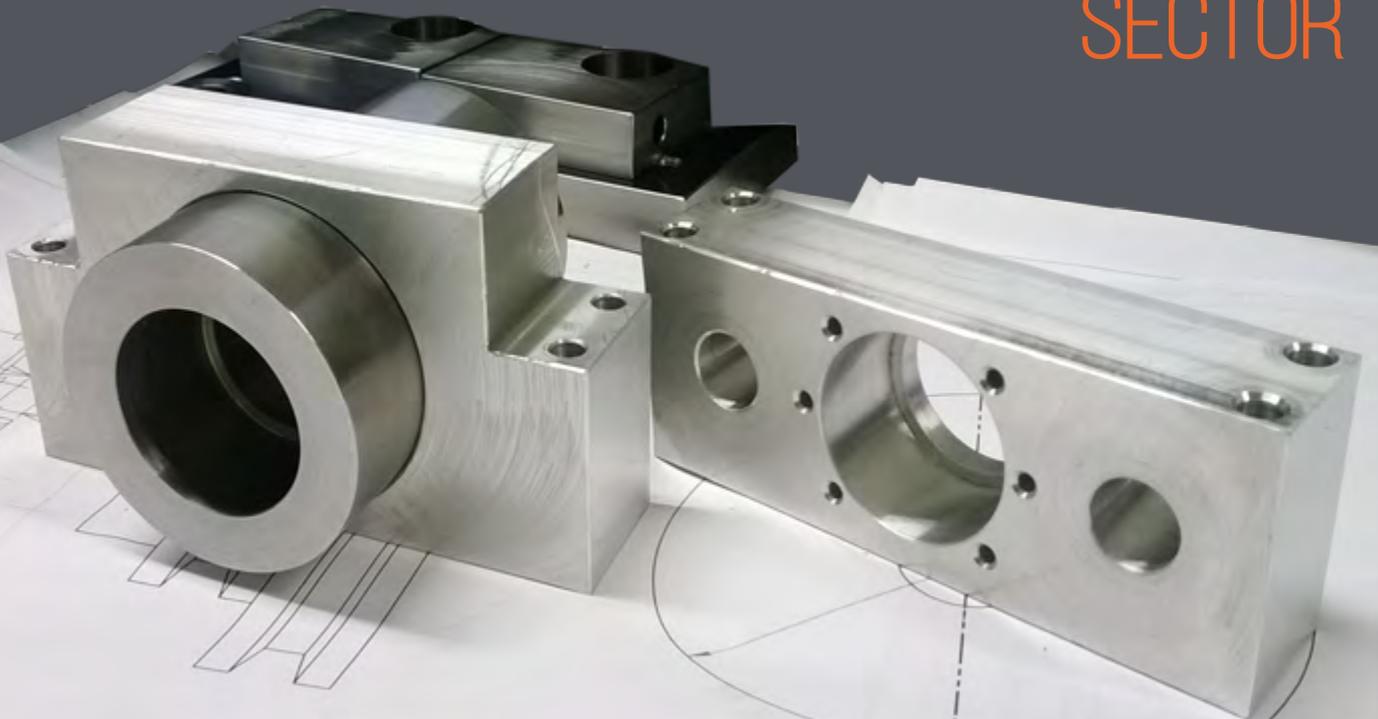




tierratech®  
ULTRASONIC CLEANING SYSTEMS



# MOULD SECTOR



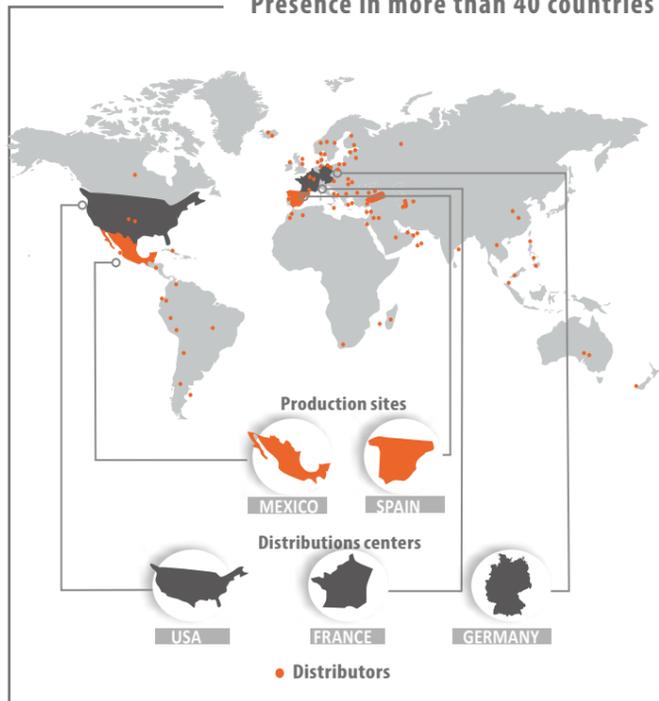
[www.tierratech.com](http://www.tierratech.com)

DIMENSIONS ARE IN MILLIMETERS  
SURFACE FINISH:  
TOLERANCES:  
LINEAR:  
RADIOUS:  
FINISH:

## COMPANY



### Presence in more than 40 countries

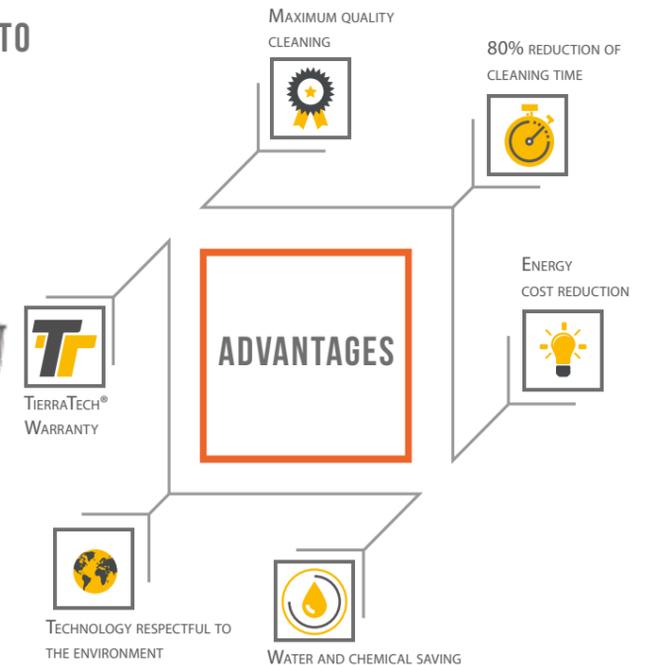


TierraTech® is a leading company in the manufacturing and commercialization of ultrasonic cleaning systems and equipment with over 20 years of experience in ultrasonic technology. Our highly qualified technical and sales team provides personalized service and advising according to the needs of each customer. You will get the most advanced and efficient ultrasonic cleaning technology at your facility with immediate delivery for our standard range. We provide solutions thanks to the permanent work of our efficient R+D+I team on new technologies and applications around the ultrasonic cleaning, they incorporate 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.

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## INTEGRATION OF ULTRASONIC EQUIPMENT INTO MOULD SECTOR



Ultrasonic cleaning has been established over the last few years as the best cleaning system in the field of the mould industry comprising the production, renovation and maintenance of utensils and machinery, eliminating any dirt and inlays in tools and productive lines.

Residues adhering to the moulds and tools affect the quality of the final product, make it difficult to extract and maintain tolerances in the parts, and thus increase production waste.

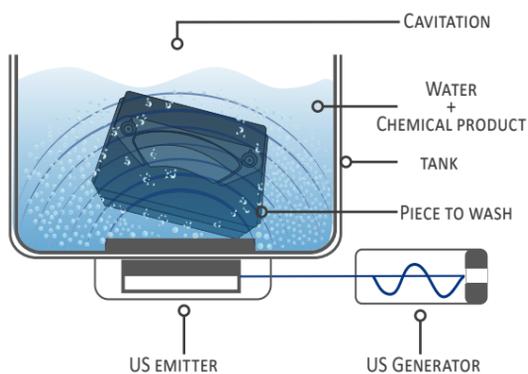
Ultrasonic cleaning systems are used for cleaning injection moulds, injectors and manufactured components. With this method, the dirt that is agglutinated by the surfaces and mould hollows where we can find, oils, dust, waste gases, etc., including rust and residues of material such as zamak, aluminum, brass and all kinds of plastics and rubbers is completely removed.

TierraTech® offers ultrasonic cleaning equipment with a wide variety of capacities, specially designed for cleaning moulds of any size and weight using a combination of ultrasonics and a proportion of detergent.

Cleaning is much superior to traditional methods (manual scraping, chemical agents, cryogenic cleaning, pressure water, laser ...), being a guarantee in maintenance of equipment and tools in an industry with such high precision requirements.

## ULTRASONIC CLEANING

Fast Effective Ecological



The ultrasonic cleaning system is the most efficient to achieve optimal results in cleaning all types of tools and elements of the mould sector.

A generator and transformer modify the electric current in high-frequency (ultrasound) waves that generate vibrations. Due to the working frequency and density of the liquid, continuous depressions and overpressions form, appearing and disappearing in a matter of microseconds throughout the liquid producing a micro brushing that acts around any element that is introduced.

Dirt is removed from the surface of submerged parts, even at the hardest-to-reach points. Ultrasonic cleaning, degreasing and descaling offers cleaning quality as advantages, especially with delicate or difficult parts and lower costs, due to savings in washing times.



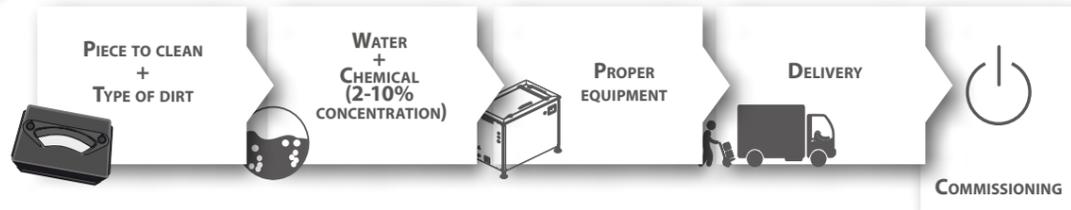
### SOME OF OUR CUSTOMERS





THE MOULD SECTOR FINDS IN OUR ULTRASONIC CLEANING EQUIPMENT THE MOST CONVENIENT OPTION FOR MAINTENANCE AND IMPROVEMENT IN ANY PRODUCTION PROCESS AND, AT THE SAME TIME, SAVING LARGE AMOUNTS OF PRODUCTIVE TIME ACHIEVING THE BEST RESULT.

### WHAT CLEANING EQUIPMENT DO I NEED?



### STANDARD EQUIPMENT

The wide range of standard TierraTech® equipment has a wide variety of equipment of different capacities that perfectly adapt to the demands of the mould sector and its parts to be cleaned. They can be complemented with pneumatic lifting platform to facilitate loading and unloading, filtration systems, oil separation and water treatment, among others.



### SPECIAL EQUIPMENT

TierraTech® can meet the special needs of its customers by manufacturing customized equipment, special measures, with different number of vats (or one, or more vats) depending on the treatments that are necessary. Loading/unloading and transport systems can be both manual and automatic, porch carts or x/y transfers.



WE DESIGN TO SUIT EACH CUSTOMER THE SUPPORT STRUCTURES FOR WASHING PARTS, WHICH CAN BE AVAILABLE IN BASKETS, SPECIAL RACKS AND RACKS WITH THE POSSIBILITY OF BATTING, TILTING OR ROTATING SYSTEMS.

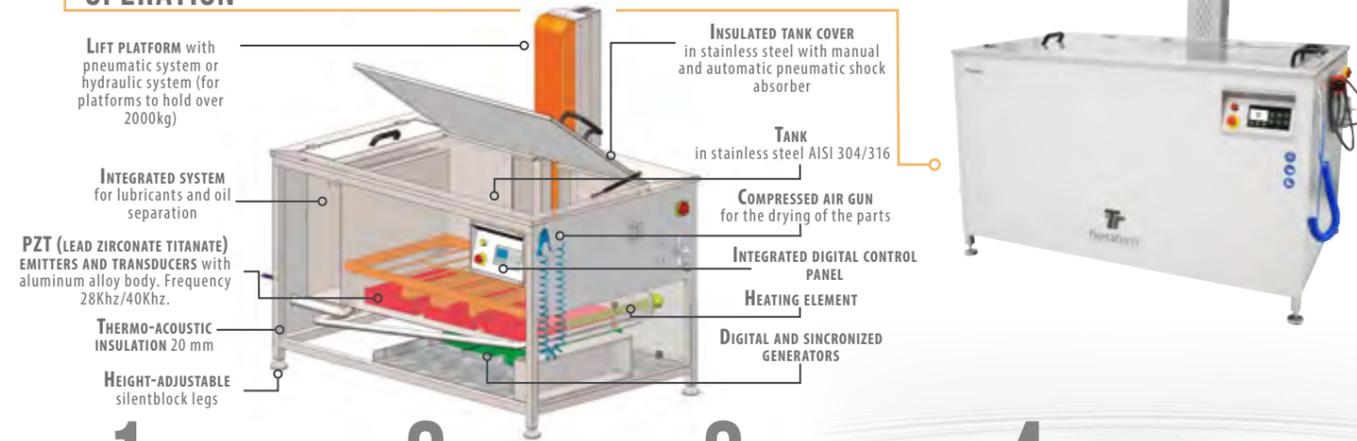
### STANDARD EQUIPMENT MOULD SECTOR

TierraTech® standard equipment is designed to provide the most efficient ultrasonic cleaning with the lowest operating costs. We apply in our standard machines the technical solutions developed in our large projects guaranteeing the best cleaning result.



MODEL	VOLUME	INTERNAL DIMENSIONS	USABLE DIMENSIONS	EXTERNAL DIMENSIONS	WEIGHT	ULTRASONIC PEAK POWER	MAX. LOAD LIFT-PLATFORM
TT-30	30 liters	550x300x250 mm	500x250x175 mm	720x420 mm	34 kg	600Wp (1.200 Wp-p)	
TT-50	50 liters	600x300x300 mm	550x250x225 mm	775x420 mm	40 kg	700Wp (1.400 Wp-p)	
TT-75	75 liters	700x350x400 mm	650x300x290 mm	1075x575 mm	71 kg	800Wp (1.600 Wp-p)	
TT-75N	75 liters	650x390x470 mm	620x325x270 mm	1260x730 mm	130 kg	800Wp (1.600 Wp-p)	30 kg
TT-150N	150 liters	700x480x540 mm	670x415x345 mm	1355x825 mm	175 kg	1700Wp (3.400Wp-p)	60 kg
TT-300N	300 liters	900x615x640 mm	860x525x390 mm	1620x1020 mm	275 kg	3.400Wp (6.800 Wp-p)	250 kg
TT-400N	400 liters	1100x615x690 mm	1060x525x440 mm	1820x1020 mm	320 kg	3.400Wp (6.800 Wp-p)	250 kg
TT-600N	600 liters	1300x735x665 mm	1230x650x430 mm	2050x1200 mm	350 kg	5.100Wp (10.200 Wp-p)	350 kg
TT-1000N	1.000 liters	1500x810x875 mm	1410x720x580 mm	2915x1395 mm	500kg	6.800Wp (13.600Wp-p)	500 kg
TT-2000N	1.250 liters	1750x1010x1080 mm	1650x910x790 mm	3300x1660 mm	3500 kg	10.200Wp (20.400 Wp-p)	1000 kg
TT-3000N	3.000 liters	2050x1200x1205 mm	1930x1080x900 mm	3675x1800 mm	1850 kg	13.600Wp (27.200 Wp-p)	1500 kg
TT-4000N	4.000 liters	2400x1500x1260 mm	2280x1380x900 mm	4165x2260 mm	2800 kg	20.400Wp (40.800 Wp-p)	1500 kg
TT-8000N	8.000 liters	3000x2000x1495 mm	2800x1800x1175 mm	4000x2640 mm	3500 kg	34.000Wp (68.000 Wp-p)	

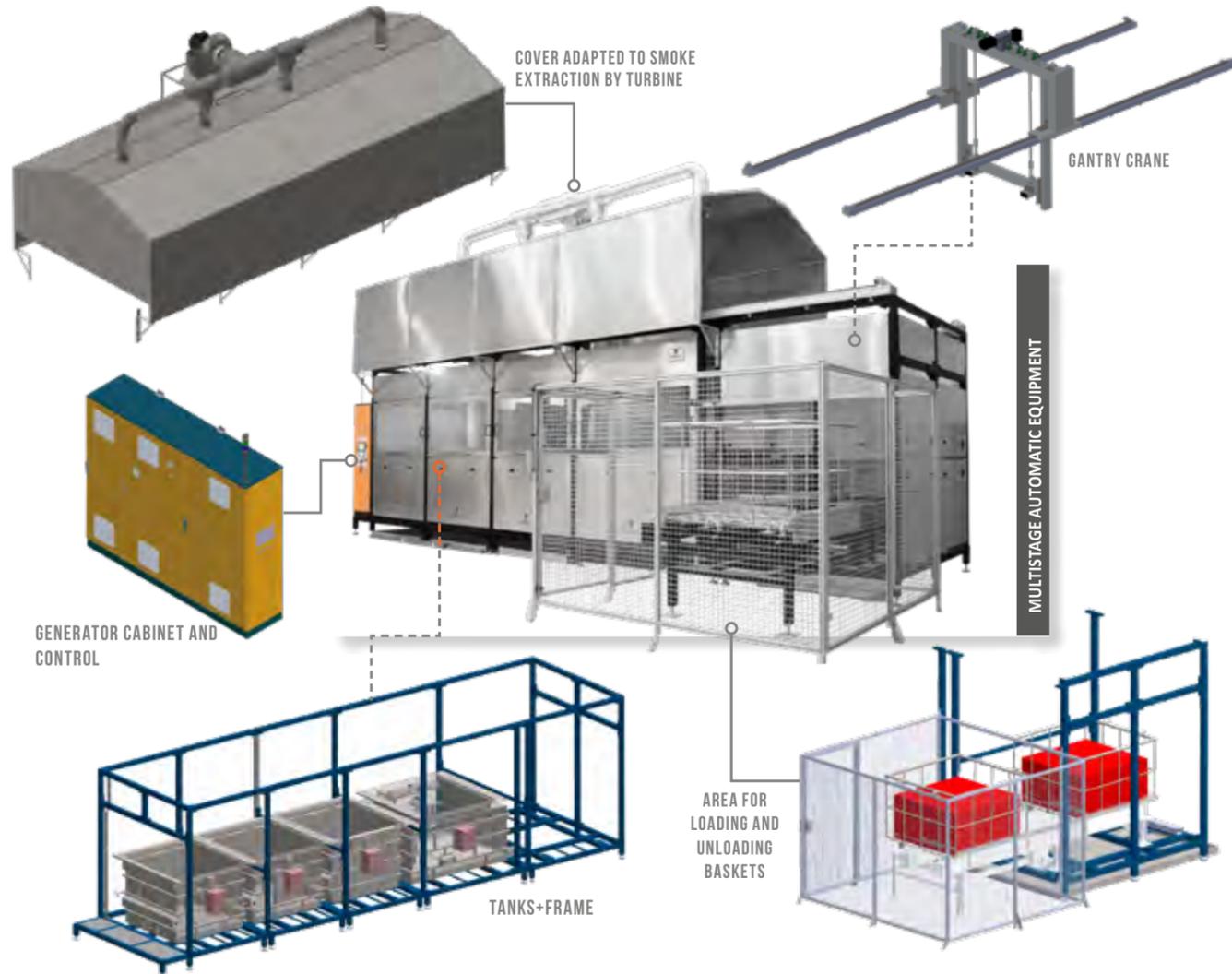
### OPERATION



- 1 The tank is filled with water and chemical product (standard concentration of 2-10%) and heated to 70-85°C
- 2 The parts are placed on the lift-platform or on the grid at the bottom of the tank. They are submerged into the bath.
- 3 This automatic cleaning process can take from some minutes to some hours depending on the cleaning application.
- 4 Finally, the parts are taken out of the bath.

## SPECIAL EQUIPMENT MOULD SECTOR

TierraTech® has custom-made equipment aimed at special cleaning needs, either because of the characteristics of the parts or by the requirements in their manufacturing process



ULTRASONIC CLEANING SYSTEM

## ULTRASONIC CLEANING



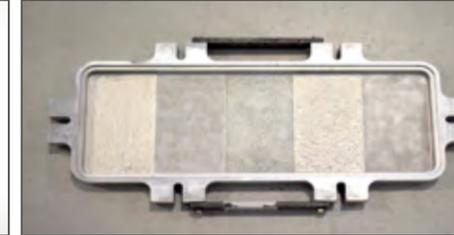
Railway sector mould



Mould for plastic parts



Mould for paper, food sector



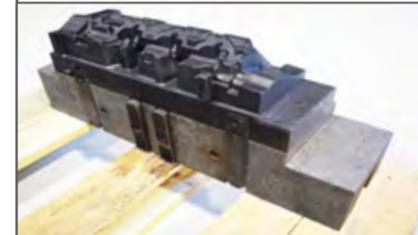
Automotive sector mould



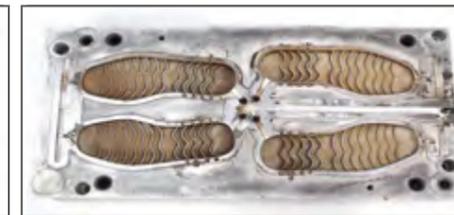
Plastic moulds for cosmetic sector



Plastic mould Bush



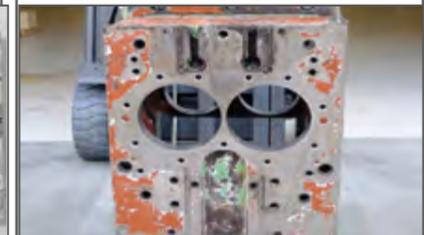
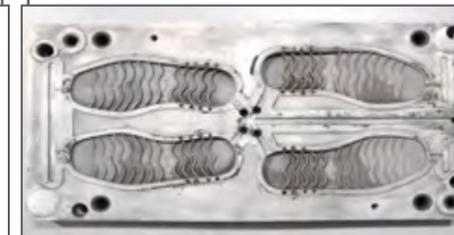
Industrial steel mould



Rubber parts mould



Mould metallurgy parts



Contact and tell us your cleaning needs

## ULTRASONIC CLEANING SYSTEMS

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