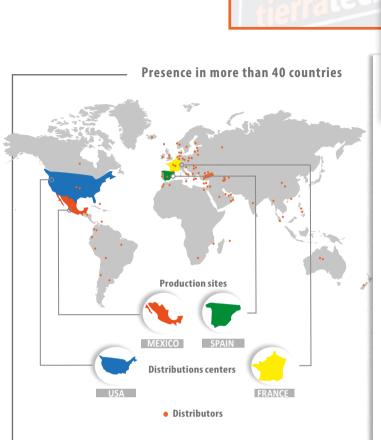






IMPLEMENTATION OF ULTRASONIC CLEANING SYSTEMS IN THE FOOD INDUSTRY



COMPANY



TierraTech<sup>®</sup> is a leading company in the manufacturing and commercialization of ultrasonic cleaning systems and equipment with over 18 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.

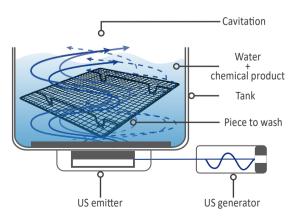
We provide solutions thanks to the permanent work of our efficient R+D+I team on new technologies and applications around the ultrasonic cleaning, they incorporate state-of-the-art components and materials with an agile design for the realization of custom-made projects.

TierraTech<sup>®</sup> 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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# ULTRASONIC CLEANING



Fast

Effective

Ecological

The ultrasonic cleaning system is the most efficient to achieve optimal results in cleaning food waste in all types of tools and elements of the sector such as trays, grilles, hooks, utensils..., even components of production machinery.

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-toreach 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.



Ultrasonic cleaning has been established over the last few years as the best cleaning system in the field of the food industry comprising the production, renovation and maintenance of utensils and machinery, eliminating any dirt and inlays in tools and productive lines. Ultrasonic cleaning systems are used both for cleaning grilles, burners, hooks, molds, baking trays, production tapes, filters, machinery components and other elements of the food sector, as well as for even certain foods (snails, tiger nuts , truffles...).

TierraTech® offers ultrasonic cleaning systems with a wide variety of capacities, specially designed for cleaning parts of any size and weight. These parts are thoroughly cleaned of oil residues, greased dirt, traces and limestone inlays among others, using a combination of ultrasound and a proportion of non-harmful detergent.

With the ultrasonic cleaning system we completely remove dirt without accommodating the possibility of microbial contamination within the processes or utensils implemented in the food industry. A cleaning is achieved far superior to traditional methods, being a guarantee in the maintenance of equipment and tools in an industry with such high hygiene requirements.





The food sector finds in our ultrasonic cleaning equipment the most suitable option for the maintenance and improvement of the food production process and, in turn, saving large amounts of uptime achieving the best hygiene and food safety on the market.

## STANDARD EQUIPMENT

The wide range of standard TierraTech <sup>®</sup> equipment has a wide variety of equipment of different capacities that perfectly adapt to the demands of the food 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.

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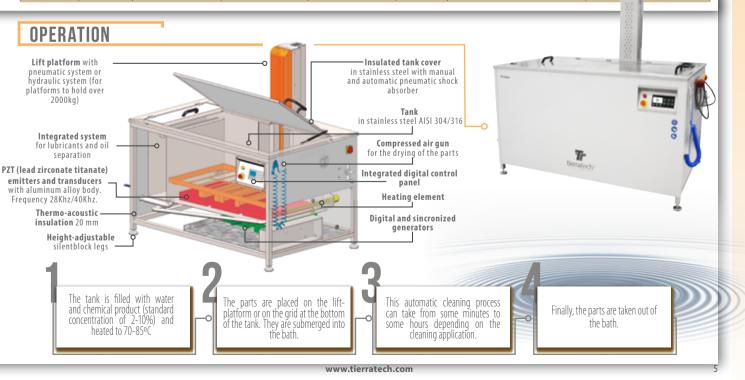


## STANDARD EQUIPMENT FOOD SECTOR

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.



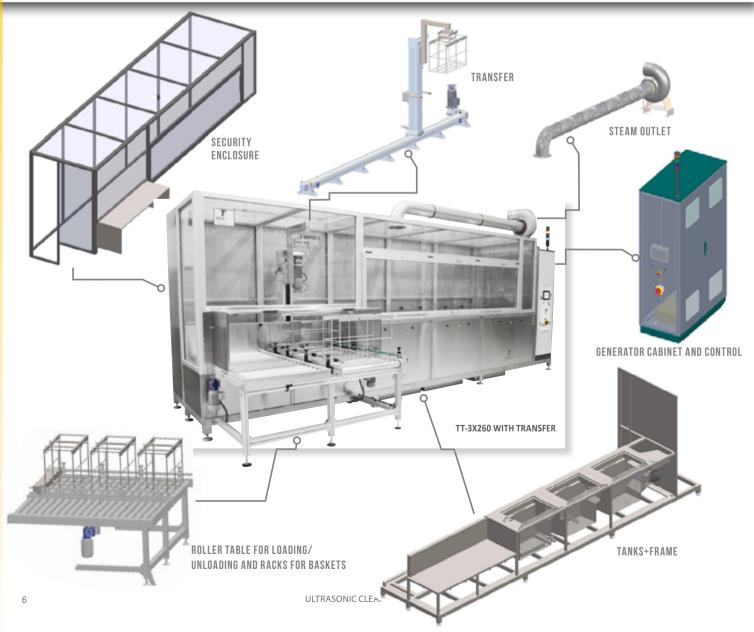
MODEL	VOLUME	INTERNAL DIMENSIONS	USABLE DIMENSIONS	EXTERNAL DIMENSIONS	WEIGHT	ULTRASONIC PEAK POWER	MAX. LOAD LIFT-PLATFORM
TT-30	30 liters	550x300x250 mm	500x250x175 mm	730x420 mm	34 kg	600Wp (1.200 Wp-p)	
TT-50	50 liters	600x300x300 mm	550x250x225 mm	790x420 mm	40 kg	700Wp (1.400 Wp-p)	
TT-75	75 liters	700x350x400 mm	650x300x290 mm	960x550 mm	71 kg	800Wp (1.600 Wp-p)	
TT-75N	75 liters	650x390x470 mm	620x325x270 mm	1170x735 mm	130 kg	800Wp (1.600 Wp-p)	30 kg
TT-150N	150 liters	700x480X540 mm	670X420X345 mm	1260X825 mm	175 kg	1700Wp (3.400Wp-p)	60 kg
TT-300N	300 liters	900x615x640 mm	860x525x390 mm	1520x1020 mm	275 kg	3.400Wp (6.800 Wp-p)	250 kg
TT-400N	400 liters	1100x615x690 mm	1060x525x440 mm	1720x1020 mm	320 kg	3.400Wp (6.800 Wp-p)	250 kg
TT-600N	600 liters	1300x735x665 mm	1230x650x430 mm	1940x1200 mm	350 kg	5.100Wp (10.200 Wp-p)	350 kg
TT-1000N	1.000 liters	1500x810x875 mm	1410x720x585 mm	2810x1395 mm	550 kg	6.800Wp (13.600Wp-p)	500 kg
TT-2000N	1.250 liters	1750x1010x1080 mm	1650x910x790 mm	3165x1675 mm	3500 kg	10.200Wp (20.400 Wp-p)	1000 kg
TT-3000N	3.000 liters	2050x1200x1205 mm	1930x1080x900 mm	3600x1795 mm	1850 kg	13.600Wp (27.200 Wp-p)	1500 kg
TT-4000N	4.000 liters	2400x1500x1260 mm	2280x1380x900 mm	4090x2260 mm	2800 kg	20.400Wp (40.800 Wp-p)	1500 kg
TT-8000N	8.000 liters	3000x2000x1495 mm	2800x1800x1175 mm	3910x2570 mm	3500 kg	34.000Wp (68.000 Wp-p)	_



# SPECIAL EQUIPMENT FOOD SECTOR

TierraTech<sup>®</sup> 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: BEFORE & AFTER





METAL BAKING TRAY



BAKERY MOLDS



MEAT SECTOR HOOKS



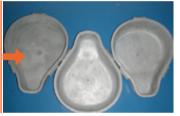


CUTTING BLADES



CONTAINER WITH CATERING CROCKERY





HAM SAUSAGE MOLDS



SNAILS

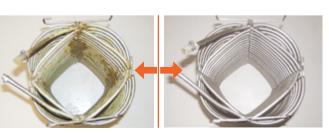




**SLAUGHTERHOUSE GLOVES** 



VENDING MACHINE PART

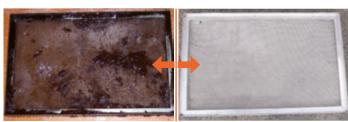


**COOLERS BREWING INDUSTRY** 





**CONVEYOR BELT** 



FILTERS

Check your cleaning requirements with us

# TIERRATECH<sup>®</sup> ULTRASONIC CLEANING SYSTEMS

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