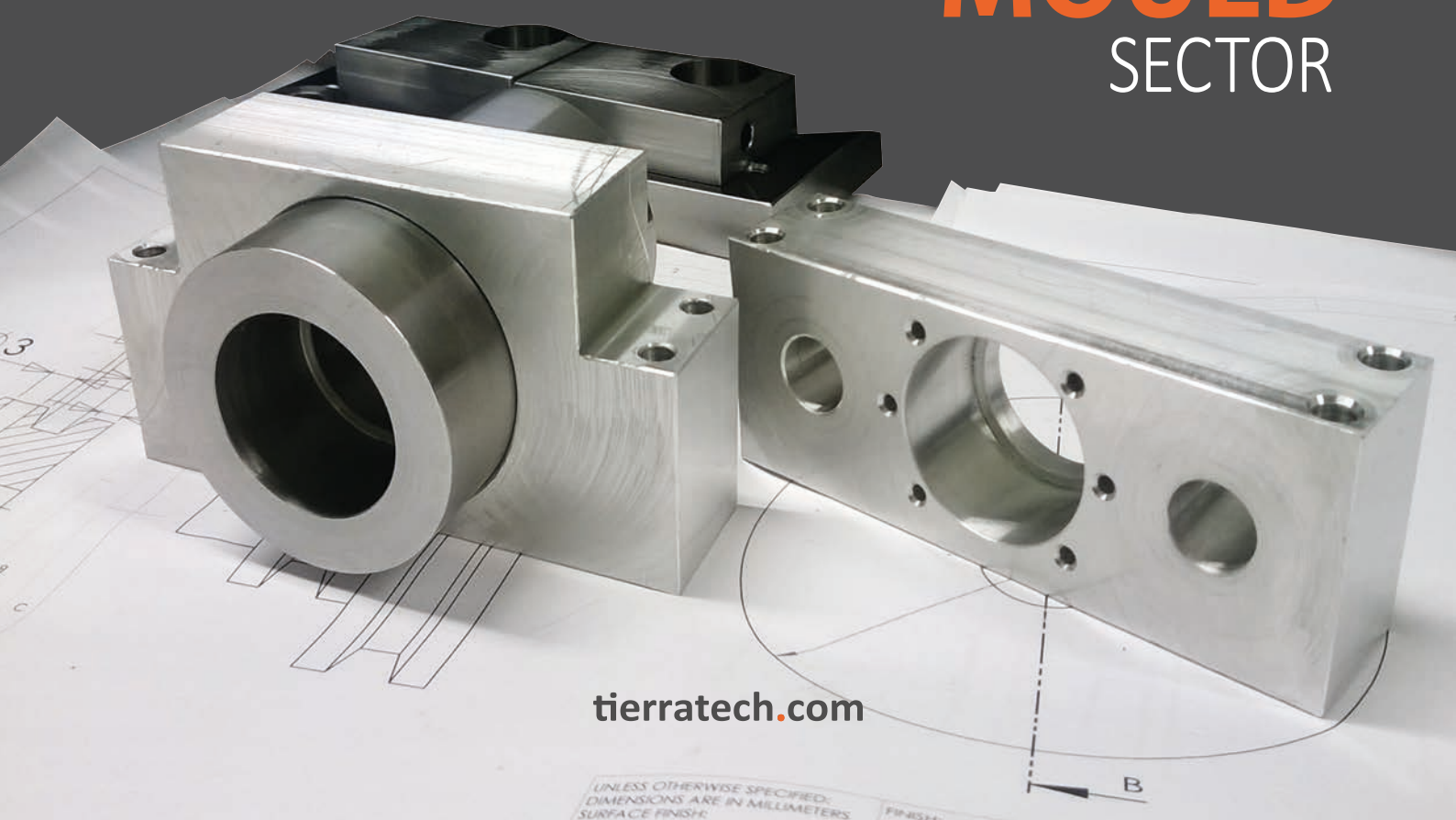
tierratech®
ULTRASONIC CLEANING SYSTEMS



MOULD
SECTOR

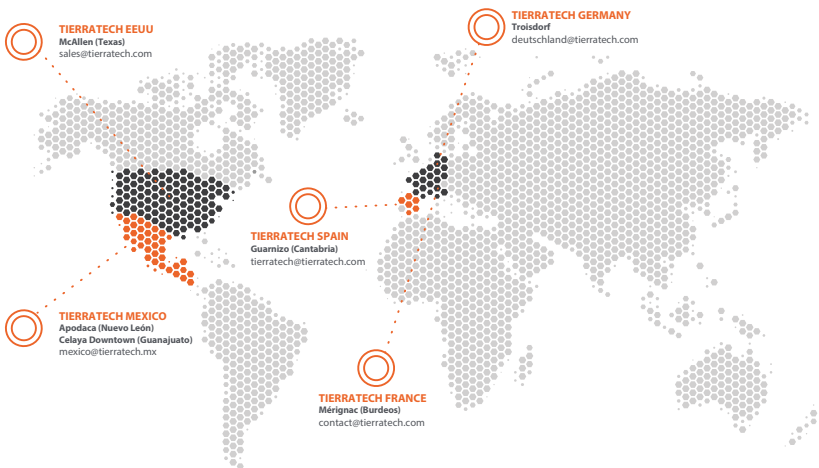


tierratech.com

THE COMPANY



Presence in more than 40 countries



© TierraTech 2026

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

Our highly qualified technical and sales team provides personalised 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.

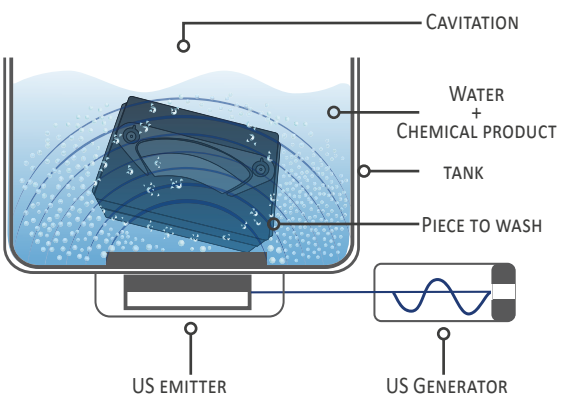
We provide solutions thanks to the permanent work of our efficient R+D+I team on new technologies and applications around the ultrasonic cleaning, they incorporate state-of-the-art components and materials with an agile design for the realisation of custom-made projects.

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. In addition, our design, manufacturing and production systems have been certified ISO 14001:2015 in 2023, complying with a set of standards linked to the management of environmental systems, which are related to protection, prevention, pollution and socio-economic needs.

ISO 14001:2015 ISO 9001:2015 TRAINING PROGRAM SUSTAINABLE SUPPLIERS

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.

INTEGRATION OF ULTRASONIC EQUIPMENT INTO MOULD SECTOR



TT-2X150N

ADVANTAGES

- Maximum quality cleaning
- 80% reduction of cleaning time
- Energy cost reduction
- TierraTech® Warranty
- Eco-friendly Technology
- Water and chemical saving

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 tools 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, making 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 harmless 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.





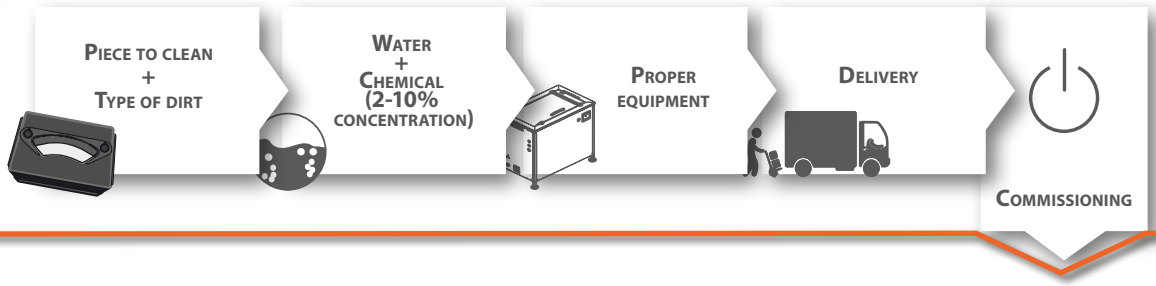


SOME OF OUR CUSTOMERS

ALFA mim-tech · SAINT-GOBAIN · P&G · HUTCHINSON · NISSAN · evco · FLEXTRONICS · FREUDENBERG · GKN Driveline · GLN · EUGSTER/FRISMAG · IcerRail · INDAUX · INOVEPLASTIKA · KARTESIS · plasticos durex · Grosfillex · niled · Normagrup · Plastic Ingenuity · PoliAstur · PCB · eckermann · H&T PRESSPART · SabriScan · AMD · SIMPLASTIC · VP vapesol · CPR · Madelmold · Gates

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 great variety of equipment of different capacities that perfectly adapt to the cleaning demands of the mould sector. They can be complemented with pneumatic lifting platform to facilitate loading and unloading, filtration systems, oil separation and water treatment, among others.



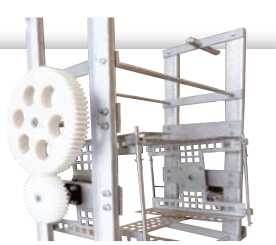
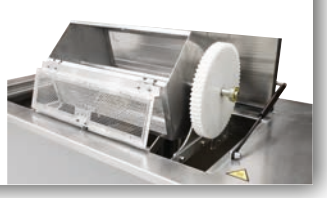
SPECIAL EQUIPMENT

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



Proper cleaning



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.

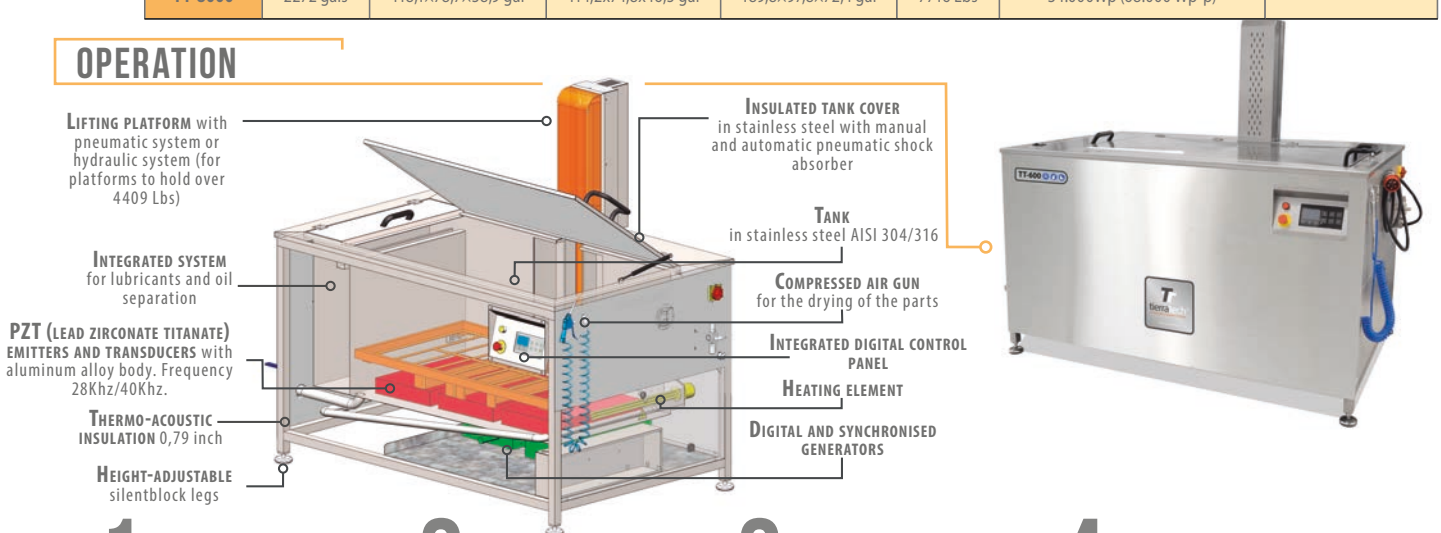
STANDARD EQUIPMENT MOULD SECTOR

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	7,9 gals	21,7×11,8×9,8 gal	19,7x9,8x6,9 gal	29,1×17,7×20,5 gal	75 Lbs	600Wp (1.200 Wp-p)	
TT-50	13 gals	23,6×11,8×11,8 gal	21,7x9,8x8,9 gal	31,1×17,7×22,4 gal	88 Lbs	700Wp (1.400 Wp-p)	
TT-75	20 gals	27,6x13,8×15,7 gal	25,6x11,8x11,4 gal	42,3×22,6×35,4 gal	157 Lbs	800Wp (1.600 Wp-p)	
TT-75N	29 gals	25,6×15,4×18,5 gal	24,4x12,8x10,2 gal	49,6×28,7×36,4 gal	287 Lbs	1000Wp (2.000 Wp-p)	66 Lbs
TT-150N	44 gals	27,6×18,9×21,3 gal	26,4x16,3x13,0 gal	53,3×32,5×37,2 gal	331 Lbs	1700Wp (3.400Wp-p)	132 Lbs
TT-300N	85 gals	35,4×24,2×25,2 gal	33,9x20,5x15,0 gal	63,8×40,2×41,1 gal	606 Lbs	3.000Wp (6.000 Wp-p)	551 Lbs
TT-400N	111 gals	43,3×24,2×27,2 gal	41,7x20,5x16,9 gal	71,7×40,2×43,1 gal	705 Lbs	3.400Wp (6.800 Wp-p)	551 Lbs
TT-600N	159 gals	51,2×28,9×26,2 gal	48,4x25,6x16,9 gal	80,7×47,2×42,1 gal	1102 Lbs	5.100Wp (10.200 Wp-p)	772 Lbs
TT-1000N	264 gals	59,1×31,9×34,4 gal	55,5x28,3x22,8 gal	114,8×54,9×43,3 gal	1709 Lbs	6.800Wp (13.600Wp-p)	1102 Lbs
TT-2000N	502 gals	68,9×39,8×42,5 gal	65,0x35,8x31,5 gal	129,9×65,4×53,1 gal	2756 Lbs	10.200Wp (20.400 Wp-p)	1653 Lbs
TT-3000N	753 gals	80,7×47,2×47,4 gal	76,0x42,5x35,4 gal	147,2×72,0×57,9 gal	4079 Lbs	13.600Wp (27.200 Wp-p)	3307 Lbs
TT-4000N	1110 gals	94,5×59,1×49,6 gal	89,8x54,3x35,4 gal	164,0×89,0×61,4 gal	6173 Lbs	20.400Wp (40.800 Wp-p)	4409 Lbs
TT-8000	2272 gals	118,1×78,7×58,9 gal	114,2x74,8x46,5 gal	189,8×97,8×72,4 gal	7716 Lbs	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 158–185 °F

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.

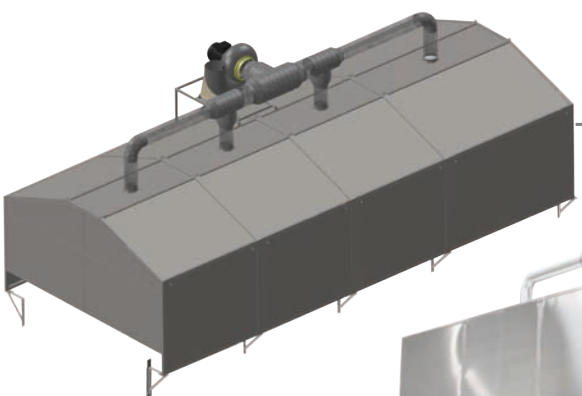
3 This automatic cleaning process can take from some minutes to some hours depending on the cleaning application.

4 Finally, the parts are taken out of the bath.

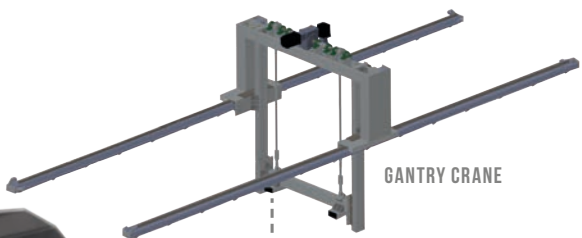
SPECIAL EQUIPMENT MOULD SECTOR

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

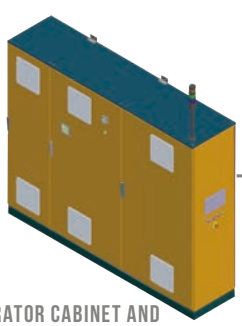




COVER ADAPTED TO SMOKE EXTRACTION BY TURBINE



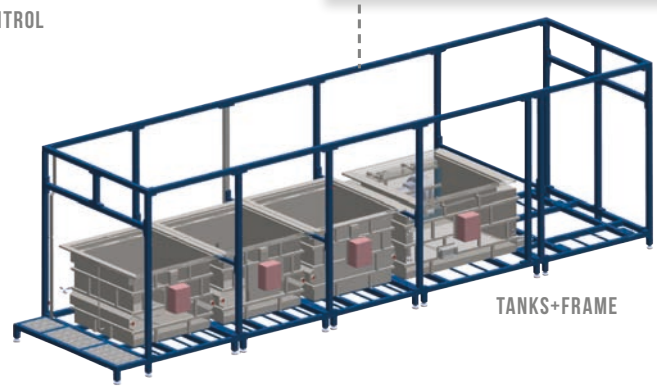
GANTRY CRANE



GENERATOR CABINET AND CONTROL

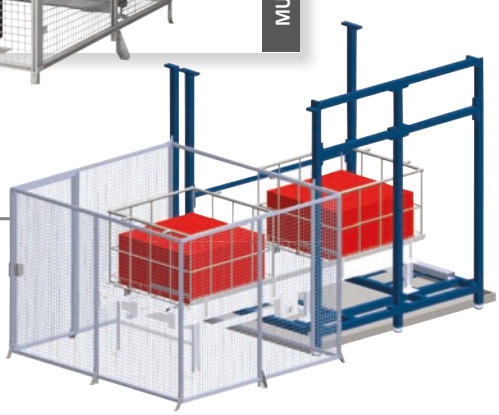


MULTISTAGE AUTOMATIC EQUIPMENT



TANKS+FRAME

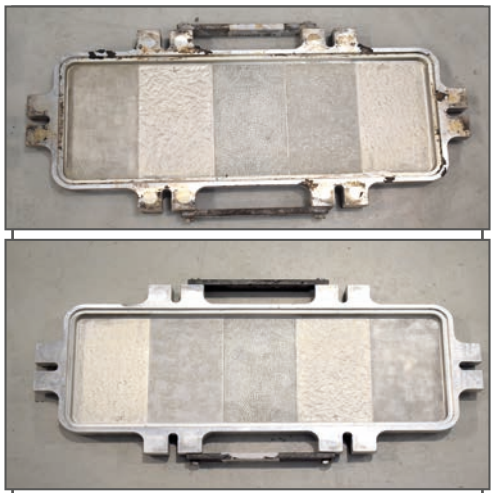
AREA FOR BASKETS LOADING AND UNLOADING



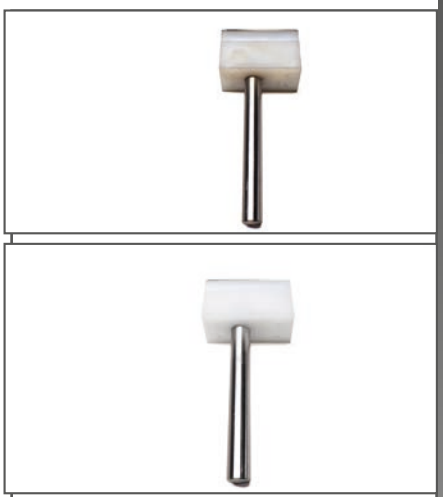
ULTRASONIC CLEANING



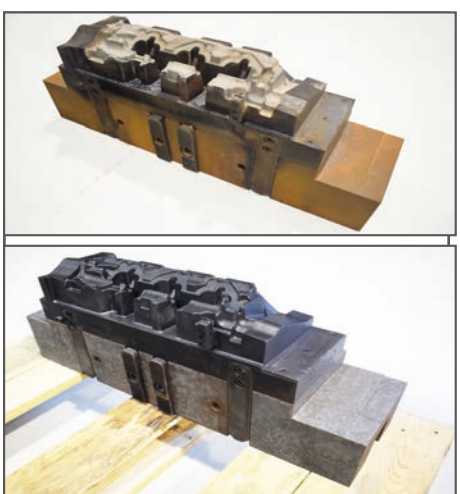
Railway sector mould



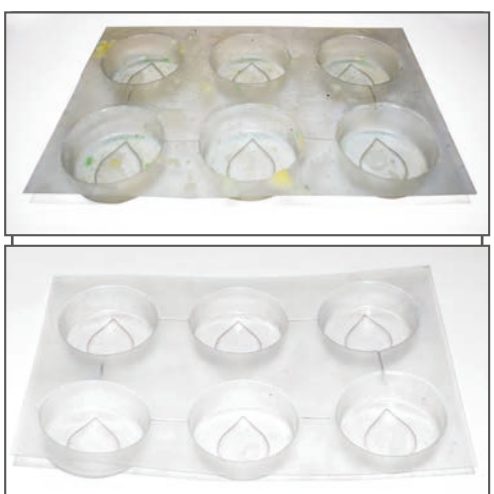
Mould for plastic parts



Mould for paper, food sector



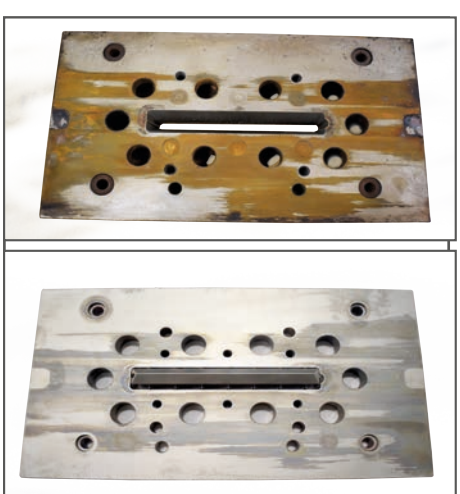
Automotive sector mould



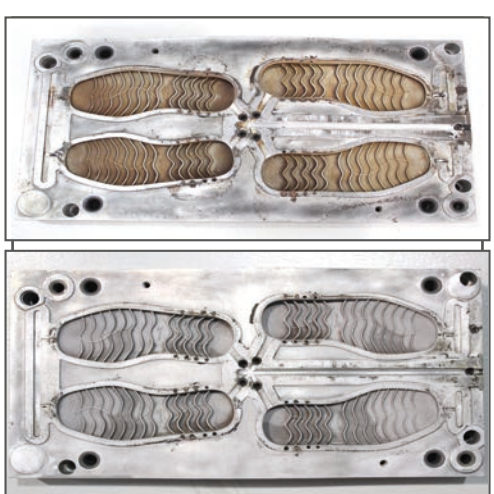
Plastic moulds for cosmetic sector



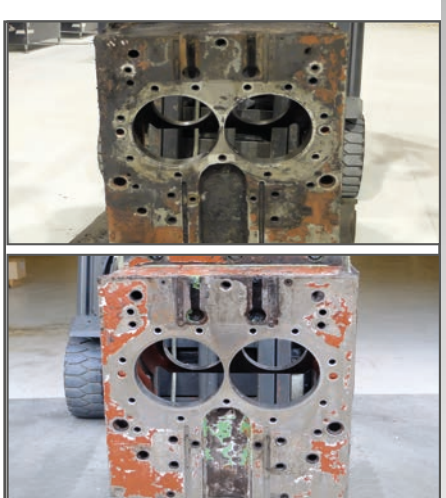
Plastic mould Bush



Industrial steel mould



Rubber parts mould



metallurgy parts mould

Contact and tell us your cleaning needs

TIERRATECH® ULTRASONIC CLEANING SYSTEMS

Spain
Parque empresarial Morero Nave 27
39611 Guarnizo, Cantabria (España)
Tel (+34) 942 269 543
Fax (+34) 942 269 544
tierratech@tierratech.com

USA
1111 E WHITEWING Ave
78501 McAllen, Texas (USA)
Tel. +1 (956) 584-2277
sales@tierratech.com

Mexico
Avda. Martell 550. Parque Industrial Martell
66637 Apodaca, Nuevo León (México)
Tel (+52) 81 1095 65 67
Tel (+52) 81 1095 65 78
mexico@tierratech.mx

France
Z.I. Activité St. Exupéry, 17 Rue des Genêts
33700 Mérignac (Francia)
Tel (+33) (0)5 56 24 65 49
Fax (+33) (0)5 56 24 67 14
contact@tierratech.com

Germany
Junkersring 52
53844 Troisdorf (Alemania)
Tel (+49) (0) 224 184 547 76
deutschland@tierratech.com

tierratech.com