



FOUNDRY SOLUTIONS
& Metallurgical Services Inc.

Vibrating Machinery & Installations

Furnace chargers

Automated ferroalloy installations
(primary and refining)

Vibrating machinery for automatic
moulding lines: vertical and horizontal

Vibrating machinery for foundries using
semi-automatic or manual processes

Vibrating machinery for non-ferrous
foundries

Vibrating machinery for steelworks

Electric and pneumatic vibrators



Ferrous and non-ferrous foundries-installations







Vibrotech Engineering S.L. is a Spanish company whose main activity is the design and manufacture of vibrating machinery and different types of installations to be used in the transport and selection of solid materials.

The company is formed by a team of professionals, with a wide experience in the design and manufacture of vibrating machinery and is at the disposal of its customers to meet their needs and adapt to their production demands.

The more than 20 years of experience, always in close contact with the needs of the general industry as well as our commitment to research and to the development of new solutions, enable us to lead projects in various industrial sectors.

Vibrotech Engineering S.L., has offices in Mexico, San Sebastian, Bilbao, Madrid, Barcelona, Seville and Canary Islands with a wide commercial network in order to meet the needs of our customers, both commercially and technically.

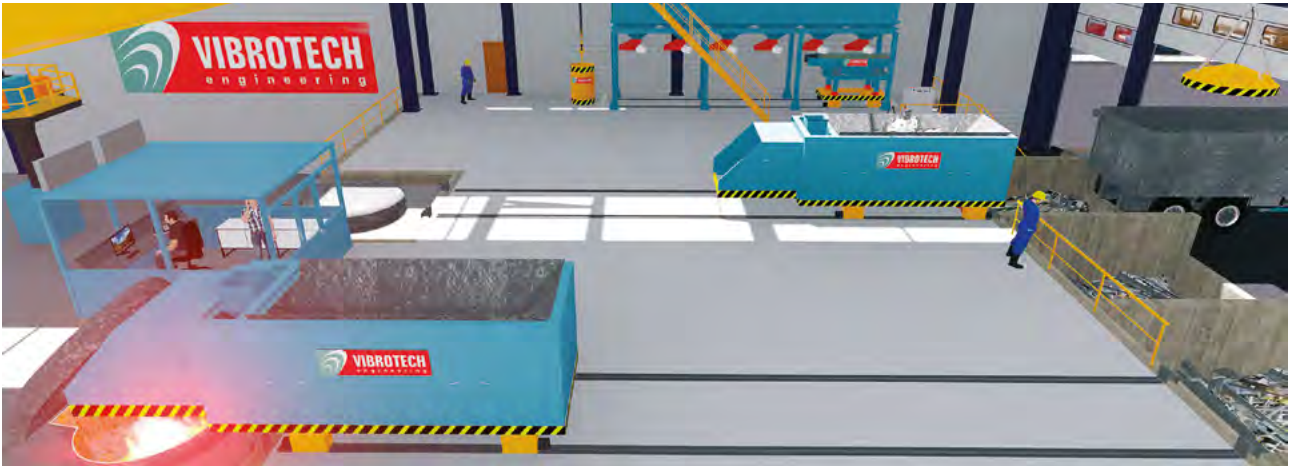
Our Technical Office is firmly committed of promoting R&D&I in the continuous search for new and better solutions.

Vibrotech Engineering, S.L., works with a firm commitment to expansion into international markets and continuous improvement in all its departments.

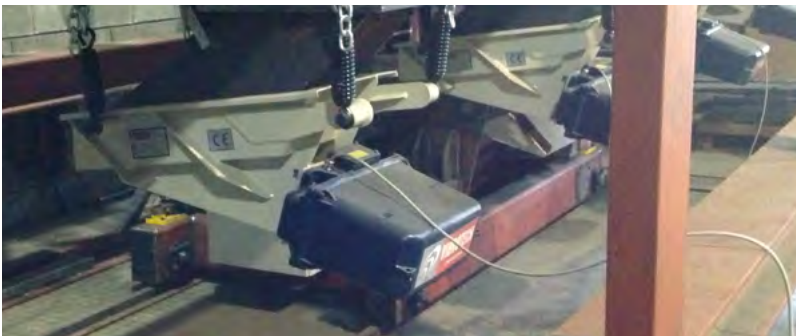


Melting deck platform

Furnace chargers and ferroalloys installations



Melting platform



Ferroalloys installations



Induction furnace charger

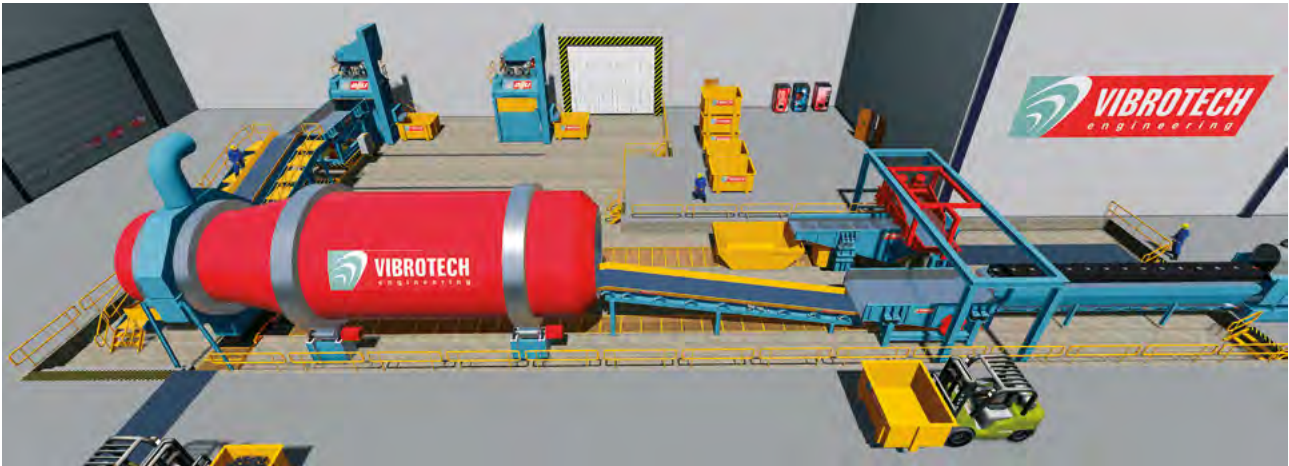
Furnace charger

- Adapted to all kind of furnaces.
- Unbalanced vibrating motors or resonances systems.
- Single or double movement to charge several furnaces.
- Designed with the highest demands regarding robustness and isolation.
- Safety devices: acoustic and light signals, safety protection during the charger movement, antisplashing spout adapted to the furnace.
- Options: weighing system, hopper for ferroalloys.

Automated ferroalloy installations

- Turn-key projects.
- Adapted to the number and capacity of hoppers required.
- Possibility of connection to spectrometer.
- Discharger feeder for material extraction.
- Ferroalloys bucket adapted to unload into the charger.

Vertical and horizontal molding lines



Vibrating machine for automatic molding lines

Mold dump conveyor

- Electromechanical or resonance conveyors.
- Initial part in stainless steel and heating resistors to avoid sand adherence.
- Robust design due to mold impact.

Defective mold extractor

- Suitable for extraction of defective molds or test pieces from the line.
- Supported on a mobile frame moved by motorized wheels.
- Easily adaptable to different layouts.

Vibrotech Engineering, S.L. designs and manufactures vibrating machines from the mold dump reception until the shot blasting machine charger.

Machinery

- Mold dump conveyor.
- Defective mold extractor.
- Vibrating conveyors for pieces and sand.
- Cooling drum.
- Shake-out conveyor.
- Resonance conveyors for degating.
- Shot blasting charger.
- Resonance conveyor for sand collection under AMC and SBC.
- Sand cooler.

◀ *Mold reception*
Defective mold extractor





Vertical and horizontal molding lines (II)

Pieces and sand resonance conveyors



Shake-out conveyors

Resonance conveyors

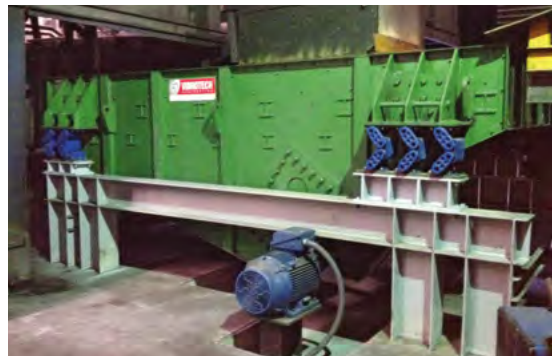
- Suitable for conveying pieces and sand.
- Suitable for degating lines.
- Cooling resonance conveyors.
- Long lengths with just one vibrating unit.
- Robust construction.

Shake-out conveyors

- Suitable for automatic vertical/horizontal molding lines.
- Unbalance motors or resonance systems.
- Different grill configurations depending on the pieces to be processed.

Resonance conveyors for sand collection below automatic AMC and SBC.

Located below the AMC and SBC mold cooling line, collects the sand that comes off the line and drive to the sand reclamation.



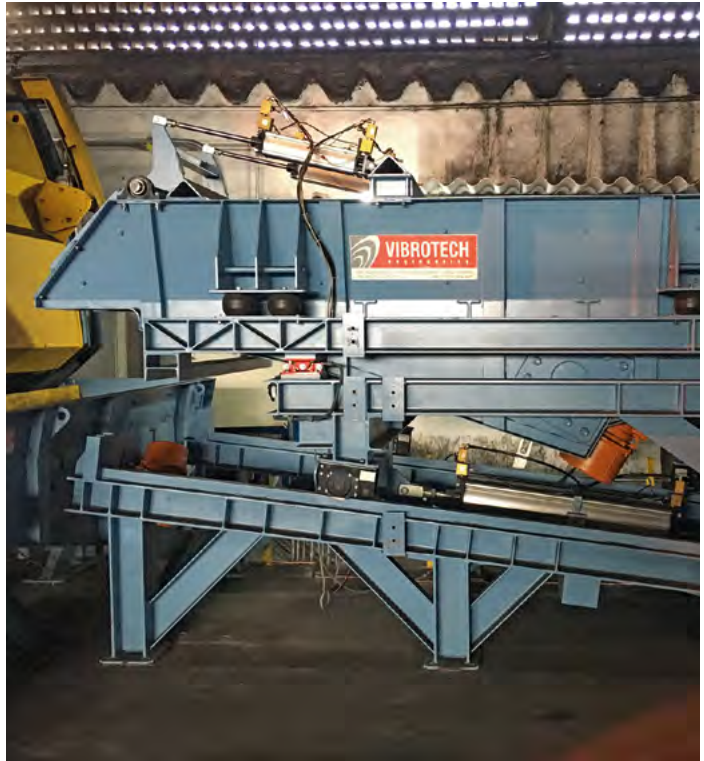
Sand collection below AMC and SBC



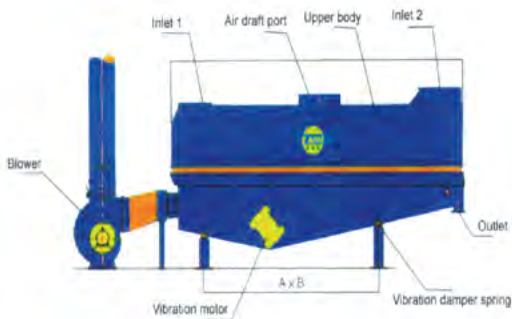
Cooling conveyor



Shot blasting chargers



Sand coolers



Sand coolers

- For green sand lines.
- Unbalance motors or resonance systems.
- Control program to obtain the maximum temperature and humidity conditions.
- Fluid-bed system for correct sand homogenization.

Shot blasting chargers

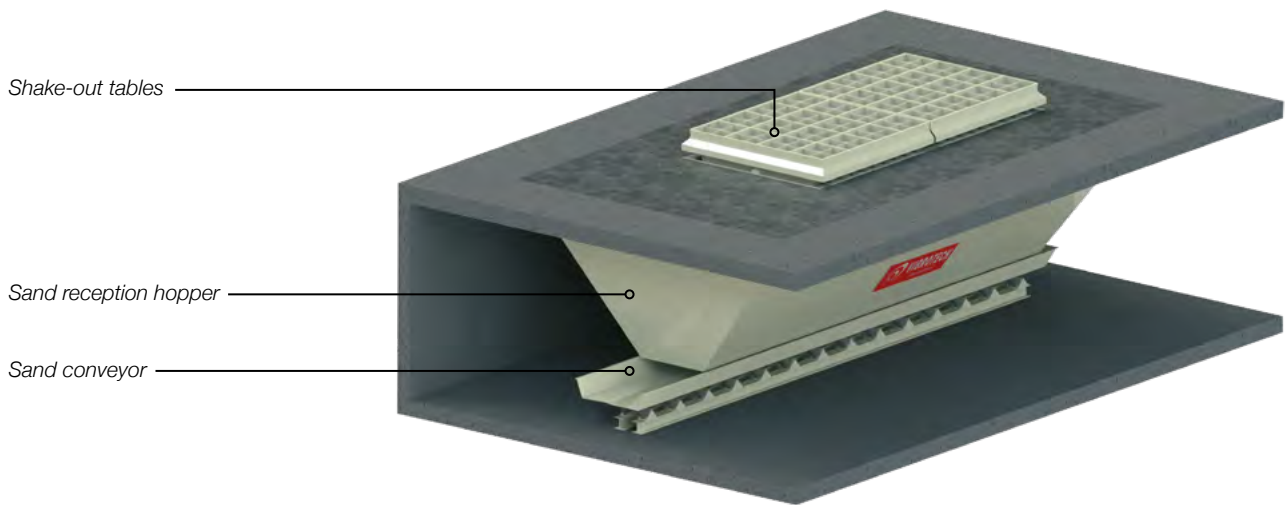
- Single or double movement to charge several shot blasting machines.
- With optional weighing cells.
- Front material retaining gate.
- Conveyors with plastic coatings for the extraction of pieces from the shot blasting machine.

Two ways conveyors





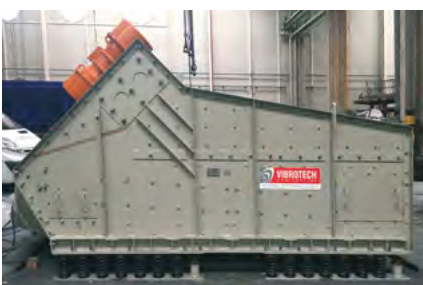
Shake-out installations



Shake-out tables



Sand vibrating conveyor



Attritions machine

Shake-out tables

- Different drives.
- Robust design.
- Different measurements depending on requirements.

Vibrating conveyors

- Resonance conveyors or electromechanical.
- Sand collection conveyors below the shake-out table to be driven to sand reclamation.

Unbalance motor driven

- Electric vibrator-driven.
- Flat tables or roller bed to carry the boxes.

Attrition vibrating machines

- It allows the separation of sand from the molding for its mechanical recovery.
- Available in different sizes depending on the flow to be processed

Vibrating machinery for non-ferrous foundries



Vibrotech Engineering, S.L., designs and manufactures all types of chargers for charging furnaces of different types and capacities: induction, rotary, reverberatory, etc.

We also produce additive storage, dosage and weighing installations.

Rotary and reverberatory furnaces

- All kind for furnaces.
- Different capacities depending on the furnace sizes.
- Single or double movement to charge several furnaces.
- Safety devices: acoustic and light signals, safety protection during the charger movement, antispashing spout adapted to the furnace.
- Options: weighing system, acoustic fairing, hopper for iron-alloys, load retaining gate, hoisting system for rotary furnaces.



Rotary furnace charger



Reverberatory furnace charger

Slugs collection resonance conveyors

Design and manufacturing of installations for the collection of slugs under the presses for re-casting.



Slugs collection conveyor



Vibrating machinery for steelworks

Machinery

- Ferroalloys installations
- Discharge feeders
 - Electromagnetic
 - Electromechanical
- Vibrating conveyors
- Screens



Electromechanical discharge feeder



Electromagnetic discharge feeder



Screen for ferroalloys / coke / lime, etc.

Scrap cleaning conveyors







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Canons pneumatiques