

Vibrating Machinery & Installations



Ferrous and non-ferrous foundries

Steelworks, forges, sheet-metal works

Quarries, mining, cement plants, aggregates

Recycling

Food industry

Glass industry

Ceramics and chemical industries





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Vibrotech Engineering S.L. is a Spanish company whose main activity is the design and manufacture of vibrating machines and installations of different types for use in the transport and selection of solid material.

The company's professional team has ample 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.

More than 50 years experience of our parent company, **Alju S.L.**, always in contact with the needs of industry, and our commitment to research and development of new solutions, enables us to undertake projects in many industrial sectors.

The **Alju Group** consists of four industrial companies. **Vibrotech Engineering S.L.** and **Alju S.L.**, located in the North of Spain, in the province of Biscay. The group also owns a company in Mexico DF, named **Alju American S.A. of C.V.**, and **AMB**, a Brazilian company located in Joinville, in the South of Brazil, in the State of Santa Catarina. All of these companies are 100% Spanish owned.

Via these two Latin-American companies, we can offer our services in the North and South American continents.

Vibrotech Engineering S.L., has delegations in San Sebastian, Bilbao, Madrid, Barcelona, Seville and the Canary Islands, with an extensive commercial network, in order to satisfy the needs of our customers on both a commercial and a technical level.

Our Technical Office is firmly committed to our **R&D&i** efforts, constantly seeking new and improved solutions.

Vibrotech Engineering, S.L. is fully committed to expansion into international markets and to continuous improvement in all departments.

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Ferrous and non-ferrous foundries

Vibrotech Engineering, S.L. manufactures vibrating machinery for all types of ferrous and non-ferrous foundries. This machinery is used in different production processes: loading scrap into furnaces, in dosing and weighing installations for production of iron alloys, conveyors for parts and sand, shake-out systems, loading of shot blasting machinery, recuperation of sand, etc.



Natural frequency conveyor for pieces and sand

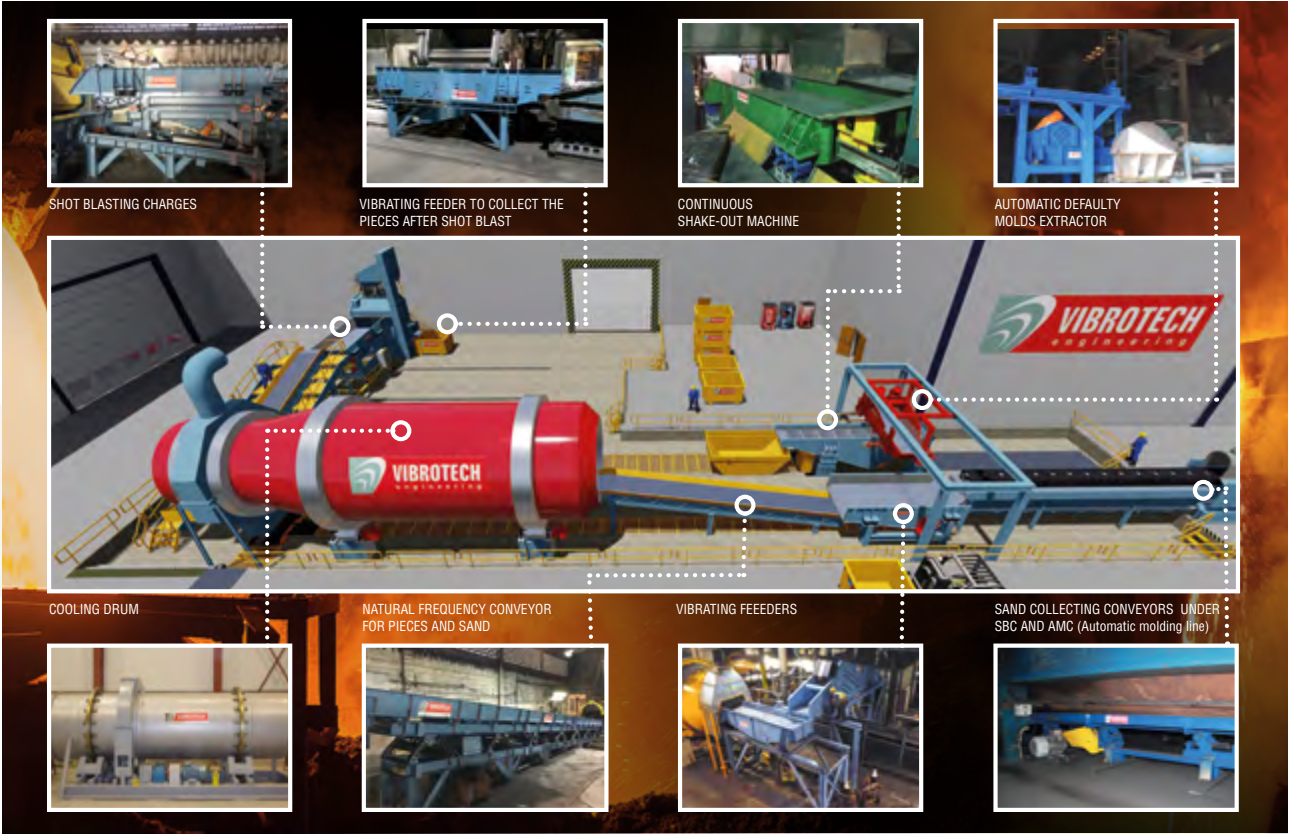
Continuous shake-out machine



Vibrating machinery for ferrous and non-ferrous foundries

- Chargers for induction, rotary and reverberatory furnaces.
- Automated ferro-alloy installations: primary and refine.
- Vibrating machinery for vertical and horizontal moulding lines:
 - Defective mould extractor.
 - Vibratory conveyors: electromechanical and natural frequency conveyors.
 - Continuous shake-out lines, cooling drums and shake-out tables.
 - Casting slug removal lines
 - Shot-blaster chargers: single or double movement.
- Vibrating machinery for foundries using manual processes: shake-out tables, conveyors for sand recuperation.
- Vibrating machinery for non-ferrous foundries: chargers for rotary and reverberatory furnaces, installation of additive dosification (stock, dosing and weighting).
- Vibrating conveyors to collect slugs.
- Turn-key foundry projects.

Vibrating machinery for automatic moulding lines



Aluminium rotary furnace charger



Induction furnace chargers



Vibrating feeders



Shake-out tables

Shake-out and cooling drum



Quarries and mines

Adapted to the processing of different minerals, such as coal, limestone, and aggregates in general, **Vibrotech** manufactures machinery to the highest standards of durability and quality.

These machines are adapted to the needs of our customers, with the aim of improving their production processes.

*Multidesk screens
(probabilistic screens)*



Vibrating machinery for quarries and mines

- Discharge feeders:
 - Electromechanical.
 - Electromagnetic.
 - Exciter.
- Vibrating conveyors.
- Vibrating tubular conveyors.
- Grizzlies and scalpers.
- Vibrating drainers.
- Screen types:
 - Screens driven by an eccentric shaft with adjustable mass (circular movement).
 - Probabilistic screens, multidesk screens.
 - Circular and linear movement.
 - Screens driven by unbalanced motors.
 - Flip-flop screens.

Screens driven
by unbalanced
motors



Grizzlies - scalpers

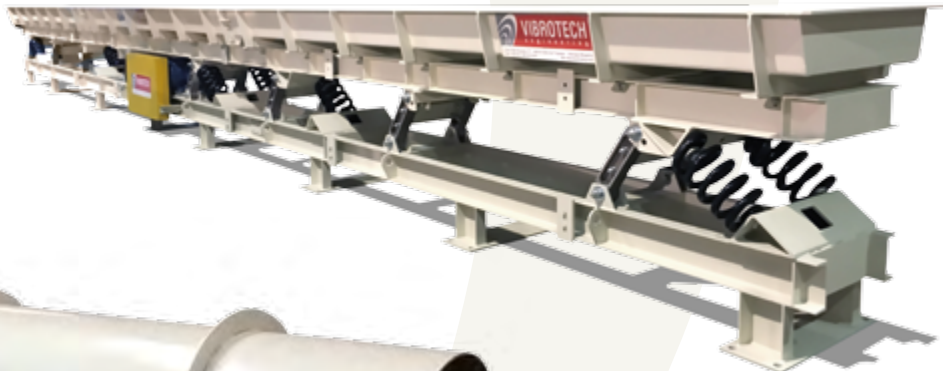


Electromagnetic
discharge feeders

Circular
movement
screen



Vibrating natural frequency conveyor
(long lengths)



Vibrating tubular
conveyors

Elastic mesh screens
(Flip-Flop)



Electromechanic
discharge feeders



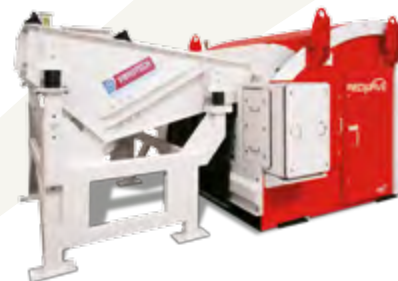


Recycling

Vibrotech offers solutions for recyclers of products of all types, adapted to their production processes. This enables us to provide them with the most cost-effective machinery.

Our machines are used to recycle many materials:

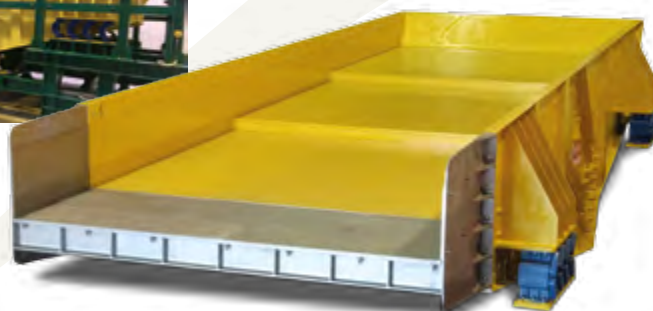
- Metal and scrap
- Glass
- Plastic
- Solid urban waste
- Building and Demolition Waste (BDW)
- Waste wood and vegetation
- Vehicle tyres



Optical sorters



Vibrating feeders for scrap cleaning installations

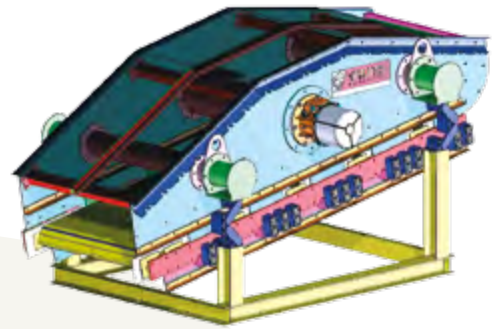


Vibrating machinery for recycling

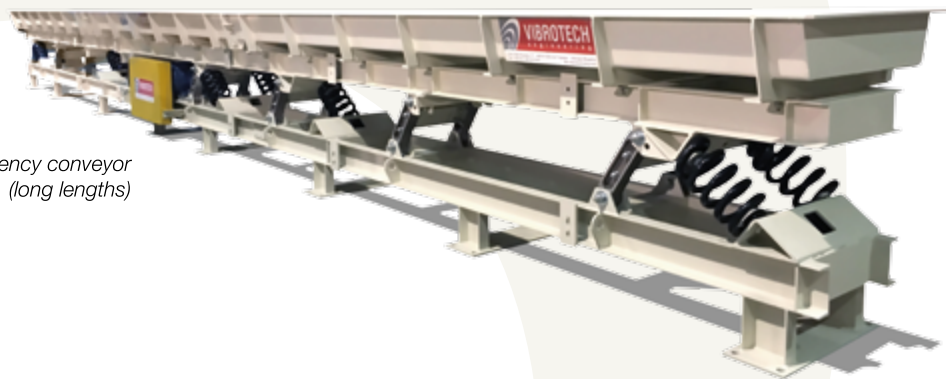
- Discharge feeders: electromagnetic and electromechanic.
- All type of vibrating conveyors.
- Elevators.
- Fluid beds for drying and cooling.
- Densimetric tables.
- Screens for cans and briks.
- Overhanging bar screens to separate large objects.
- Vibrating drainers for all kind of materials.
- Optical sorters.
- Screen types:
 - Screens driven by an eccentric shaft with adjustable mass (circular movement).
 - Probabilistic screens, multidesk screens.
 - Circular and linear movement.
 - Screens driven by unbalanced motors.
 - Flip-flop screens.



Electromagnetic feeder



*Elastic mesh
screens
(Flip-Flop)*



*Vibrating natural frequency conveyor
(long lengths)*



*Linear and
circular
movement
screens*

Densimetric table



*Vibrating drainer or
dewatering screen*





Food industry

The processes used in the food industry require the highest standards of safety, cleanliness and reliability in the machinery used.

The machines manufactured by **Vibrotech**, constructed using different grades of stainless steel, are the ideal solution for improving transport, dosing, elevation and screening processes for different products.

Screening conveyor with leaf springs



Vibrating machinery for food industry.

- Discharge feeders: electromagnetic and electromechanic.
- Dosing machines for all kind of products.
- Vibratory conveyors: electromechanic and natural frequency conveyors.
- Vibrating elevators.
- Drying and cooling machinery.
- Screens.
- Vibrating drainers.
- Compacting tables.
- Special applications.

Natural frequency conveyor
with leaf springs



Sealed
conveyor



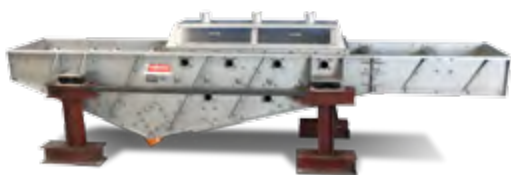
Electromechanic
conveyor-screen



Vibrating
tubular
conveyors



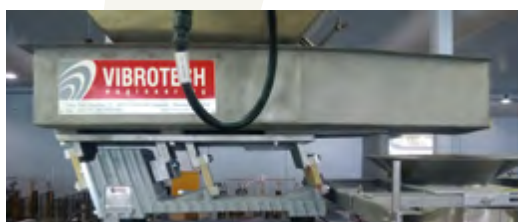
Electromechanic
conveyor



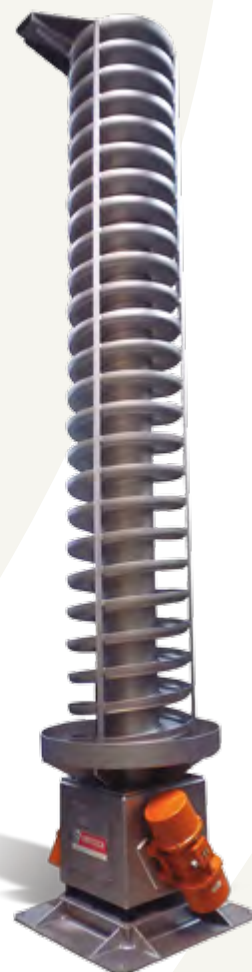
Balanced natural frequency
conveyor



Electromagnetic
discharge feeder



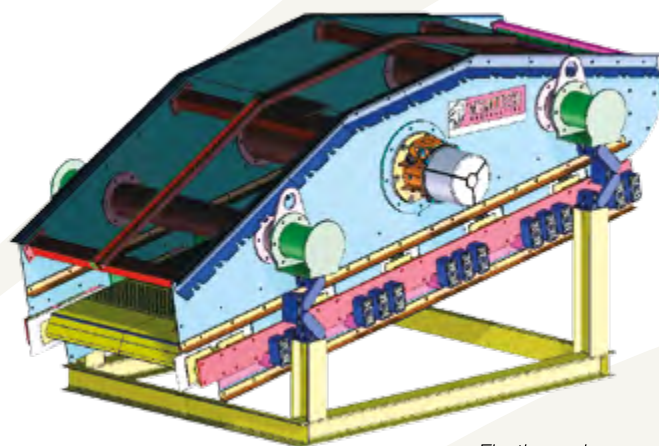
Vibrating
elevator





Glass industry

Manufacture of machinery for the glass industry (manufacturers of bottles, sheet glass, etc.) and for glass recyclers, for many applications, including dosing materials during the composition phase, transport of reject material, screening, density separation, etc.



*Elastic mesh screens
(Flip-Flop)*

Vibrating machinery for recycling and glass manufacture

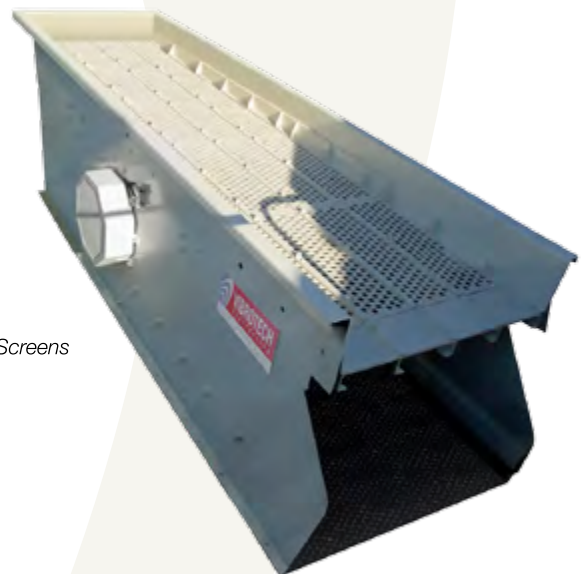
- Discharge feeders.
- Electromagnetic dosers.
- Vibrating conveyors (electromechanical, natural frequency conveyors, etc.).
- Tubular vibrating conveyors.
- Screens.
- Densimetric tables.
- Fluid-bed dryers.
- Optical sorters.



*Discharge
feeder*



*Optical
sorters*



Screens

*Densimetric
table*



*Vibrating
conveyor*



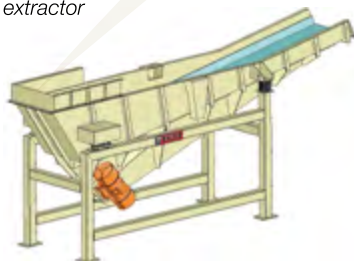


Chemical-ceramic industry

Dosifiers for different products, transport, material lifting and screening are just some of the applications for which **Vibrotech** offers solutions in the varied production processes used in the chemical-ceramic industry.

For the ceramic frit industry, we make extractors to extract the liquid frit from the oven. This machine, equipped with a water tank, receives the liquid frit from the oven, and this is crystallised by the thermal shock produced. Once crystallised, the frit is transferred to the outlet of the machine to be stored.

Ceramic frit extractor



Vibrating tubes



Screens



Vibrating bi-directional conveyor



Vibrating machinery for the chemical-ceramic industry.

- Discharge feeders: electromagnetic and electromechanical.
- Vibratory conveyors: electromechanical, electromagnetic and natural frequency conveyors.
- Ceramic frit extractors.
- Vibrating elevators.
- Drying and cooling machinery.
- Screens.
- Vibrating drainers.
- Compacting tables.
- Special applications.





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Vibrotech Engineering S.L. is a Spanish company whose main activity is the design and manufacture of vibrating machines and installations of different types for use in the transport and selection of solid material.

More than 50 years experience of our parent company, Talleres Alju S.L., always in contact with the needs of industry, and our commitment to research and development of new solutions, enables us to undertake projects in many industrial sectors.

The company's professional team has ample 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.

Means of production.

Our head company, Alju, S.L., has a 10,000 m² plant, 5,000 m² of which is indoors with all of the means of production, where our machines are manufactured and subjected to the most demanding quality tests.

