

Machinery for the recycling industry



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.



Vibrotech Engineering, S.L.

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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.



Machinery for industrial recycling



- Discharge feeders
- Vibrating conveyors
- Vibrating screens
- Grizzlies - scalpers
- Densitmetric tables
- Vibrating drainers
- Fluid-bed dryers
- Optical sorters



Discharge feeders

Used in all sectors for all kind of materials:

- Glass.
- Wood.
- Electronic waste.
- Metals.
- Plastics.
- Solid urban waste.
- Building and Demolition Waste (BDW).



Vibrating conveyors

All kind of vibrating conveyors.

Driven by:

- Unbalanced motors
- Electromagnetic drivers
- Natural frequency conveyors



Scrap cleaning installation



Vibrating conveyor-screen



Electromagnetic feeding conveyor

Screens

Screening is often used, either to obtain a recycled final product or for initial preparation of a product for subsequent processing.

Vibrotech Engineering has a broad manufacturing program for Screening machinery for any product and/or application:



- Small screens operated by one or two vibrators.
- Bars screens.
- Multidesk screens.
- Medium and large size conventional screens.
- Flip-flop screens.

We can also develop new machines to be integrated into the exclusive processes of each customer (one process, one customer, one machine).



Grizzlies and scalpers

Essential machines in recycling rubble, they avoid the crushers becoming clogged with the fines mixed with the other materials.

This type of machine can also be equipped with diverging bars, to separate materials in heavy-duty applications (e.g., to remove sand from broken-up scrap, or to remove inert materials from domestic rubble).



Vibrating drainers

- Used to separate solids from liquids.
- They can be equipped with bottom panels made of polyurethane, perforated sheet or mesh, depending on the needs of the customer.
- Open and closed models available.



Densimetric tables

Densimetric tables are designed to separate products with different densities using a fluidising system.

Their operation is based on two simultaneous actions. One is the vibration imparted to the material, and the other is the fluidising effect of air blown through it. This produces a separation of products with different densities.

The main features of our separators are:

1. The amplitude and frequency of the different actuators used can be adjusted.
2. The separator is set upon inflatable anti-vibration supports. This allows the inclination of the separator to be adjusted (by approximately 5°).
3. They have a greater useful length, so the products remain on them for longer, increasing the separation efficiency.

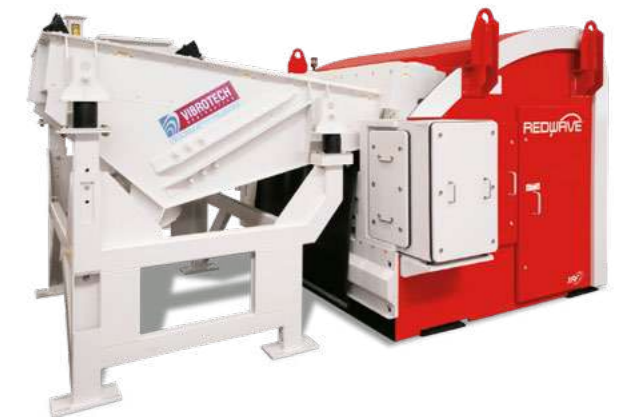


Optical sorters

Used to classify different products. Various technologies are used, depending on the materials to be separated and the application requirements (NIR, X-rays, cameras, etc.).

They are used with products such as:

- Glass (separation by colour, elimination of KSPs, etc.)
- Plastics (PET, PVC, etc.).
- Metals.
- Minerals.
- Paper.
- Electronic waste.
- Etc.



Fluid bed dryers

- Used to prepare a product for subsequent processing.
- Different sizes available, depending on the throughput requirements.
- Different fuels can be used to heat the air.

