Filtra Vibración S.L
FILTRA VIBRACIÓN, S.L. has been proud to celebrate its 25 years in the market developing and manufacturing laboratory and industrial process equipment for the sieving of solids and liquids and for the mixing and milling of solids. Another production line is the industrial filters made-to-measure according to customer specifications.

FILTRA offers high quality products at very competitive prices. All products strictly comply with national and international manufacturing standards, subjected to rigorous quality control and being delivered with an EC Declaration of compliance. The FILTRA quality management system for sieve manufacture is certified by TÜV NORD.

Following our policy of Quality and Innovation, FILTRA continues to investigate improvements and the development of new products.

FILTRA reserves the right to change the dimensions and technical characteristics of this catalog without notice.

FILTRA is a member of the Association of Scientific Equipment Manufacturers LABMAS SPAIN, which collaborates with other international industry associations.

Manufacture of stainless steel mesh or perforated plate test sieves of diameter between 60 and 600 mm.

Laboratory accredited by ENAC for the emission of reports of wire mesh and perforated plate test sieves according to the following standards: UNE 7056-3, ISO 3310-1, ASTM E11, ISO 9044, UNE 7056-4, ISO 3310-2, ASTM E323.
We are leaders in the Spanish market, and currently sell in over 50 countries to multiple sectors - pharmacy, food, chemical industry, construction, recycling, agriculture, etc. - and applications. Our hope is to continue growing and share our enthusiasm and satisfaction with our partners and customers.
Granulometry

Granulometric classification or granulometry is defined as the measurement and grading which is performed on granules or particles of a solid material for analytical purposes, both on its origin and its mechanical properties, and the calculation of the proportion of the corresponding elements for each size on a granulometric scale.

What is the significance of granulometry?
Knowledge of the granule dimensions and the distribution according to size of the particles dispersed in solids is extremely important for research and development, production and quality control applications. Based on the granulometric distribution, some of the product properties will vary, such as:

- Flavour
- Absorption
- Conductivity
- Miscibility
- Agglomeration due to cohesion/adhesion forces
- Mechanical properties
- Fracture properties
- Resistance to wear
- Surface reaction
- Insulation properties
- Filtration properties

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The FILTRA sieves shakers can be used to classify and analyse a wide variety of products, both liquid and solid.

This equipment can be used in areas of research and development, quality control, and production process supervision.

Sectors and examples of application

The main sectors for application are:

**Food**
- Flours
- Milk products
- Tiger nut milk
- Musts
- Cereals
- Spices
- Pulses
- Chocolate
- Nuts
- Meat products
- Sugar
- Coffee
- Mineral salts
- Fruit compots
- Ice-creams
- Juices

**Agriculture**
- Fertilizers
- Seed
- Grain
- Herbs
- Flowers

**Chemical and Petrochemical**
- Glues/adhesives
- Paints
- Toner
- Plastic and polyamides, etc
- Masterbatch
- Pet
- PVC
- Lubricants
- Resins

**Recycling**
- Paper pulp
- Waste water
- Glass
- Slurry
- Waste oils
- Plastics
- Copper
- Wood

**Construction**
- Filling materials
- Sand
- Clay
- Cement and derivatives
- Plaster

**Cosmetics and hygiene**
- Detergents
- Soaps
- Pigments
- Surfactants

**Ceramics**
- Stains
- Enamels
- Pigments
- Clay

**Mining**
- Metals
- Metal oxides
- Kaolin
- Explosives
- Minerals
- Diamonds

**Pharmaceuticals**
- Medicines and drugs

The FILTRA sieves shakers can be used to classify and analyse a wide variety of products, both liquid and solid.

This equipment can be used in areas of research and development, quality control, and production process supervision.
Sieves

FILTRA VIBRACION, S.L manufactures a wide range of laboratory sieves with diameters from 60 to 600 mm, with top quality AISI 304 or AISI 316 stainless steel for the frame, AISI 304 for the perforated plates, and AISI 316 for the metal meshes, providing excellent durability and high resistance to corrosion.

They are all manufactured in strict compliance with UNE, ISO, ASTM, AFNOR, BS, etc. national and international regulations. The FILTRA Quality Management System for the manufacture of these sieves is certified by TÜV NORD, in accordance with UNE EN ISO 9001:2000 regulations.

They are manufactured in two pieces, allowing the mesh to be changed when it has deteriorated or does not meet the regulations. The interior sieve surface is totally flat to prevent the accumulation of residue and dirt. Cleaning is very fast and easy.

Our laboratory sieves have a rubber seal included in order to ensure they fit tightly. In addition, they can be fitted together and fitted to those from other manufacturers perfectly.

Marking is done by laser etching on the frame, giving each sieve an individual identification number, which allows for subsequent tracing.

Manufacture of stainless steel mesh or perforated plate test sieves of diameter between 60 and 600 mm.

QUALITY

Before being supplied, each sieve is subjected to optical calibration and provided with a manufacturer’s certificate and documentation regarding maintenance.

We also have lids and bottoms in stainless steel in all diameters for which we manufacture the sieves.

ADVANTAGES:

• Manufacture according to national and international regulations.
• High quality. High resistance to corrosion. Excellent durability.
• Manufactured in two pieces: allows the mesh to be changed.
• Totally flat surface for easy cleaning. Product residues do not accumulate.
• Individual identification by laser, allows the sieve to be traced.
• The sieves can be fitted together and fitted to those from other manufacturers perfectly.
• Maximum stability and sealed fit for sieves stacks.

Table of the various diameters and heights of FILTRA sieves

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06 07
Sieves and Accessories

FILTRA offers a wide range of sieves in a variety of sizes, shapes and materials, together with complementary equipment.

NEPTUNO

Ultrasonic Bath

A NEPTUNO ultrasonic bath is the perfect accessory to maintain and clean laboratory sieves and other pieces of equipment.

Ultrasonic cleaning is currently the most modern and effective cleaning system: the alternate high and low pressure waves produce a frequency which, through the cavitation phenomenon, leads to the production of millions of microscopic bubbles which impact on the object surface, loosening dirt in minimum time.

Ultrasonic baths have low electrical energy consumption and save time when compared to brushing out or other traditional methods. The areas which are difficult to access become clean and without traces of dirt, while the object surface is not damaged, as can happen with other methods.

The NEPTUNO ultrasonic baths are made from stainless steel (AISI 304). We have various models according to capacity: 0.7 / 1 / 1.5 / 3 / 6 / 10 / 14 / 28 / 35 / 50 L.

<table>
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<th>Model</th>
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<th>Weight (Kg)</th>
<th>Drainage</th>
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Table of normalized openings in metal mesh and plate for the manufacture of laboratory sieves, according to various international regulations.

### METALLIC MESH

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<td>750</td>
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### PERFORATED PLATE

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<td>500</td>
<td>710</td>
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*W = Mesh light (opening size)
Filters

METALLIC MESH FILTERS
At FILTRA VIBRACIÓN, S.L. we specialize in the manufacture of all types of metal mesh industrial filters. We have a team with over 20 years’ experience in this field, developing, together with our customers, solutions in filter consumables for multiple industrial sectors such as chemicals, petrochemicals, pharmaceutical, plastics, resins, thermal oils, etc.

We manufacture a multitude of industrial filters in AISI 304 or AISI 306 stainless steel: cylindrical filters, DN22 to DN 600 Y-type; DN25 to DN600 filter baskets, pleated filters with one or various mesh layers; conical and truncated conical filters; interchangeable plugs; mesh disks; special elements.

We develop and manufacture made-to-measure products according to the client's plans or specifications, from a single unit to whole ranges.

METALLIC MESH Sieves
We manufacture all types of custom metal sieves with a single mesh or multiple or with reinforcement structure where necessary.

NON-METALLIC FILTERS
We supply synthetic filters made of polypropylene, polyester or polyamide: sleeves and bag filters, mini weaves, filter discs, cartridges, mesh fabrics for fluidization and nylon mesh bulk meters.
### Table of Standardized Opening Mesh Sizes for Production of Industry Sieves

#### Metallic Mesh

We have a large stock of stainless steel mesh AISI 304 and 316 acc/ISO 9044 to supply in rolls, panels or bulk meters: plain fabric, twill, wave, electro, sintered or Reps.

#### Lightweight Group

<table>
<thead>
<tr>
<th>Opening size (mm)</th>
<th>Ø Wire (mm)</th>
<th>% Useful surface</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.440</td>
<td>0.300</td>
<td>68.80</td>
</tr>
<tr>
<td>1.126</td>
<td>0.280</td>
<td>66.00</td>
</tr>
<tr>
<td>1.150</td>
<td>0.240</td>
<td>65.50</td>
</tr>
<tr>
<td>1.130</td>
<td>0.230</td>
<td>65.40</td>
</tr>
<tr>
<td>0.880</td>
<td>0.280</td>
<td>64.40</td>
</tr>
<tr>
<td>0.726</td>
<td>0.200</td>
<td>63.00</td>
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<tr>
<td>0.594</td>
<td>0.160</td>
<td>62.40</td>
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<tr>
<td>0.457</td>
<td>0.160</td>
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<tr>
<td>0.400</td>
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<td>61.10</td>
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<tr>
<td>0.343</td>
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<tr>
<td>0.247</td>
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<tr>
<td>0.219</td>
<td>0.090</td>
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<tr>
<td>0.188</td>
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<td>0.172</td>
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#### Strong Group

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</tr>
<tr>
<td>0.71</td>
<td>0.46</td>
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<tr>
<td>0.62</td>
<td>0.48</td>
<td>32.00</td>
</tr>
<tr>
<td>0.40</td>
<td>0.22</td>
<td>42.00</td>
</tr>
<tr>
<td>0.30</td>
<td>0.20</td>
<td>36.00</td>
</tr>
</tbody>
</table>

#### Laboratory Equipment
The FILTRA electromagnetic sieve shakers are used in research and development, and in quality control for production processes, both for raw materials and intermediate and finished products. With them it is possible to carry out granulometric testing for particle separation, both for dry and wet conditions.

The IRIS model sieve shakers are highly effective, thanks to the three-dimensional particle motion, created by an electromagnet. With this 3D effect the particles bounce over the whole sieve area, forcing them to pass through the lower sieve more quickly. Thus a faster, more effective sieving is achieved through the whole sieve column.

There are four models: FTS-200, FTL-200, FTL-300 and FTL-400, which cover sieves from 60 mm Ø to 400 mm Ø for samples from 25 gr to 25 kg of product. The particle size to be analysed can range from 25µ to 125 mm. Each user can choose the equipment which is best suited to their needs.

Examples of application:
Foodstuffs, earth, coal, construction materials, chemical and pharmaceutical products.

IRIS FTL-0200
Digital electromagnetic sieve shaker for sieves from Ø 60 and 203 mm. Its three-dimensional movement throughout the sieve column makes it very effective when carrying out granulometric test. It includes digital power, timing and intermittence controls for sieving. It can be supplied with the standard anchoring system or with the “Easy-Press” rapid system. It permits 8 sieves of 50 mm in height, or 16 sieves of 25 mm in height.

IRIS FTS-0200
Small, compact and light, it is the economic option from the IRIS range of electromagnetic sieves. Allows sieves from Ø 60 to 203 mm Up to 7 sieves of 50 mm in height, or 14 sieves of 25 mm in height. It includes digital power, timing and intermittence controls for sieving. It is supplied with the standard fixation system.

All models include digital power control (from 1 to 9), sieving time (from 0 to 99 min.) and the sieving mode; continuous or intermittent.

All the sieve shakers are equipped with an anti-vibration system which, together with the anchoring system, ensures complete stability during the sieving.

Depending on the model, it is possible to choose between the standard fixation system, and the “Easy-Press” rapid fixation system. The methacrylate lid makes observing the product during the sieving process easy.

All equipment is subjected to strict quality control, which guarantees years and years of problem-free use.

Examples of application:
Foodstuffs, earth, coal, construction materials, chemical and pharmaceutical products.

IRIS ANCHORING SYSTEMS:
- Standard: Threaded rods, bakelite knobs and methacrylate lid.
- “Easy-Press”: smooth rods, pressurized tightening knobs which easily slide along the rods, and a methacrylate lid.

ADVANTAGES:
- Three-dimensional motion.
- Highly effective: short sieving times
- Sieving for dry and wet test
- Ergonomic design
- Digital adjustment of sieving parameters
- Easy to operate
- Integrated interface
- Anti-vibration system
- Silent
- Maintenance free
**Electromagnetic Sieve Shaker**

**Examples of application:**

Minerals, fertilizers, plastics, metals, seeds, flowers, herbs, grain, wood-chip, fibres, etc.

---

**IRIS FTL-0300**

Designed for high sample volumes, it can admit 5 sieves of 80 mm in height, or 8 sieves of 50 mm in height. The diameters range from 250 to 305 mm. The power, time of sieving and intermittence are all digitally adjusted. It can be supplied with the standard fixation system or with the “Easy-Press” rapid system, according to your choice.

**IRIS FTL-0400**

It allows a large load capacity. It is designed for sieves from Ø 400 mm, although it can also allow smaller diameters. With the highly effective 3D motion, sieving times are short; even with large product samples. Like the other models, it includes digital power, timing and intermittence controls for sieving. It is possible to choose between the standard anchoring system and the “Easy-Press” rapid system.

---

**ACCESSORIES:**

- Methacrylate lid for dry test.
- Methacrylate lid with stainless steel diffusing ball for wet test.
- Stainless steel receiver for dry test.
- Stainless steel receiver with outlet for wet test (including hose and flange).
- Stainless steel lid.
- “Easy-Press”rapid anchoring system (smooth rods and pressurized tightening knobs).
- Feed balls to ease the passage of the product in the sieve.
- Cleaning brushes.
- Freeing tool.

---

**Specifications:**

<table>
<thead>
<tr>
<th>Feature</th>
<th>IRIS FTL-0200</th>
<th>IRIS FTL-0300</th>
<th>IRIS FTL-0400</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sieve Shaker Type</td>
<td>Electromagnetic</td>
<td>Electromagnetic</td>
<td>Electromagnetic</td>
</tr>
<tr>
<td>Dry test</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Wet test</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Levels of Power</td>
<td>9</td>
<td>9</td>
<td>9</td>
</tr>
<tr>
<td>Size of Particle</td>
<td>20 µ a 125 mm</td>
<td>20 µ a 125 mm</td>
<td>20 µ a 125 mm</td>
</tr>
<tr>
<td>Number of Sieves (mm)</td>
<td>7 x Ø200x50 14 x Ø200x25</td>
<td>8 x Ø200x50 16 x Ø200x25</td>
<td>5 x Ø300x80 8 x Ø300x50 4 x Ø400x100</td>
</tr>
<tr>
<td>Max. Diameter of Sieve (mm)</td>
<td>203</td>
<td>203</td>
<td>315</td>
</tr>
<tr>
<td>Timer (min)</td>
<td>1 a 99</td>
<td>1 a 99</td>
<td>1 a 99</td>
</tr>
<tr>
<td>Intensity (A)</td>
<td>0,8</td>
<td>0,8</td>
<td>0,8</td>
</tr>
<tr>
<td>Power (kW)</td>
<td>0,4</td>
<td>0,4</td>
<td>0,4</td>
</tr>
<tr>
<td>Weight (Kg)</td>
<td>40</td>
<td>45</td>
<td>48</td>
</tr>
<tr>
<td>Dimensions L x W x H (mm)</td>
<td>305 x 630 254 x 800</td>
<td>305 x 630 254 x 800</td>
<td>555 x 630 x 750</td>
</tr>
</tbody>
</table>

---

**Accessories:**

- Methacrylate lid for dry test.
- Methacrylate lid with stainless steel diffusing ball for wet test.
- Stainless steel receiver for dry test.
- Stainless steel receiver with outlet for wet test (including hose and flange).
- Stainless steel lid.
- “Easy-Press”rapid anchoring system (smooth rods and pressurized tightening knobs).
- Feed balls to ease the passage of the product in the sieve.
- Cleaning brushes.
- Freeing tool.
The Sieve Shaker Salomon provides the sieving process reproducing the movements of the hand sieving, the combination of oscillating movements and tapping on the top part facilitates the passage of the particles of the sample, avoiding the clogging of sieves. The equipment is fully provided with acoustic insulation to minimize the degree of noise during sieving.

**Examples of application:**
- Sands, chemicals and pharmaceuticals products, seeds, shavings, plastics, wood, etc.

**Inclusions:**
- Sound Enclosure Cabinet provided with acoustic insulation and protection sensor to stop the machine when the door is open for Safety.
- Metal support for sieves with adjustable height.
- Top metal lid with rubber stopper.
- Tapping arm situated in the upper part of equipment, driven by an axis which acts jointly with the oscillating movement of sieving and allows the beating at the top of the sieves.
- Driving set composed of a motor of 1.5 kW at 220 V monophase and the corresponding pulleys toothed belt transmission.

**TECHNICAL CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Sieves (mm)</td>
<td>6 x Ø 200 x 50</td>
</tr>
<tr>
<td>Rotation speed (r.p.m.)</td>
<td>275</td>
</tr>
<tr>
<td>Tapping speed (taps/min)</td>
<td>144</td>
</tr>
<tr>
<td>Dimensions L x W x H (mm)</td>
<td>810 x 540 x 750</td>
</tr>
<tr>
<td>Electrical connection (V)</td>
<td>220 Monophase</td>
</tr>
<tr>
<td>Power (kW)</td>
<td>750</td>
</tr>
<tr>
<td>Weight (Kg)</td>
<td>178</td>
</tr>
</tbody>
</table>

**Digital Air Jet Sieve Shaker**

The EOLO digital air jet sieve shaker has been specially designed for dry granulometric testing, for fine particles from 5 microns in size (from 0.005 to 4 mm).

It offers fast, effective sieving thanks to the flow of the product obtained forced by a current of air which forces the particles through the sieve. This effect is obtained using an industrial vacuum which maintains constant depression.

It features a digital panel with sieving time regulation (1 to 99 minutes) and Vacuum Meter, which incorporates a depression regulator valve in order to select the necessary depression for each test.

The sieve shaker includes a methacrylate lid which allows the product behaviour to be observed, and a nylon mallet to loosen the residual product which is stuck to the lid due to the effects of static electricity.

The use of FILTRA quality Air Jet sieves of Ø200 mm (not included) is recommended.

**Examples of application:**
- Food powders, fine sand, construction materials, chemical and pharmaceutical products, minerals, fertilizers, powdered plastics, powdered metals, fibres, etc.

**ACCESSORIES:**
- Methacrylate lid.
- Nylon mallet.
- NILFISK GM-80 vacuum.
- FILTRA Ø 200 mm Air Jet sieves.
- Cleaning brushes.
- Freeing tool.
- Ultrasound bath for sieves cleaning.

**ADVANTAGES:**
- Highly effective in the sieving of fine particles: very short sieving times.
- Dry sieving.
- Ergonomic design.
- Digital adjustment of sieving parameters.
- Easy to operate.
- Integrated interface.
- Silent.
- Maintenance free.
Laboratory Grinding Mill

FML-0100 / FML-2000

FILTRA manufacture two different models of laboratory Grinding Hammer Mills, in order to cover the different customer needs: ARES FML-0100 is a small and economical one for milling small quantities of product and ARES FML-2000 with the double of capacity for biggest quantities of product or biggest articles.

They are used to grind a wide variety of soft, semi-hard and hard materials, such as, cereals, spices, vegetables, plastics, resins, minerals, earth, stone, coal, etc. with a particle feed size of +/- 15 mm in FML-0100 and +/- 20mm in FML-2000.

The feeding is supplied by a hopper located at the top and can be dosed manually using a chopper. The door has a quick locking with a safety micro-sensor which stops the rotation of the hammers when it’s opened.

Both the front and loading hopper are manufactured from mirror-polished AISI 304 stainless steel. In the interior the 3 hammers are made from anti-wear AISI 410 stainless steel. The equipment includes an easily interchangeable sieve with round perforations.

In FML-2000 model, plus the sieve, the blades and the toothed crown are also interchangeable, and can be easily removed for cleaning without using any key. This model incorporates a potentiometer to regulate the engine speed.

Examples of application:
Grain food, cereals, seeds, spices, vegetables, stones, earth, minerals, resins, plastics, chemical products, construction materials, ceramics, pharmaceutical products, etc.

ADVANTAGES:

• Easy cleaning thanks to the interchangeable toothed crown and sieves without the need of tools.
• Potentiometer to regulate motor velocity.
• Removable polished stainless steel loading hopper and collecting drawer, for ease of cleaning.
• Very fine end granulometry.

MODEL | Timer (min) | Tension | Power (Kw) | Speed (rpm) | Grinding chamber Dimensions (mm) | Loading hopper Volume (l) | Grinding chamber Volume (l) | Drawer Volume (l) | Weight (kg) | Number of hammers | Size of sieve holes (Ø mm) | Maximum hardness (Mohs) | Maximum size of particle at the entrance (mm) | General dimensions (mm)
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
FML-0100 | 0 - 99 | 220-240 V (50-60 Hz) | 1,9 | 3000 | Ø110x66 | 1,2 | 0,4 | 1 | 38 | 3 | 1,2,3,4,5 | 6-7 | 15 | 225 x600 x420
FML-2000 | 0 - 99 | 220-240 V (50-60 Hz) | 2,6 | 3000 | Ø150x88 | 5,5 | 1,2 | 2 | 72 | 3 | 0,5, 0.8, 1, 1.5, 2, 2,5, 3,4,5,6 | 6-7 | 20 | 520 x700 x700
Laboratory V-Mixer

**FTLMV-0,5 / 01 / 02 / 04 / 08**

The VENUS V-shaped laboratory mixers are used in the precision homogenization of powdered or granulated products in the pharmaceutical, chemical and food industries. It can gently and evenly mix solids with solids, in any percentage, or solids with liquids (maximum 10%).

It has two loading inlets with silicon lids and one outlet with a dosing valve. The product introduced revolves through 360° via mechanical transmission. Its characteristic V-shape means axial currents are produced when the body is turned, and these separate and unite the material. This, along with the radial mixing action, produces an extremely homogeneous result (in the proportion of 1 part in 10,000) without the need for paddles or other devices.

The mix containers are manufactured from AISI-316 stainless steel with a polished mirror finish inside and outside. Its angle and corner-free design prevents the accumulation of product residue in the interior.

The mixer works with a single-phase motor and has a timer, stop/start switch and fuse box.

The useful capacity, in order to achieve the correct homogenization, is 50% of the total mixer volume. The FILTRA V mixers are available in 0.5, 1, 2, 4 and 8 litres (total capacity).

**Examples of application:**
- Food powder, chemicals and pharmaceuticals, metals, plastics, additives, etc.

**ADVANTAGES:**
- Precision mixing. Maximum product homogenization.
- High quality materials and finishes.
- Free of interior angles or corners; there is no build up of product residue.
- Silent.
- Maintenance free.

---

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Timer</th>
<th>Tension</th>
<th>Mixer Power (kW)</th>
<th>Weight (kg)</th>
<th>Useful Volume (l)</th>
<th>Nº de vueltas deposito x min. (rpm)</th>
<th>Dimensions (L x W x H (mm))</th>
</tr>
</thead>
<tbody>
<tr>
<td>FTLMV-0,5</td>
<td>Mechanical</td>
<td>220-240 V 50-60 Hz</td>
<td>0,1</td>
<td>15</td>
<td>0,25</td>
<td>38</td>
<td>415 x 400 x 415</td>
</tr>
<tr>
<td>FTLMV-01</td>
<td>Mechanical</td>
<td>220-240 V 50-60 Hz</td>
<td>0,1</td>
<td>17</td>
<td>0,5</td>
<td>38</td>
<td>415 x 400 x 415</td>
</tr>
<tr>
<td>FTLMV-02</td>
<td>Mechanical</td>
<td>220-240 V 50-60 Hz</td>
<td>0,1</td>
<td>17</td>
<td>1</td>
<td>38</td>
<td>415 x 400 x 430</td>
</tr>
<tr>
<td>FTLMV-04</td>
<td>Mechanical</td>
<td>220-240 V 50-60 Hz</td>
<td>0,1</td>
<td>20</td>
<td>2</td>
<td>25</td>
<td>550 x 400 x 550</td>
</tr>
<tr>
<td>FTLMV-08</td>
<td>Mechanical</td>
<td>220-240 V 50-60 Hz</td>
<td>0,25</td>
<td>25</td>
<td>4</td>
<td>18</td>
<td>700 x 450 x 650</td>
</tr>
</tbody>
</table>
Circular Sieve Shaker

**FTI-0550 / 0800 / 1200 / 1500**

The ZEUS sieve shaker is suitable for large production volumes in industrial sieving. It can be used for separation processes for solids in a liquid, for the separation of different granulometries within the same product, in safety sieving for the elimination of foreign bodies, for the homogenization of particles, etc. It permits a production volume of 100 to 25,000 kg/h, depending on the product, the mesh opening size and the feed flow to the machine. It is suitable for sieving from 36 microns to 25 mm.

Manufactured from AISI 304 stainless steel (or AISI 316 on request), it features an imbalanced-weight motor which produces a three-dimensional motion which makes the sieving of the product very effective. Adjustment of the imbalanced-weights allows the regulation of product behaviour on the mesh and the sieving speed.

The bottom has a side outlet through which the obtained product can be unloaded. The sieves can be ordered with or without product outlet. In the case of choosing a sieve with outlet, the sieving process can be automated: as the product enters the sieve shaker, it also leaves via the sieve opening.

The ZEUS model allows up to 4 sieves, with which up to 5 product separations are obtained. The possible diameters are: 550, 800, 1200 or 1500 mm. As an option it can be ordered with fast-closing clamps, lid, viewing windows in the lid and body, and wheels. If the sieve shaker is going to be used in areas classified as being potentially explosive environments then it is manufactured with ATEX materials, and FILTRA will supply the corresponding ATEX certificate. No special floor or foundation is necessary for its installation.

---

**Examples of application:**

Chemical, pharmaceutical, agricultural, fishery, forestry, biological and food products, paints, sand, metals, wood, plastic, glass, recycling, waste water treatment, etc.

**The ZEUS sieve shaker is suitable for large production volumes in industrial sieving.**

It can be used for separation processes for solids in a liquid, for the separation of different granulometries within the same product, in safety sieving for the elimination of foreign bodies, for the homogenization of particles, etc.

- **Examples of application:** Chemical, pharmaceutical, agricultural, fishery, forestry, biological and food products, paints, sand, metals, wood, plastic, glass, recycling, waste water treatment, etc.

---

**ADVANTAGES:**

- **Sieve for large production volume.**
- **Highly robust.** It can work for 24 hours.
- **Highly versatile.** Easy to operate.
- **Sieves with or without product outlet (to choose).**
- **Can have wheels fitted.**
- **Low maintenance.**

---

**Specifications:**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Sieve Shaker Type</th>
<th>Max. Number of Sieves</th>
<th>Sieve Diameter (mm)</th>
<th>Tension (V)</th>
<th>Intensity (A)</th>
<th>Power (Kw)</th>
<th>Speed (rpm)</th>
<th>Weight (Kg)</th>
<th>Dimensions (øXH mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FTI-0550</td>
<td>Circular</td>
<td>4</td>
<td>550</td>
<td>400 460</td>
<td>1 1.02 0.42 0.5</td>
<td>1500 1800</td>
<td>95</td>
<td>710 755</td>
<td></td>
</tr>
<tr>
<td>FTI-0800</td>
<td>Circular</td>
<td>4</td>
<td>800</td>
<td>400 460</td>
<td>2 2.00 1.20 1.25</td>
<td>1500 1800</td>
<td>150</td>
<td>710 755</td>
<td></td>
</tr>
<tr>
<td>FTI-1200</td>
<td>Circular</td>
<td>4</td>
<td>1200</td>
<td>400 460</td>
<td>3 3.1 1.80 2</td>
<td>1500 1800</td>
<td>320</td>
<td>710 755</td>
<td></td>
</tr>
<tr>
<td>FTI-1500</td>
<td>Circular</td>
<td>4</td>
<td>1500</td>
<td>400 460</td>
<td>3 3.1 1.80 2</td>
<td>1500 1800</td>
<td>370</td>
<td>710 755</td>
<td></td>
</tr>
</tbody>
</table>

* Size and weight for standard configuration: 1 level + lid

---

*Ex*

Product adjustable movement over the mesh.
**Sieve Shaker**

**FTI-2M-0550 / 0800 / 1200**

The HELIOS sieve shaker is especially recommended for control and safety sieving for both solids and liquids. It is very useful in confined spaces where the reception of material and the unloading of the sieved product are in close proximity. It permits a large product volume and a single sieving level.

They are often installed at the outlet of discharge chutes, grinding mills, mixers, etc. The inlet feed and product outlets are on the centre of the sieve shaker itself, it acting practically as a strainer. It is easy to install. It can be supplied on a wheeled support or alone, to be inserted within an installation.

It is made from stainless steel (AISI 304 or AISI 316) with two lateral motors, fitted on opposite sides, through which a three-dimensional motion in the horizontal and vertical planes is achieved, allowing excellent material flow.

**Examples of application:**

Chemical, agricultural, food, pharmaceutical products, paints, resins, waste water, plastic, glass, etc.

**ADVANTAGES:**

- Extremely robust and reliable.
- It can work 24 hours a day.
- It occupies little space.
- It allows for a large product volume.
- Central loading and unloading of material.
- Low maintenance.

If the sieve shaker is going to be used in areas classified as being potentially explosive environments then it is manufactured with ATEX materials, and FILTRA will supply the corresponding ATEX certificate.

It is available in three diameters: 550, 800 and 1200 mm.

**FTI-0300 / FTI-0400**

The VULCANO Industrial Sieve shaker is ideal for small production runs of between 5 and 75 kg, depending on the type of product.

Manufactured from AISI 304 stainless steel (or AISI 316 on request), it features an imbalanced-weight motor which produces a three-dimensional motion which makes the sieving of the product very effective. Adjustment of the imbalanced-weights allows the regulation of product behaviour on the mesh and the sieving speed.

The bottom has a side outlet through which the obtained product can be unloaded. The sieves can be ordered with or without product outlet. In the case of choosing a sieve with an outlet, the sieving process can be automated: as the product enters the sieve shaker it also leaves via the sieve opening.

This sieve shaker allows up to 5 sieves of 300 or 400 mm Ø. The standard fixation system is made up of threaded steel bars, bakelite knobs and an open (for continuous feed) or closed methacrylate lid. Optionally it can be ordered with a rapid closing system, metal lid and wheels for easy moving.

If the sieve shaker is going to be used in areas classified as being potentially explosive environments then it is manufactured with ATEX materials, and FILTRA will supply the corresponding ATEX certificate.

**Examples of application:**

Chemical, pharmaceutical and agricultural products, food stuffs, paint, sand, seeds, metals, wood, plastic, glass, etc.

**ADVANTAGES:**

- Sieve shaker for small production volumes (pilot plants).
- Highly versatile.
- Easy to operate.
- Sieves with or without product outlet (to choose).
- Can have wheels fitted
- Low maintenance.
**Mobile Circular Sieve Shaker**

**FTIS-0450 / FTIS-0600**

The CENTAURO is a compact, light, mobile sieve shaker. It is frequently used to carry out on-site checking and safety sieving (mountains, fields, factory, etc.) as it can easily be taken from place to place. It can be used both for liquids and solids.

It is used for products such as: enamels, paints, ceramic powders and sands, in addition to applications in the chemicals, food and agricultural industries, etc.

It is made from AISI 304 stainless steel (it can also be made to order from AISI 316, and with materials suitable for ATEX explosive atmospheres, bearing the corresponding certification). It permits only one sieving level. The mesh is easily interchanged and self-tensing.

It is available in 405 and 600 mm diameters.

---

**CENTAURO**

Examples of application:

- Enamels, paints, ceramic powder, sand, seeds, chemicals, agriculture products, food, etc.

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**MINERVA**

**FTIC-0650 / FTIC-0800**

The MINERVA centrifuge sieve shakers are used when high productivity is required, with two types of sieving being possible:

- Separation sieving of different granulometries in loose products with poor flow characteristics which are difficult to sieve due to their high content of humidity, grease or static.
- Safety sieving of the finished product in order to eliminate possible impurities.

Used in industrial sectors such as food, pharmaceuticals, chemicals etc., they are suitable for a wide range of products such as flours, sugars, ceramics, varnishes, pigments, plastics, etc. They can separate granulometries from 75 microns to 5 mm.

The product to be sieved is conveyed to the interior of the cylinder via the feed screw and is distributed over the whole sieve surface via centrifugal paddles. The velocity of the paddles creates a centrifugal force which pushes the product through the mesh. The largest particles or those with impurities are thrown out.

The velocity and the paddles can be adjusted to the type of product.

They can be made to order in AISI 304 or AISI 316 stainless steel. If the centrifugal sieve shaker is going to be used in areas classified as being potentially explosive environments then it is manufactured accordingly and provided with the ATEX certificate.

**Examples of application:**

- Flour, sugar, chocolates, ceramics, paints, pigments, plastics, cement, plaster, etc.

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**ADVANTAGES:**

- Mobile sieve, to work in the field.
- Highly versatile. Easy to operate.
- Interchangeable and self-tensing mesh.
- Adjustable height.
- Low maintenance.

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**FTIC-0650**

- Centrifugal
- Sieve Diameter: 2 x Ø 220 x 294
- Tension: 380/400 V 50 Hz
- Intensity (A): 3,21
- Power (Kw): 1,4
- Speed (rpm): 750
- Weight (Kg): 205
- Dimensions (LxWxH mm): 1875 x 500 x 840

**FTIC-0800**

- Centrifugal
- Sieve Diameter: 2 x Ø 310 x 370
- Tension: 380/400 V 50 Hz
- Intensity (A): 5,83
- Power (Kw): 2,2
- Speed (rpm): 900
- Weight (Kg): 245
- Dimensions (LxWxH mm): 2250 x 600 x 945

---

**ADVANTAGES:**

- Sieve shaker for large production volume. High performance.
- Specially designed for humid, greasy or electrostatically charged products.
- Highly robust. It can work for 24 hours.
- Easy interchange of cylinder sieves.
- Fixed or portable.
- Silent.
- Easy to clean. Low maintenance.
Industrial V-Mixer

FTMV-16 / 25 / 75 / 250 / 500

The ATENEA industrial V-shaped mixer is used in order to achieve perfect homogenization of solid with solid (in any proportion) and solid with liquid (10% maximum) products in powder or granulated form.

It has a V-shaped body with two loading inlets and one outlet, with a butterfly valve to facilitate the unloading of the mixture. Due to the V-shape axial currents are produced when the body is turned through 360°, and these currents separate and unite the product to be mixed. This, along with the radial mixing action, produces an extremely homogeneous result (in the proportion of 1 part in 10,000).

It is possible to add an intensifying bar within the interior which breaks down lumps and reduces the mixing time. Using this intensifying bar it is possible to add liquids in spray form.

The surface finish is mirror-polished with various grades of polish as required. The mixing time varies between 3 and 15 minutes, depending on the complexity of the mixture. It is available in various models for capacities of 16, 25, 75, 250, 300 or 500 litres of product.

Examples of application:
Flours and other food products in powder or grain, pigments, colourants, glass fibre, plastic in powder or granules, pesticides, herbicides, fertilizers, polymerized products, pharmaceutical products, chemical products, etc.

OPTIONAL:
- Intensifier (shaker) / humidifier bar set
- External electrical panel
- Safety protective barriers
- Finishes and qualities

ADVANTAGES:
- Precision mixing. Maximum product homogenization.
- High quality materials and finishes.
- Free of interior angles or corners; there is no build up of product residue.
- Silent.
- Easy to maintain.

MODEL | Timer | Tension | Mixer Power (Kw) | Intensifying Power (Kw) | Weight (Kg) | Useful Volume (l) | Dimensions L x W x H mm
---|---|---|---|---|---|---|---
FTLMV-16 | Digital 0 - 90 min. | 220-380 V 50 Hz | 0,25 | 0,37 | 55 | 8 | 306 x 1350 x 1000
FTLMV-25 | Digital 0 - 90 min. | 220-380 V 50 Hz | 0,37 | 1 | 80 | 12,5 | 306 x 1600 x 1000
FTLMV-75 | Digital 0 - 90 min. | 220-380 V 50 Hz | 0,75 | 2,2 | 200 | 37,5 | 2000 x 1600 x 1800
FTLMV-250 | Digital 0 - 90 min. | 220-380 V 50 Hz | 2,2 | 3 | 250 | 125 | 2085 x 1600 x 1850
FTLMV-500 | Digital 0 - 90 min. | 220-380 V 50 Hz | 4,1 | 4,1 | 330 | 250 | 2500 x 1600 x 1800

For Circular and Side Motors Sieve Shaker:
- Mesh cleaning rings (4)
- Silicone gaskets
- Springs (2)
- Sleeves: nylon, silicone (8)
- Sieve: 550, 800, 1200, 1500, 2000 mm. (5)
- Remaking sieves (5)
- Support bench
- Wheels (7)
- Control (10)
- Silicone Lids (3)

For Centrifugal Sieve Shaker:
- Cylindrical Sieves: St. steel or nylon (6)
- Support bench
- Control (10)

For "V" Mixer:
- Safety protective barriers: cage, cells, etc. (9)
- Support bench
- Control (10)
- Inox Lids (12)
- Intensifier (shaker) / humidifier bar set (11)

Accessories and spare parts

1. Intensifier (shaker) / humidifier bar set
2. External electrical panel
3. Safety protective barriers
4. Finishes and qualities