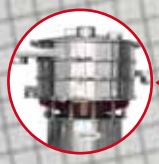
FILTRA
VIBRACIÓN

Experience at your service,
Making solutions



On this catalogue we have chosen the Generator QR code, this system is compatible with Android, IOS and Windows Mobile Phones.
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This system is used to link the FILTRA products with its technical sheets from our website.

Presentation

Since

1988

FILTRA VIBRACION, S.L., is proud to be in the market since 1988, developing and manufacturing laboratory and industrial process equipment for the sieving of solids and liquids and for the mixing and milling of solids.

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.

TÜV NORD CERT GmbH ISO 9001

Nº : 44 100 131483

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

ilac-MRA ENAC ENSAYOS Nº 310/LE683

Laboratory accredited by ENAC for the emission of reports of wire mesh and perforated plate test sieves according to the following standards: UNE 7050-3, ISO 3310-1, ASTM E11, ISO 9044, UNE 7050-4, ISO 3310-2, ASTM E323.

Techsolids

Techsolids consists of companies that integrate all the technology and services for the processing of dry powders and bulk materials

LAB MAS LABORATORY MANUFACTURERS ASSOCIATION OF SPAIN+

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

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**
- **Agglomeration due to cohesion/adhesion forces**

Sectors and examples of application

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.

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
Masterbach
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

Fair

We distribute in more than 50 countries

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 wiht our partners and customers.

Expoquimia Fair. Barcelona

Achema Fair. Munich

Fair

Expoquimia Fair, Barcelona

Achema Fair, Frankfurt

Powtech Fair. Nuremberg

ArabLab Fair, Dubai

Arablab Fair. Dubai

Exposólidos Fair. Barcelona

ENAC (Spanish National Accreditation Agency) Test Laboratory

In 2002 FILTRA VIBRACION, S.L set up the first ENAC accredited laboratory in Spain (Accreditation no. 310/LE683) for the carrying out of Trials for metal mesh and plates in accordance with the following regulations:

Mesh	Plates
UNE 7050-3	UNE 7050-4
ISO 3310-1	ISO 3310-2
ASTM E11	ASTM E323
ISO 9044	

The laboratory technical personnel, using artificial vision equipment and following methods established by the UNE-EN ISO/IEC 17025:2005 regulation governing our quality systems, carry out necessary measurements and calculations in order to issue a trial report which, together with other results, determines whether the mesh or perforated plate of the examined sieve conforms to the reference regulation.

ENAC accreditation is recognized internationally through MLA (Multilateral Agreement) or MRA (Mutual Recognition Agreement).

ilac-MRA ENAC ENSAYOS Nº 310/LE683

Mesh / Perforated Plate for Laboratory Sieves

Table of normalized openings in metal mesh and plate for the **manufacture of laboratory sieves**, according to various international Regulations

METALLIC MESH

mm (milimètres)

UNE 7050-3 ISO 3310-1	ASTM E11	
W*	W*	Nº
125	125	5 in.
112		
106	106	4,24 in.
100	100	4 in.
90	90	31/2 in.
80		
75	75	3 in.
71		
63	63	21/2 in.
56	56	
53	53	2,12 in.
50	50	2 in.
45	45	13/4 in.
40	40	
37,5	37,5	11/2 in.
35,5	35,5	
31,5	31,5	11/4 in.
28	28	
26,5	26,5	1,06 in
25	25	1 in.
22,4	22,4	7/8 in.
20	20	
19	19	3/4 in.
18	18	
16	16	5/8 in.
14	14	
13,2	13,2	0,530 in.
12,5	12,5	½ in.
11,2	11,2	7/16 in.
10	10	
9,5	9,5	3/8 in.
9	9	
8	8	5/16 in.
7,1	7,1	
6,7	6,7	0.265 in.
6,3	6,3	¼ in.
5,6	5,6	31/2
5	5	
4,75	4,75	4
4,5	4,5	
4	4	5
3,55	3,55	
3,35	3,35	6
3,15	3,15	
2,8	2,8	7
2,5	2,5	
2,36	2,36	8
2,24	2,24	
2	2	10
1,8	1,8	
1,7	1,7	12
1,6	1,6	
1,4	1,4	14
1,25	1,25	
1,18	1,18	16
1,12	1,12	
1	1	18

µm (micromètres)

UNE 7050-3 ISO 3310-1	ASTM E11	
W*	W*	Nº
900	900	
850	850	20
800	800	
710	710	25
630	630	
600	600	30
560	560	
500	500	35
450	450	
425	425	40
400	400	
355	355	45
315	315	
300	300	50
280	280	
250	250	60
224	224	
212	212	70
200	200	
180	180	80
160	160	
150	150	100
140	140	
125	125	120
112	112	
106	106	140
100	100	
90	90	170
80	80	
75	75	200
71	71	
63	63	230
56	56	
53	53	270
50	50	
45	45	325
40	40	
38	38	400
36	36	
32	32	450
25	25	500
20	20	635

PERFORATED PLATE

mm (milimètres)

UNE 7050-4 ISO 3310-2	ASTM E323	
W*	W*	Nº
● ■ 125	● ■ 125	5 in.
● ■ 112		
● ■ 106	● ■ 106	41/4 in.
● ■ 100	● ■ 100	4 in.
● ■ 90	● ■ 90	31/2 in.
● ■ 80		
● ■ 75	● ■ 75	3 in.
● ■ 71		
● ■ 63	● ■ 63	21/2 in.
● ■ 56		
● ■ 53	● ■ 53	21/8 in
● ■ 50	● ■ 50	2 in.
● ■ 45	● ■ 45	13/4 in.
● ■ 40		
● ■ 37,5	● ■ 37,5	11/2 in.
● ■ 35,5		
● ■ 31,5	● ■ 31,5	11/4 in.
● ■ 28		
● ■ 26,5	● ■ 26,5	11/16 in.
● ■ 25	● ■ 25	1 in.
● ■ 22,4	● ■ 22,4	7/8 in.
● ■ 20		
● ■ 19	● ■ 19	3/4 in.
● ■ 18		
● ■ 16	● ■ 16	5/8 in.
● ■ 14		
● ■ 13,2	● ■ 13,2	17/32 in.
● ■ 12,5	● ■ 12,5	1/2 in.
● ■ 11,2	● ■ 11,2	7/16 in.
● ■ 10		
● ■ 9,5	● ■ 9,5	3/8 in.
● ■ 9		
● ■ 8	● ■ 8	5/16 in.
● ■ 7,1		
● ■ 6,7	● ■ 6,7	17/64 in.
● ■ 6,3	● ■ 6,3	1/4 in.
● ■ 5,6	● ■ 5,6	7/32 in.
● ■ 5		
● ■ 4,75	● ■ 4,75	3/16 in.
● ■ 4,5		
● ■ 4	● ■ 4	5/32 in.
● 3,55		
● 3,35	● 3,35	1/8 in.
● 3,15		
● 2,8	● 2,8	7/64 in.
● 2,5		
● 2,36	● 2,36	3/62 in.
● 2,24		
● 2	● 2	0,078 in.
● 1,8		
● 1,7	● 1,7	0.066 in.
● 1,6		
● 1,4	● 1,4	0,055 in.
● 1,25		
● 1,18	● 1,18	0,045 in.
● 1,12		
● 1	● 1	0,039 in.

*W = Luz de malla / apertura de chapa.

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.

Nº : 44 100 131483
Manufacture of stainless steel mesh or perforated plate test sieves of diameter between 60 and 600 mm.

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.

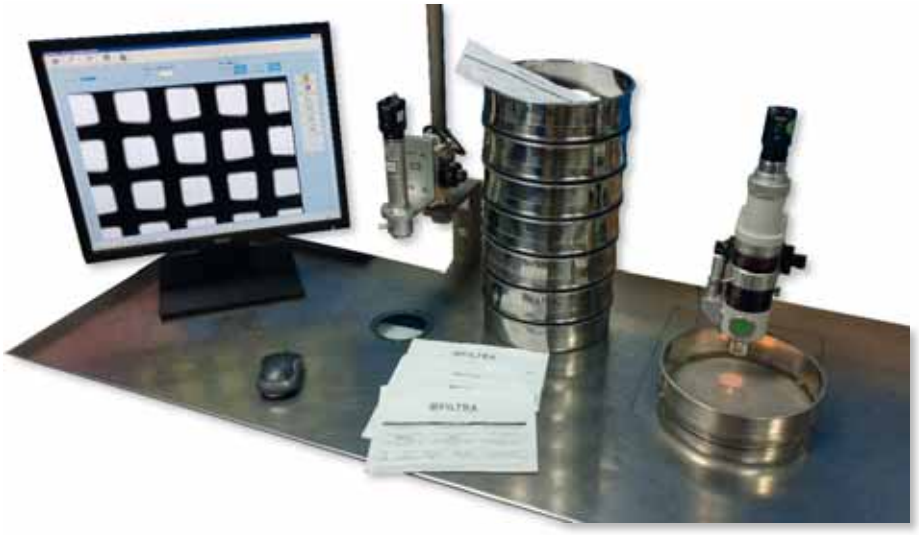
Marking is done by laser etching on the frame, giving each sieve an individual identification number, which allows for subsequent tracing.

Sieves

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.



TÜV NORD CERT GmbH ISO 9001

Nº : 44 100 131483

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

Table of the various diameters and heights of FILTRA sieves

D	Hu	Ht	P	V
60	25	30	60	5
60	75	85	120	15
75	25	40	85	25
100	20	35	100	50
100	50	60	150	75
125	20	34	165	85
150	30	43	200	100
150	50	60	250	120
200	25	50	450	70
200	50	70	500	140
200	100	120	800	250
200	200	220	1000	500
203	25	50	450	70
203	50	70	500	140
250	70	90	900	280
300	80	95	1250	560
305	50	70	1250	560
315	80	95	1300	560
350	80	100	1500	600
400	65	85	1700	600
400	100	115	2000	650
450	100	115	2200	750
500	100	115	3000	850
600	110	125	3600	1000

D	DIAMETER (mm)
Hu	USEFUL HEIGHT (mm)
Ht	TOTAL HEIGHT (mm)
P	THEORICAL WEIGHT (g) (Depending on Mesh)
V	RECOMMENDED VOLUME (with mesh of 1 mm cm^2)

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.**

Sieves and Accessories

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

N° : 44 100 131483

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

Sieve with stainless steel frame and mesh.

Stainless steel sieve with square-holed perforated plate.

Stainless steel framed sieve with nylon mesh.

Stainless steel sieve with oval-holed perforated plate (for cereals, ISO 5223).

Stainless steel sieve with round-holed perforated plate.

Special stainless steel sieve for EOLO-FTLBA (Air Jet) sieve shaker, with stainless steel or nylon mesh.

Special test sieves: conical, double height, half height, etc.

Grid Sieves made of paint carbon steel.

Stainless steel lids and receivers in all sizes.

Sieve shelves.

Cleaning brushes for sieves.

Food balls used to open the mesh of sieve.

FILTRA
VIBRACIÓN

Laboratory Equipment

IRIS

Digital Electromagnetic Sieve Shaker

FILTRA electromagnetic sieve shakers are used in the areas of research and development, and for the quality control of production processes for both raw materials, and intermediate and finished products. The sieve shakers are used in granulometric testing for the separation of particles using either the dry or wet methods.

The IRIS sieve shaker models are highly efficient, thanks to the three-dimensional motion of the particles generated by an electromagnet. This 3D effect causes the particles to pass more rapidly to the lower sieve. This helps to achieve a more effective sieving throughout the sieve column.

There are four models: FTS-0200, FTL-0200, FTL-0300 and FTL-0400, comprising lid sieves from 60 mm to 400 mm Ø for samples from 25 gr of product to 12.5 kg. The size of the particles to be analysed can range from 20µ to 125 mm. Each user may choose the most suitable piece of equipment for their needs.

Examples of application:

Foodstuffs, soils, coal, construction materials, chemicals and pharmaceutical products.

All models incorporate digital power control (from 1 to 9), a timer (from 0 to 99 sec.) and either continuous or intermittent sieving mode.

All the Sieve Shakers are equipped with an anti-vibration system which, in conjunction with the anchoring system, ensures complete stability during the sieving operation.

Depending on the Sieve Shaker, it is possible to choose between a standard anchoring system and the quick-release "Easy-Press" system. The methacrylate lids allow for easy visibility of the product during sieving.
All equipment is subjected to strict quality control, guaranteeing years and years of problem-free use.

Digital Electromagnetic Sieve Shaker

IRIS

IRIS Series

Examples of application:

Minerals, fertilisers, plastics, metals, seeds, flowers, herbs, grain, foodstuffs, woodchip, fibres, etc.

LABORATORY

	IRIS			
	FTS-0200	FTL-0200	FTL-0300	FTL-0400
Sieve Type	Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic
Dry method	YES	YES	YES	YES
Wet method	YES	YES	YES	YES
Power levels	9	9	9	9
Particle size	20 µ to 125 mm	20 µ to 125 mm	20 µ to 125 mm	20 µ to 125 mm
Number of sieves (mm)	7 x Ø200x50 14 x Ø200x25	8 x Ø200x50 16 x Ø200x25	5 x Ø300x80 8 x Ø300x50	4 x Ø400x100
Sieve maximum diameter (mm)	203	203	315	400
Timer (min)	1 to 99	1 to 99	1 to 99	1 to 99
Voltage	220/240 V - 50/60 Hz.	220/240 V - 50/60 Hz.	220/240 V - 50/60 Hz.	220/240 V - 50/60 Hz.
Current (A)	0,8	0,8	0,8	0,8
Power (kW)	0,4	0,4	0,4	0,4
Weight (Kg)	27	40	45	48
Dimensions L x W x H (mm)	305 x 630 x 640	254 x 800 x 800	254 x 800 x 780	555 x 630 x 750

Digital Electromagnetic Sieve Shaker

IRIS FTL-0200

Electromagnetic digital Sieve Shaker for sieves from Ø 60 to 203 mm. Its three-dimensional motion throughout the sieve column makes it highly effective when carrying out granulometric testing. It includes digital control over power, time, and sieving intermittency.
It can be supplied with either the standard anchoring system or the quick-release "Easy-Press" 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 alternative among the IRIS range of electromagnetic sieves. It can take sieves of Ø 60 to 203 mm and up to 7 sieves of 50 mm in height, or 14 sieves of 25 mm in height.
It features digital control over power, time, and sieving intermittency. Supplied with the standard anchoring system.

ADVANTAGES:

- Three-dimensional motion. Highly efficient: short sieving times.
- Sieving via dry and wet methods.
- Suitable for sieves of ø60<ø203mm.
- Ergonomic design.
- Digital adjustment of sieving parameters.
- Easy handling.
- Integrated interface.
- Anti-vibration system.
- Silent.
- Maintenance-free.
- Optional: possibility to fit the "EASY PRESS" quick-release system.

Digital Electromagnetic Sieve Shaker

IRIS FTL-0300

Designed for large sample volumes, it allows for 5 sieves of 80 mm, or 8 sieves of 50 mm in height. The diameters range from 250 to 305 mm. Both power and sieving intermittency can be digitally adjusted.
It is supplied with a choice of either standard anchoring or the quick-release "Easy-Press" system.

IRIS FTL-0400

Designed for a large load capacity, it allows for up to 4 sieves of Ø 400 mm, although it may also take smaller diameters. Through highly efficient 3D sieving, short sieving times can be achieved even with large product samples. As with the other models, it includes digital control over power, time, and sieving intermittency.
It can be supplied with either the standard anchoring system or the quick-release "Easy-Press" system.

ADVANTAGES:

- FTL-0300: Suitable for working with sieves from ø250<ø305mm.
- FTL-0400: Suitable for working with sieves from ø315<ø400mm.
- Three-dimensional motion. Highly efficient: short sieving times
- Sieving by dry or wet methods.
- Ergonomic design.
- Digital adjustment for sieving parameters.
- Easy handling.
- Integrated interface.
- Anti-vibration system.
- Silent.
- Maintenance-free.
- Optional: possibility to fit the "EASY PRESS" quick-release system.

Digital Air Jet Sieve Shaker

LABORATORY

FTLBA

The EOLO air jet Sieve Shaker has been specially designed for dry granulometric testing of fine particles starting at 5 microns in size (from 0.005 to 4 mm).

It provides very fast, effective sieving thanks to the product flow obtained by a current of air which forces the particles through the sieve. This effect is obtained by means of an industrial vacuum which maintains a 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 that becomes stuck to the lid due to the effects of static electricity.

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

Examples of application:

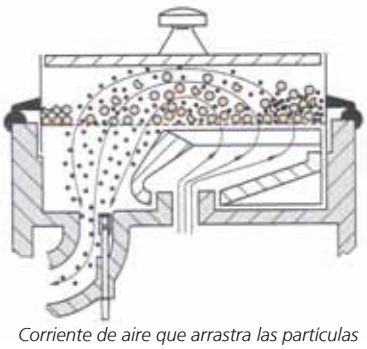
Powdered foodstuffs, fine sand, construction materials, chemical and pharmaceutical products, minerals, fertilisers, powdered plastics, powdered metals, fibres, etc.

ACCESORIOS:

- Cyclonic dust collector.
- Methacrylate lid.
- Nylon mallet.
- NILFISK GM-80 vacuum.
- FILTRA Ø 200 mm Air Jet Sieve Shakers.
- Cleaning brushes.

Cyclonic dust collector

TECHNICAL SPECIFICATIONS	
Sieve Type	Air jet
Dry method	YES
Wet method	NO
Particle size	5 µm to 4 mm
No. sieves	1
Sieve diameter (mm)	200
Timer (min)	1 to 99
Voltage	220/240 V - 50/60 Hz.
Power (kW)	0,19
Maximum depression (Kpa)	20
Weight (Kg)	20
Dimensions ØxH (mm)	360 x 275



Corriente de aire que arrastra las partículas haciéndolas pasar a través del tamiz.

ADVANTAGES:

- Very efficient in sieving fine particles: very short sieving times.
- Sieving by dry method.
- Ergonomic design.
- Digital adjustment for sieving parameters.
- Easy to use, and silent.
- Integrated interface.
- Maintenance-free.

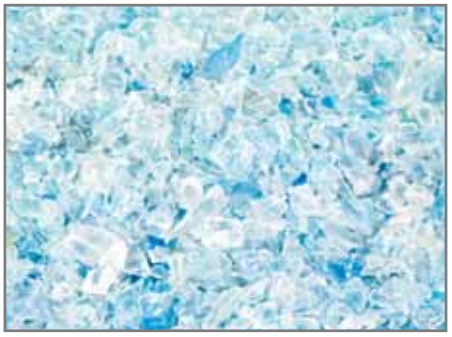
FML-0100 / 2000

FILTRA manufactures its laboratory grinding hammer mills in two different models, based on customer needs: the small and economical ARES FML-0100, for the grinding of small product quantities, and the ARES FML-2000, with double the capacity, for greater quantities of product, or particles of a greater size.

They are used to grind a wide variety of soft and semi-hard materials, such as, for example, cereals, spices, seeds, vegetables, plastics, resins, minerals, rocks, coal, etc. with a particle feed size of 15 mm in the ARES FML-0100 model, and 20mm in the ARES FML-2000 model.

Examples of application:

Granulated foodstuffs, cereals, spices, vegetables, rocks, soil, minerals, resins, plastics, chemicals, construction materials, ceramics, pharmaceutical products, etc.



Feeding is provided via a hopper located at the top and can be dosed manually using a chopper. The door features quick locking, with a safety micro-sensor which prevents the rotation of the hammers when it is opened.

Both the front and loading hopper are manufactured from mirror-polished AISI 304 stainless steel. Inside, the 3 hammers are made from anti-wear AISI 410 stainless steel. The equipment includes an easily interchangeable sieve with standard perforations of Ø 0.5 to 6 mm.

In the case of the ARES FML-2000 model, in addition to 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 motor speed.

MODEL	Timer	Voltage	Power (Kw)	Velocity (rpm)	Grinding chamber dimensions (mm)	Loading hopper volume (l)	Grinding chamber volume (l)	Drawer volume (l)	Weight (kg)	Sieve perforation size (Ø mm)	Maximum hardness (Mohs)	Maximum particle size at input (mm)	Overall dimensions (mm)
FML-0100	0-99 min	220-240 V (50-60 Hz)	1,9	3000	Ø110x66	1,2	0,4	1	38	1,2,3,4,5	6	15 mm	225 x600 x420
FML-02000	0-99 min	220-240 V (50-60 Hz)	2,6	3000	Ø150x88	5,5	1,2	2	72	0.5, 0.8, 1, 1.5, 2, 2.5, 3,4,5,6	6	20 mm	520 x700 x700

ARES FML-0100

Feeding is via a hopper located at the top and can be dosed manually using a chopper. The door features quick locking, with a safety micro-sensor which prevents the rotation of the hammers when opened.

ARES FML-2000

In the case of the ARES FML-2000 model, in addition to 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 motor speed.

ADVANTAGES:

- Easy to clean, thanks to the toothed crown and sieves being interchangeable, without the use of keys.
- Potentiometer to regulate motor speed.
- Loading hopper and product collecting drawer in polished stainless steel, for easy cleaning.
- Very fine final granulometry.
- Stainless steel drawer.
- Continuous process.

Laboratory V-type Mixer

VENUS

FTLMV-0,5 / 01 / 02 / 04 / 08 / 16 / 25

The Venus laboratory V-mixer is used in the precision homogenisation 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% solid with respect to liquid).

It has two loading inlets with silicon lids, and one outlet with a dosing valve. Introduced product is revolved 360°; its characteristic V-shape means produces axial currents when the body is turned, which 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 inside.

The mixer is operated by a single-phase motor, and has a timer, stop/start switch, and fuse box.

The useful capacity, in order to achieve correct homogenization, is 50% of the total mixer volume. The VENUS mixers are available with capacities from 0.5 to 25 litres (total capacity).

Examples of application:

Powdered foodstuffs, chemical and pharmaceutical products, metals, plastics, additives, etc.

ADVANTAGES:

- Precision mixing. Maximum product homogenisation.
- High quality of materials and finishes.
- Free from interior angles and corners; no accumulation of product residue.
- Silent.
- Maintenance-free.

LABORATORY

MODEL	Timer		Voltage	Mixer power (CV)	Weight (kg)	Useful volume (l)	No. deposit turns x min. (rpm)	Dimensions L x W x H (mm)
FTLMV-0,5	Mechanical	60 min.	220-240 V 50-60 Hz	0,12 CV	15	0,25	38	415 x 400 x 415
FTLMV-01	Mechanical	60 min.	220-240 V 50-60 Hz	0,12 CV	17	0,5	38	415 x 400 x 415
FTLMV-02	Mechanical	60 min.	220-240 V 50-60 Hz	0,12 CV	17	1	38	415 x 400 x 430
FTLMV-04	Mechanical	60 min.	220-240 V 50-60 Hz	0,12 CV	20	2	25	550 x 400 x 550
FTLMV-08	Mechanical	60 min.	220-240 V 50-60 Hz	0,25 CV	25	4	18	700 x 450 x 650
FTLMV-16	Mechanical	60 min.	220-240 V 50-60 Hz	0,16 CV	60	8	18	1100 x 475 x 900
FTLMV-25	Mechanical	60 min.	220-240 V 50-60 Hz	0,25 CV	70	12,5	18	1100 x 475 x 900

NEPTUNO

Ultrasonic bath

The NEPTUNO ultrasonic bath is the perfect accessory for the maintenance and cleaning of sieves and other pieces of laboratory equipment.

Cleaning by ultrasound is, today, the most modern and efficient cleaning system: the pressure waves -alternately high and low- generate a frequency, which causes the phenomenon of cavitation, involving the formation of millions of microscopic bubbles which collide with the surface of the object, removing dirt in a minimum of time.

Ultrasound baths have low electrical energy consumption, and save time with respect to brushing or traditional cleaning. Recesses and areas of difficult access are left clean, with no trace of dirt, while the surface of the object is not damaged, as occurs with other methods.

The NEPTUNO ultrasound bath is manufactured in stainless steel (AISI-304). Various models are available, according to capacity: 0.7 / 1 / 1.5 / 3 / 6 / 10 / 14 / 28 / 35 / 50 L.

GENERAL SPECIFICATIONS FOR ALL EQUIPMENT:

- Supply voltage: 200 – 240 V ac ± 10%, 50 – 60 Hz.
- Protection against curent and voltage surges.
- Digital control display: receptacle temperature, working temperaure, action time for ultrasound, start and activiation of the cleaning equipment.
- High-performance steel-aluminium piezo-electric transducers.
- Working temperature range: from 0 to 80°C.

	Ultrasound Frequency (KHz)	Ultrasound Power (W)	Heating Power (W)	Internal DImensions (mm) W x L x H	Weight (Kg)	Drainage
COMBAÑO 0,7L	40	50	100	85 x 150 x 60	1,8	NO
COMBAÑO 1L	40	50	100	120 x 130 x 65	2,1	½".
COMBAÑO 1,5L	40	50	100	130 x 140 x 100	2,3	½".
COMBAÑO 3L	40	100	100	130 x 230 x 100	3,7	½".
COMBAÑO 6L	40	200	150	150 x 300 x 150	5,7	½".
COMBAÑO 10L	40	300	200	235 x 295 x 150	9	½".
COMBAÑO 14L	40	500	300	295 x 325 x150	14	½".
COMBAÑO 28L	40	600	750	295 x 495 x 200	18	½".
COMBAÑO 35L	40	700	1000	295 x 395 x 300	25	½".
COMBAÑO 50L	40	800	1000	300 x 600 x 300	40	½".

FILTRA
VIBRACIÓN

Industrial Equipment

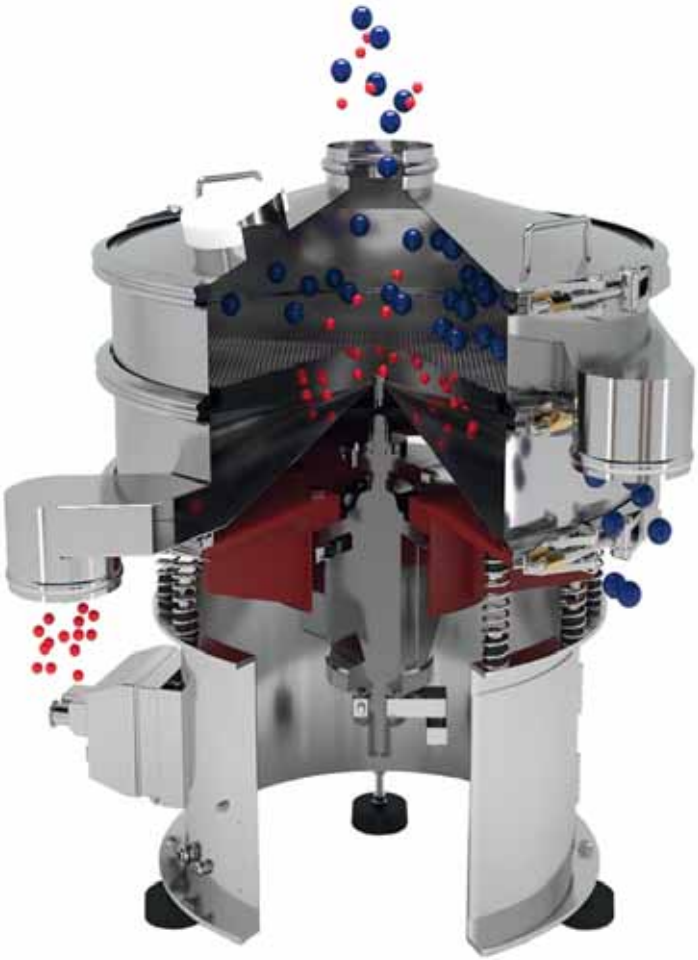
INDUSTRIAL

ULTRASOUND

Ideal for solid particles, prevents clogging, increasing capacity and speed of sieving.
Possibility to supply "TWIN" versions working with a single generator on two sieves simultaneously.

CLEANING WITH RINGS

Self-cleaning polyethylene (FDA) ring system, for unblocking the sieve mesh.
Fitted under the sieve.



CLEANING WITH FOOD BALLS

System using silicon (FDA) food balls, for matting products to help break up potential clots.
Possibility of fitting to the upper or lower part of the sieve. Food quality silicon or rubber material.

CLEANING WITH BRUSHING

For exceptional products that require brushing on the upper part of the sieve.

INDUSTRIAL

Circular Sieve Shaker

ZEUS

FTI-0550 / 0800 / 1000 / 1200 / 1500

ZEUS Sieve Shakers are ideal for processes of granulometric separation of solids/solids, or separation between solids/liquid.

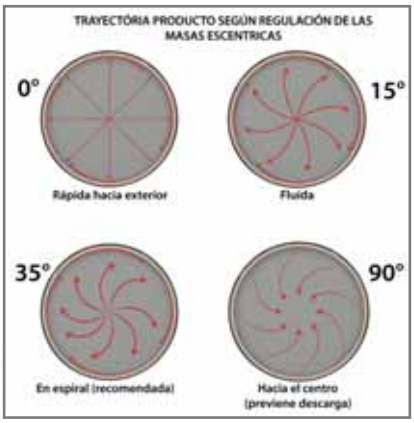
Thanks to their corner-free design, the interior can be cleaned quickly and effectively. They allow a variety of productions, from 100 to 20,000 kg/h, depending on the type of product. Each machine can perform up to five separations simultaneously, from #38µ<#25mm.

Fitted with an unbalance motor which creates a three-dimensional motion, providing maximum sieving of the product.

Manufactured in AISI 304 stainless steel (or AISI 316, on request), joints and elements in contact with the product in accordance with FDA regulations.

Wide range of accessories available, ultrasound sieving, self-cleaning ring systems, peepholes, silicone hatches, and auxiliary accessories to ensure and maintain optimum performance in specific processes.

On request, they can be manufactured under ATEX standards and regulations.



ADVANTAGES

- Very robust
- Easy cleaning
- Allows up to 4 sieves I simultaneously (5 separations)
- Occupies little space.
- High performance
- Central loading and lateral unloading for product
- Reduced maintenance

TECHNICAL SPECIFICATIONS				
Model	**Voltage**	**Revolutions per minute**	**Power**	**Weight**
FTI-0550	380/400V @ 50/60 Hz	1500 / 1800 rpm	0,52 Kw	100 Kg
FTI-0800			1,1 Kw	160 Kg
FTI-1000			1,35 Kw	185 Kg
FTI-1200			2,01 Kw	337 Kg
FTI-1500			2,01 Kw	460 Kg

***Weight for standard configuration 1 level + lid.

INDUSTRIAL

Low-profile Security Sieve Shaker

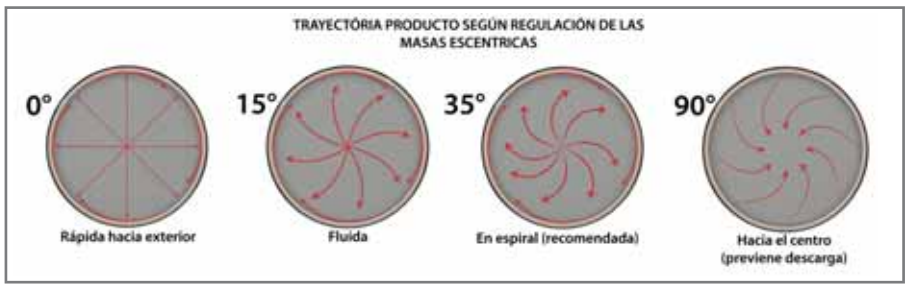
FTI-2M-0800 / 1000 / 1200-PB

The HELIOS-PB Sieve Shakers are specially designed for test and safety sieving, for both separation between solids/solids or between solids/liquid in difficult highly reduced spaces, where the reception and unloading of the sieved product are close.
They have a central input and central output, and two lateral vibrating motors. Thanks to the design featuring a minimum height, they can be installed in spaces where other equipment does not fit.
They are usually positioned at the outlet of unloading hoppers, mills, mixers, etc. Manufactured in AISI 304 stainless steel (or AISI 316, on request), joints and elements in contact with the product in accordance with FDA regulations.
Wide range of accessories available, ultrasound sieving, self-cleaning ring systems, peepholes, silicone hatches, and auxiliary accessories to ensure and maintain optimum performance in specific processes.

On request, they can be manufactured under ATEX standards and regulations. Available diameters: 800, 1000 and 1200 mm.

Examples of application:

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



ADVANTAGES

- Very robust
- Easy cleaning
- Allows a single sieve
- Very reduced height
- Central loading and unloading of product
- Reduced maintenance
- Optional rejection outlet

TECHNICAL SPECIFICATIONS

Model	Voltage	Revolutions per min	Power	Weight
FTI-2M-0800-PB	380/400 V @ 50/60 Hz	1500/1800rpm	0,17Kw [x2]	90 Kg
FTI-2M-1000-PB			0,3Kw [x2]	115 Kg
FTI-2M-1200-PB			0,3Kw [x2]	270 Kg

***Weight for standard configuration 1 level + lid

INDUSTRIAL

Circular Sieve Shaker with Lateral Motors

HELIOS

FTI-2M-0550 / 0800 / 1000 / 1200

The HELIOS Sieve Shakers are specially designed for test and safety sieving, for both separation between solids/solids or between solids/liquid. Designed for installation in reduced spaces, where the reception and unloading of the sieved product are close.

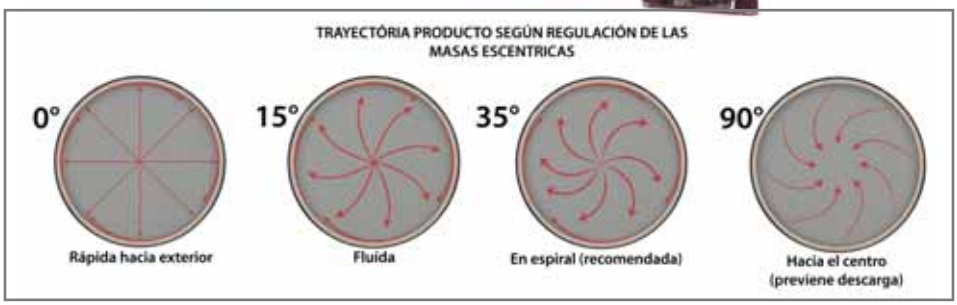
They have a central input and central output, and two lateral vibrating motors. Thanks to the compact design of their structure, they can be installed in reduced spaces, often on production lines. They allow for large product volumes.
They are usually positioned at the outlet of unloading hoppers, mills, mixers, etc.
Manufactured in AISI 304 stainless steel (or AISI 316, on request), joints and elements in contact with the product in accordance with FDA regulations.

Wide range of accessories available, ultrasound sieving, self-cleaning ring systems, peepholes, silicone hatches, and auxiliary accessories to ensure and maintain optimum performance in specific processes.

On request, they can be manufactured under ATEX standards and regulations.
Available diameters: 550, 800, 1000 and 1200 mm.

Examples of application:

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



APPROVED

ADVANTAGES

- Very robust
- Easy cleaning
- Allows a single sieve
- Reduced height.
- High performance
- Central loading and unloading of product
- Reduced maintenance
- Optional rejection outlet

INDUSTRIEL

TECHNICAL SPECIFICATIONS				
Modelo	Voltage	Revolutions per min	Power	Weight
FTI-2M-0550	380/400V @ 50/60 Hz	1500/1800rpm	0,17Kw [x2]	87 Kg
FTI-2M-0800			0,17Kw [x2]	115 Kg
FTI-2M-1000			0,3Kw [x2]	130 Kg
FTI-2M-1200			0,3Kw [x2]	280 Kg

***Weight for standard configuration 1 level + lid

VULCANO

Circular Sieve Shaker

FTI-0300 / 0400

The VULCANO industrial Sieve Shaker is ideal for the sieving of small batches in small production runs (between 5 and 75 kg/h), depending on the product type. They take standard Filtra corner-free laboratory sieves, allowing fast change or replacement, and effective cleaning. Thanks to their reduced diameter, the sieves and bottom of the equipment can be introduced into an ultrasound bath or similar cleaning system.

Each machine can perform up to five separations simultaneously, from #38µ<#25mm.
The unbalance motor facilitates product sieving thanks to its three-dimensional motion.

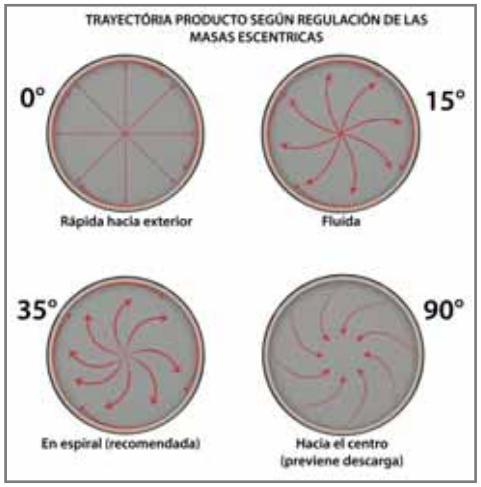
Manufactured in AISI 304 stainless steel (or AISI 316, on request).
The bottom has a lateral outlet through which the obtained product is unloaded. The sieves can be ordered with or without product outlet. In the case of ordering sieves with outlet, the sieving process can be automated.

The standard fixing system for the sieves is with threaded stainless steel bars, bakelite knobs, and an open (for continuous feeding of the equipment) or closed methacrylate lid. Optionally they can come with the easy press quick-release system, metallic lid, and wheels to enable ease of movement.

On request, they can be manufactured under ATEX standards and regulations.

Examples of application:

Chemical products, pharmaceuticals, agricultural products, foodstuffs, paints, sands, seeds, metals, wood, plastics, glass, etc.



APPROVED

ADVANTAGES

- Sieve Shaker for small production runs (pilot plants)
- Laboratory sieves with or without product outlet
- Rapid sieve changing
- Easy cleaning of "corner-free" sieve and equipment bottom
- Hugely versatile. Easy handling.
- Possibility to fit quick-release locks on lid
- Possibility to fit wheels.
- Low maintenance.

TECHNICAL SPECIFICATIONS

Model	Voltage	Revolutions per min	Amperage	Power	Weight
FTI-0300	380/400V @ 50 /60Hz	1500 / 1600 Rpm	0.34 A	0,155 kW	52 Kg
FTI-0400			0.6 A	0,300 kW	57 Kg

***Weight for standard configuration 1 level

INDUSTRIAL

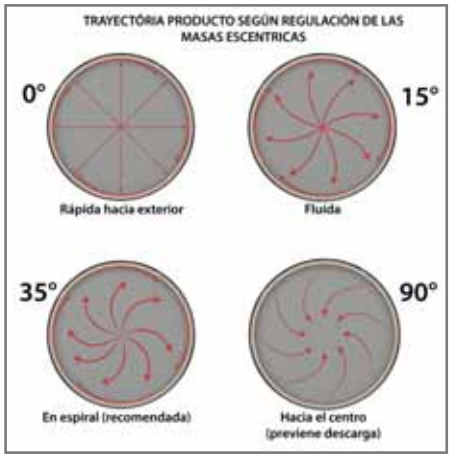
VSIS-0600 / 0800

Sack Tipper table with integrated sieve. A unit used for the reception of loose material in various formats, with security sieving. Designed to prevent contamination of raw materials delivered in sacks, to prevent batch contamination, and the reduction of dust emissions.

Positionable removable cabin, various models available. Production capacities up to 3,000 Kg/hour.
Manufactured in AISI 304 stainless steel (or AISI 316, on request), joints and elements in contact with the product in accordance with FDA regulations.
Available diameters: 600, 800

Examples of application:

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



ADVANTAGES

- Reduction in dust emissions
- Modular, with positionable cabin
- Easy cleaning
- Reduction in dust emissions
- Interchangeable sieves
- Stainless steel removable sack tipper grid
- Sack tipper available in two capacities

TECHNICAL SPECIFICATIONS

Model	Voltage	Revolutions per min	Power	Weight
VSIS-0600	380/400V @ 50/60 Hz	1500/1800 rpm	0,3Kw	185 Kg
VSIS-0800				210 Kg

***Weight for standard configuration with cabin

MINERVA

Centrifugal Sieve Shaker

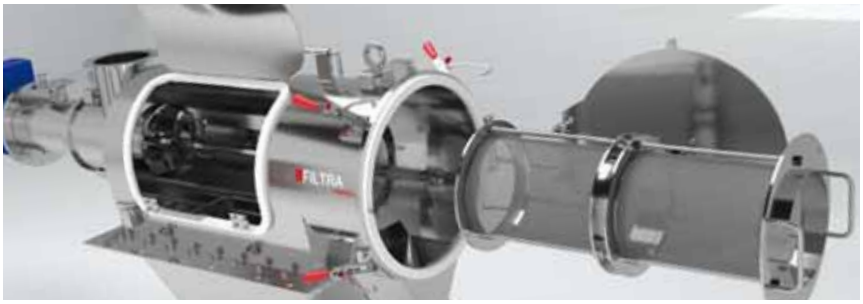
FTIC-0650 / 0800 / 1200

The MINERVA centrifugal Sieve Shakers are used when high productivity is required, with two types of sieving being possible:

• Separation sieving for two different granulometries for loose products with poor flow properties, which are difficult to sieve due to their high water, grease or static electricity content.

• Security sieving for the finished product, 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 of 75µ to 5mm.



The product to be sieved is transported to the interior of the cylinder via a feeding screw, and is distributed over the entire surface of the sieve by paddles. The turning velocity of the paddles creates a centrifugal force which forces the product through the sieve mesh. The larger particles or impurities are separated off. The speed and the paddles can be adjusted according to the product type.

Manufactured in AISI 304 stainless steel (or AISI 316, on request), joints and elements in contact with the product in accordance with FDA regulations.

The set of sieves and axles is easily changed, without the need to use tools, and this facilitates replacement or cleaning.

On request, they can be manufactured under ATEX standards and regulations.
Models available: 600, 800 and 1200.

Examples of application:

Flours, sugars, chocolates, ceramics, varnishes, pigments, plastics, cements, plasters, etc.

ADVANTAGES

• Designed for security sieving for large production batches. High performance
• Rapid change of sieves, without the need for tools.
• Rapid full extraction of the central axle, without the need for tools.
• In cleaning and maintenance operations the interior chamber is free of obstacles.
• Very robust.
• On request, they can be supplied with custom bench or support.
• Silent.
• Reduced maintenance.

TECHNICAL SPECIFICATIONS				
Model	**Voltage**	**Revolutions per min.**	**Power**	**Weight**
FTIC-0650	380/400V @ 50/60 Hz	690 rpm	1,1 kW	160 Kg
FTIC-0800		850 rpm	2,2 kW	280 Kg
FTIC-1200		Variable	4 kW	350 Kg

***Weight for standard configuration 1 level.

INDUSTRIAL

Centrifugal Sieve Shaker

MINERVA

FTIC-0650 / 0800 /1200-ML

The ML series is designed for more reduced spaces, thanks to its lateral motor.

As with the FTIC series, they are used when high productivity is required, with two types of sieving being possible:

• Separation sieving for two different granulometries of loose products with poor flow properties, which are difficult to sieve due to their high water, grease or static electricity content.

• Security sieving for the finished product, 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 of 75 microns to 5 mm.

The product to be sieved is transported to the interior of the cylinder via a feeding screw, and is distributed over the entire surface of the sieve by paddles. The turning velocity of the paddles creates a centrifugal force which forces the product through the sieve mesh. The larger particles or impurities are separated off. The speed and the paddles can be adjusted according to the product type.

Manufactured in AISI 304 stainless steel (or AISI 316, on request), joints and elements in contact with the product in accordance with FDA regulations.

The set of sieves and axles is easily changed, without the need to use tools, and this facilitates replacement or cleaning.

On request, they can be manufactured under ATEX standards and regulations. Models available: 600, 800 and 1200.

Examples of application:

Flours, sugars, chocolates, ceramics, varnishes, pigments, plastics, cements, plasters, etc.

ADVANTAGES

• More compact design than the FTIC series, with a lateral motor with transmission via double belt.
• Designed for security sieving of large production batches. High performance
• Rapid change of sieves, without the need for tools.
• Rapid full extraction of the central axle, without the need for tools.
• In cleaning and maintenance operations the interior chamber is free of obstacles.
• Very robust.
• On request, they can be supplied with custom bench or support.
• Silent.
• Reduced maintenance.

TECHNICAL SPECIFICATIONS

Model	Voltage	Revolutions per min.	Power	Weight
FTIC-0650-ML	380/400V @ 50/60 Hz	690 rpm	1,1 kW	290 Kg
FTIC-0800-ML		850 rpm	2,2 kW	335 Kg
FTIC-1200-ML		Variable	4 kW	410 Kg

***Weight for standard configuration 1 level.

INDUSTRIAL

AIRMATIC 300 / 400 / 500

The Filtra AIRMATIC Sieve Shaker is fitted with a pneumatic vibrating motor, and features the ability to operate without an electricity supply.

It is designed to work indistinctly with solid or liquid products and accepts standard Filtra corner-free laboratory sieves, allowing fast change or replacement, and effective cleaning. Thanks to their reduced diameter, the sieves can be introduced into an ultrasound bath or similar cleaning system. The input for the product is made through the upper part of the equipment, and there is a methacrylate ring which holds the sieve in place.

The product output is via a central outlet hopper.

It is supplied on a stainless steel bench with wheels, for ease of movement, and sieving in various plant areas.

FDA APPROVED CE

Examples of application:

Used in chemical, agricultural recycling water treatment industries, etc. Among others, their main use is in separation processes for solids of various granulometries for a single product, security sieving for the elimination of foreign bodies, homogenisation of particles, etc.

ADVANTAGES

- Operated via a pneumatic system (without electical current).
- Specialised in security sieving.
- Sieve Shaker for small production runs (pilot plants)
- Rapid sieve changing
- Easy cleaning of “corner-free” sieve and equipment bottom
- Possibliity to fit quick-release locks on lid
- Easy handling.
- Low maintenance.

TYPE	VIBRATION / MINUTE - CENTRIFUGAL FORCE - AIR CONSUMPTION															WEIGHT
	4 BAR			5 BAR			6 BAR			7 BAR			8 BAR			
300	RPM	F.C	CONS.	RPM	F.C	CONS.	RPM	F.C	CONS.	RPM	F.C	CONS.	RPM	F.C	CONS.	38
400		Kg	Mc/1		Kg	Mc/1		Kg	Mc/1		Kg	Mc/1		Kg	Mc/1	45
600	4000	72	0.53	4500	91	0.64	5100	117	0.73	5600	141	0.86	6000	161	1	56

***Weight for standard configuration.

INDUSTRIAL

Portable Circular Sieve Shaker

CENTAURO

FTIS-0450 / 0600 / 0800

The CENTAURO Sieve Shakers are compact, light and mobile. They are often used in control sieving and the separation of dry powders, and the separation of enamels and paints, removing solid impurities (foreign bodies) from them.

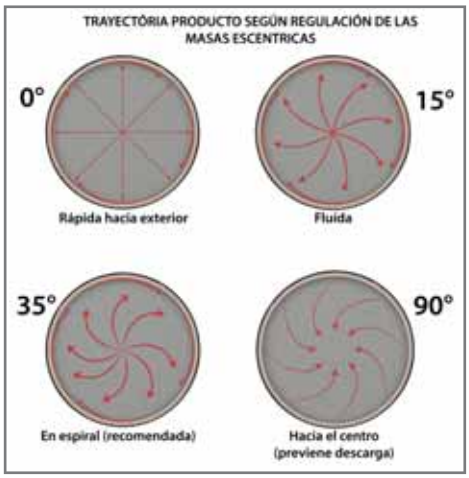
Mobile Sieve Shakers fitted with wheels, with adjustable height and very easy to move, manufactured in stainless steel AISI 304 (or AISI 316, on request), joints and elements in contact with the product in accordance with FDA standards.

They allow a single level of sieving. The sieve is easily interchangeable, with the option to fit self-tensioning fine mesh sieves.

On request, they can be manufactured under ATEX standards and regulations. Available diameters: 450, 600 and 800 mm.

Examples of application:

Enamels, paints, ceramic powders, sands, seeds, chemical products, agricultural products, foodstuffs, etc.



ADVANTAGES

- Mobile equipment
- Sieve Shaker for small production runs (pilot plants)
- Rapid change of sieves
- Easy cleaning of "corner-free" sieve and equipment bottom
- Easy handling.
- Self-tensioning sieves (fine mesh) can be fitted on request
- Low maintenance.

INDUSTRIAL

TECHNICAL SPECIFICATIONS				
Model	Voltage	Revolutions per min.	Power	Weight
FTIS-0450	380 /400V @ 50/60 Hz	1500/1800rpm	0,155 kW	42 Kg
FTIS-0600			0,300 kW	47 Kg
FTIS-0800			0,300 Kw	60 Kg

***Weight for standard configuration.

FTMV-16 / 25 / 75 / 250

The ATENEA industrial mixer is used to obtain perfect homogenisation of solids with solids (in equal proportions), and solids with liquids (a maximum of 10% solids with respect to liquids), in powdered or granulated form.

It has a V-shaped body with two loading inlets, and one outlet, with a butterfly valve to facilitate output of the mixture. Thanks to the V-shape it is possible, by turning the body 360º, to produce axial currents inside which separate and unite the products to be homogenised. This, along with the radial mixing action, produces an extremely homogeneous result (in the proportion of 1 to 10,000 parts).

It is possible to add an intensifying bar inside the body, which breaks up clumps and reduces the mixing time. Atomised liquids can be added through this intensifying bar.

It has a polished mirror finish, with various degrees of polishing in accordance with requirements.

The mixing time varies depending on the complexity of the mixture. There are various models available, with capacities for 16, 25, 75, 250 and 750 litres of product.

OPTIONAL:

- Intensifying bar / humidifier (stirrer).
- External electrical panel.
- Safety protection barriers.
- Finishes and qualities.

MODEL	Digital Timer	Voltage	Mixer power (Kw)	Intensifying bar power (Kw)	Useful volume (l)	Weight (kg)
FTIMV-16	0 - 90 min.	230 V 50 Hz	0,120	0,100	8	55
FTIMV-25	0 - 90 min.	230 V 50 Hz	0,180	0,100	12,5	80
FTIMV-75	0 - 90 min.	380 V 50 Hz	0,75	2,2	37,5	200
FTIMV-250	0 - 90 min.	380 V 50 Hz	2,2	3	125	250

***Weight for standard configuration.

Examples of application:

Flours and other powdered or granulated foodstuffs, pigments, colourings, glass fibre, powdered or granulated plastics, pesticides, herbicides, fertilisers, polymers, pharmaceutical products, chemical products, etc.

ADVANTAGES

- Precision mixing. Maximum product homogenisation.
- High quality of materials and finishes.
- Free from interior angles and corners; no accumulation of product residue.
- In cleaning and maintenance operations the inner chamber is free of obstacles.
- Very robust.
- On request, they can be supplied with custom bench or support.
- Silent.
- Reduced maintenance.

INDUSTRIAL

RECTANGULAR SIEVE SHAKER FTV- 1000

Filtra Vibration manufactures a range of rectangular separators: the FTV series. When custom-made they can be used for solid materials with a variety of particle sizes.

They are manufactured in accordance with the needs of each client, and the specific requirements of each plant.

They run using one or two regulable unbalance vibrators. They can operate suspended from plant structures, or supported on a bench.

The sieves are quickly and easily interchangeable.

Possibility to custom-manufacture, in accordance with the client's needs. Manufactured in A304, A316 stainless steel or carbon steel, in accordance with requirements.

ATEX certification optional.

3D Motion

POSSIBILITY TO MANUFACTURE FOR EXPLOSIVE ATMOSPHERES

It includes:

- FTV-1000 Sieve Shaker
- Instructions Manual
- EC declaration of conformity

TECHNICAL SPECIFICATIONS				
Model	**Voltage**	**Revolutions per min.**	**Power**	**Weight**
FTV-1000	380/400V @ 50/60 Hz	1500/1800rpm	95W	158 Kg

***Weight for standard configuration.**

ADVANTAGES

- Easy to install
- Designed for wet or greasy products, or products which are electrostatically charged.
- Very robust.
- Silent.
- Easy cleaning.
- Reduced maintenance.

INDUSTRIAL

Direct manufacture of industrial sieves with stainless steel mesh and nylon mesh. Relined with various configurations (double mesh, centres, perforated plates, etc.)

Manufacture of accessories for circular sieve shakers, rapid-release clamps with safety catch, supply of set of springs to fit for the full installation of integrated sieve shakers.

Manufacture of cylindrical sieves for centrifugal sieves, in various materials and qualities. Example of a triangular sieve cylinder.

Supply and fitting of connectors, bags and flexible lids with the Rápido BMF® system.

Electrical control panels for industrial equipment, with the possibility to supply them with Ex classification.

Full supply of joints, special profiles, and inspection lids in food-standard silicon.

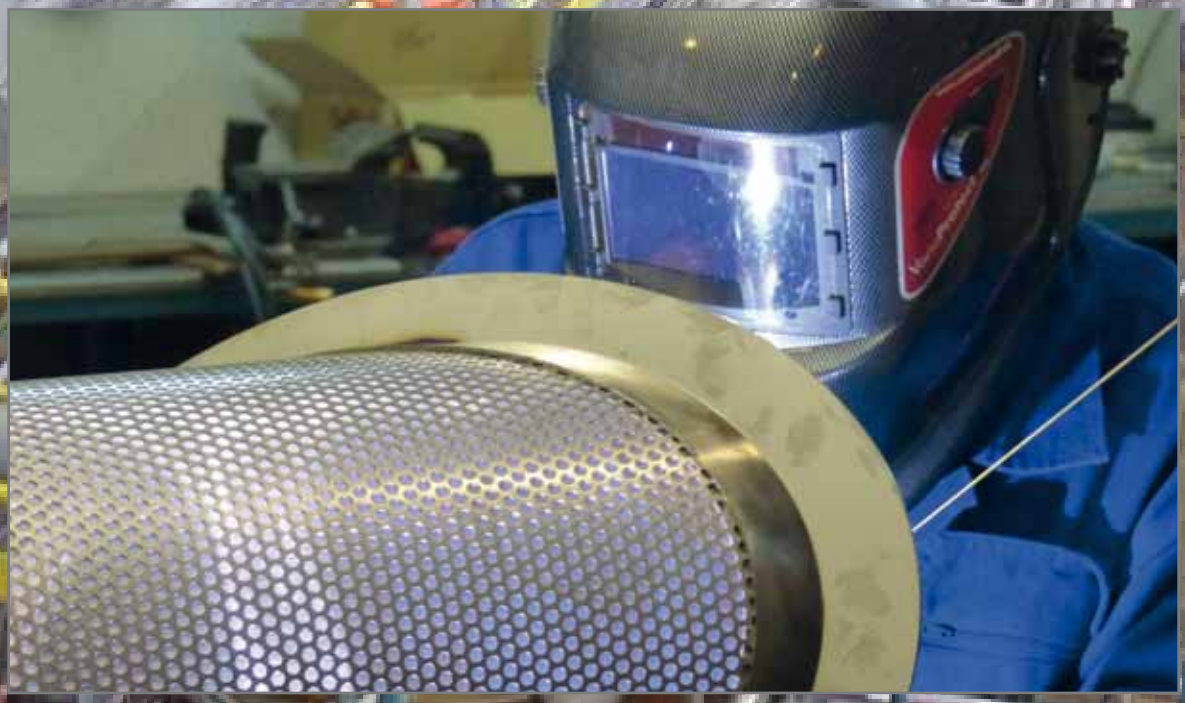
Supply and installation of vibrating motors for our entire equipment range. With ATEX certification, on request.

Systems for the self-cleaning of sieves in continuous sieving processes, for solid particles.

Manufacture of sleeves in non-metallic materials and stainless steel, for centrifugal sieving equipment.

FILTRA
VIBRACIÓN

Industrial filters



FILTERS

Industrial filters

METALLIC FILTERS

At FILTRA VIBRACIÓN, S.L. we are specialists in the manufacture of filters and sieves for industrial use. Our team has over 25 years' of experience in this field, and works together with our clients to develop solutions in filter consumables for a wide range of industrial sectors, including chemicals, petrochemicals, pharmaceuticals, agriculture, food, ceramics, etc.

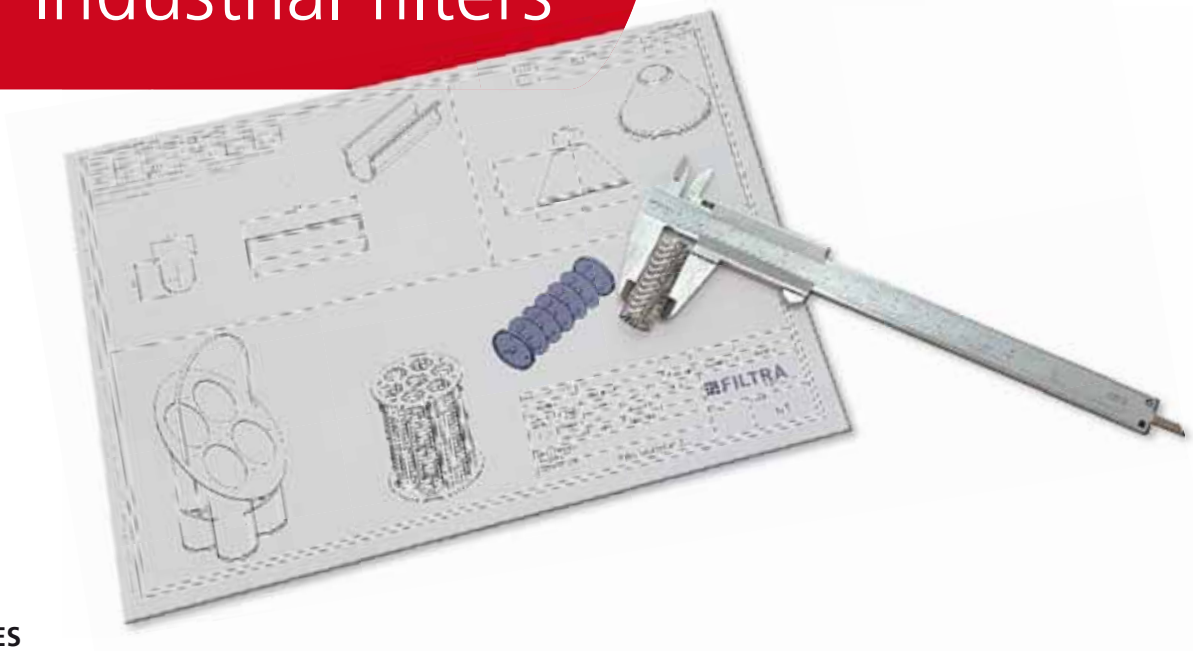
We manufacture a wide range of filters in AISI 304 or AISI 316 stainless steel: cylindrical filters, "Y" filters, DN25 to DN 600; filter baskets DN25 to DN600; pleated filters with one or more mesh layers; conical and frusto-conical temporary filters; "T" filters; interchangeable plugs; mesh discs, etc.
Developing customised solutions in a variety of shapes and sizes.

We have a permanent stock of over 200 lines in stainless steel metallic mesh, to be able to satisfy the needs of each client.
We can develop any filter product based on need.

Ex: Temporary conical and frusto-conical filters.

Ex: Manufacture of customised cylindrical filters, die-cutting, discs, special filters, etc.

We develop and manufacture customised products, from the client's plans or specifications, from a single unit to a large production run.



METALLIC SIEVES

We manufacture all manner of customised metallic sieves, with rubber seals, silicon (FDA) and all manner of reinforcements. AISI304 and AISI 316 standard manufacturing quality.

MESH FILTERS FOR FILTER BAG SUPPORT

ADVANTAGES

- Customised design according to the client's needs.
- Manufacture from a single unit to a large production run.
- Specialists in fine mesh welding.
- 25 years' experience
- S/ISO9044 industrial mesh from 38µ
- Sintered special elements from #5µ
- Various configurations (plate + mesh/meshes, etc,)
- Special customised machining

Industrial filters

“Elipse” basket
Ellipsical “sieve” basket filter for vertical or horizontal baskets or multi-basket, manufacture of products with overmesh, without overmesh, and special configurations designed for jobs with blowing against the current. Filtering from 5µ (according to the configuration). AISI304 and AISI 316 standard manufacturing quality.

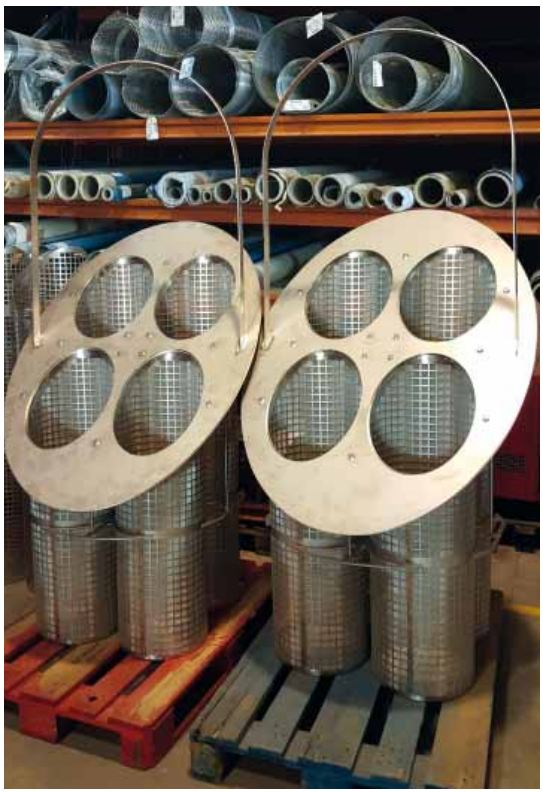
Temporary conical and frusto-conical filters.
From DN50-2” to DN600-24”, manufactured with overmesh, without overmesh, and in special dimensions. Filtering from 5µ (according to the configuration). AISI304 and AISI 316 standard manufacturing quality.

Regrooving type
“Sieve” cylinders manufactured in precision micro-perforated plate from ø0.5<ø3mm, with the possibility of interior regrooving machining. AISI304 and AISI 316 standard manufacturing quality.

Frusto-conical sieves
Frusto-conical “sieve” filters manufactured in precision micro-perforated plate with open-ended (manufactured in a single piece) or machined bottoms, and electro-polished surface finishes. AISI304 and AISI 316 standard manufacturing quality.

Sintered cartridges
Cartridges manufactured in sintered material from #5µ, with multiple layers of sintered mesh, in accordance with application. Possibility to deliver customised discs, plates and sundries. AISI304 and AISI 316 standard manufacturing quality.

Customised solutions
Manufacture of various customised filtering elements, pleated, cylindrical or funnel filtering elements. Customised machining, diverse mesh pressing and shaping processes.



Industrial filters

Triangular profile
Filtering cartridges from 200µ, using highly robust arc-welded V profiles. AISI 304 and AISI 316 standard manufacturing quality.

Pleated cartridges
Manufacture of various filters with pleated mesh/meshes, in various configurations. AISI304 and AISI 316 standard manufacturing quality.

NON-METALLIC FILTERS

We supply synthetic filters in polypropylene, polyester or polyamide, such as: filtering sleeves and bags, mini-sleeves, filtering discs, cartridges, fabrics for fluidisation, and nylon mesh.

METALLIC MESH

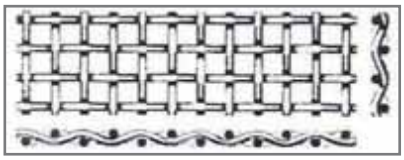
We have a large stock of meshes in AISI 304 and AISI 316, meeting ISO 9044, to supply in rolls, panels, or by the metre: flat, herringbone, corrugated, arc-welded, sintered, Dutch woven, etc.

Table of standardised mesh holes for industrial sieve manufacture.

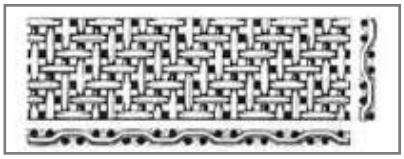
Light series		
Light (mm)	Ø Wire (mm)	% Useful surface
1,440	0,300	68,80
1,126	0,280	66,50
1,150	0,240	68,50
1,030	0,230	66,50
0,880	0,230	62,40
0,726	0,200	62,00
0,594	0,200	55,20
0,534	0,160	58,20
0,457	0,160	55,50
0,416	0,140	57,10
0,385	0,120	56,50
0,343	0,120	53,80
0,307	0,120	52,50
0,277	0,120	49,70
0,270	0,100	53,10
0,247	0,100	51,80
0,219	0,090	50,60
0,198	0,080	51,80
0,188	0,090	45,60
0,173	0,080	46,30
0,161	0,070	48,30
0,150	0,063	49,30
0,128	0,070	49,30
0,125	0,060	45,50
0,124	0,050	50,10
0,104	0,050	45,20
0,089	0,050	40,90
0,080	0,050	46,30
0,075	0,036	36,20
0,063	0,063	34,80
0,056	0,036	35,30
0,049	0,030	34,80
0,042	0,036	28,00
0,040	0,030	33,20
0,025	0,025	24,90

Strong series		
Light (mm)	Ø Wire (mm)	% Useful surface
19,716	2,5	78,80
11,880	2	73,40
9,5	1,6	73,40
7,96	1,3	73,70
5,84	1,1	70,30
4,56	1	67,00
4	1	64,30
3,73	0,9	64,80
3,17	0,8	63,60
2,77	0,7	63,50
2,39	0,7	59,40
2,18	0,6	61,40
1,81	0,5	60,90
1,48	0,5	55,50
1,3	0,44	54,30
1,12	0,42	52,10
0,99	0,40	50,60
0,75	0,36	45,50
0,606	0,32	43,20
0,514	0,28	41,20
0,454	0,24	41,90
0,36	0,20	41,30
0,283	0,18	36,40
0,237	0,16	36,40
0,207	0,14	36,40
0,189	0,12	37,00
0,168	0,11	36,40
0,153	0,10	36,10
0,141	0,09	37,00
0,125	0,08	35,20
0,111	0,063	40,00
0,104	0,050	45,63
0,088	0,050	40,75
0,076	0,045	36,55
0,061	0,045	30,25
0,057	0,035	38,30
0,049	0,030	31,00
0,039	0,030	33,70
0,032	0,025	31,00
0,025	0,025	25,00
0,020	0,020	25,00

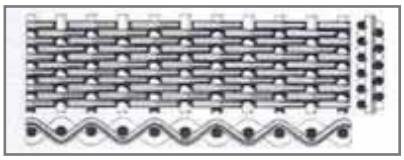
Extra-strong series		
Light (mm)	Ø Wire (mm)	% Useful surface
25	3	79,50
19,72	2,5	78,80
16,51	2	79,40
10	2,2	67,00
8	2	73,00
6,3	1,6	64,00
5	2	51,00
5	1,2	65,00
4	1	64,00
3	1	56,00
2,5	1	51,00
2	1	44,00
1,6	0,70	48,00
1,5	1	36,00
1,23	0,5	51,00
1,18	0,55	47,00
1,08	0,65	39,00
0,9	0,36	51,00
0,82	0,44	42,00
0,71	0,40	41,00
0,52	0,40	32,00
0,40	0,22	42,00
0,30	0,20	36,00



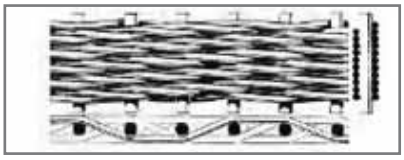
Flat square weave



Flat herringbone weave



Joined Dutch weave



Joined herringbone Dutch weave

Installations

Model FTI-0800ATEX Sieve Shaker Zone 22 3D T4 with #125µ mesh, installed with electrical control panel on a moveable surface, according to the client's specifications.

FTIMV- 100L UVE industrial mixer, integrated control panel with programmable automaton and touchscreen to access editable programme menu. Features optical security barriers.

Sieving application for the separation of particles in suspension in the form of powder (#150µ). Sieve shaker adapted to fluid bed line.

FTI-0800 circular sieve shaker on silo unloading line, with #1.2mm mesh for the separation of spices (thyme, cinnamon) at a rate of 1,000Kg/hour.

Model FTIC-0800 centrifugal sieve shaker with #300µ mesh, for the sieving of a mixture of flours on a continuous bagging line.

Separation sieving for BIG BAG loading using FTI-1200 sieve shaker, through three separations on a PET recycling line, with a rate of more than 2,000Kg/hour.

Sieve shaker for granulometric separation at a chemical plant, installed outdoors for raw material recovery. FTI-1500 sieve shaker with four simultaneous separations.

Example of applications for sieving on a line with FTI-1200 and FTI-0550 sieve shakers working in cascade.

Model application of the FTI-1200 for viscous products (glues), to T eliminate impurities on a production line.

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REV.02/17