Vibrating screens and separators

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Dear Valued Customers,

Thank You for Your support and the confidence You have shown in Vibrowest as we celebrate the 50th Anniversary of company.

We look forward to continuing to serve You and pledge to continue development and research to make products that will help Your company be more productive and efficient.

Thank You for doing business with Vibrowest.

(C.E.O. Vibrowest S.r.l.)
## INDEX

<table>
<thead>
<tr>
<th>Page</th>
<th>Description</th>
<th>Brand</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Circular vibrating sieve</td>
<td>MR</td>
</tr>
<tr>
<td>6</td>
<td>Centrifugal sieve</td>
<td>TURBOWEST</td>
</tr>
<tr>
<td>8</td>
<td>Circular sieve</td>
<td>MSC</td>
</tr>
<tr>
<td>10</td>
<td>Nutation sieve</td>
<td>VAN</td>
</tr>
<tr>
<td>12</td>
<td>Rectangular sieve</td>
<td>VR</td>
</tr>
<tr>
<td>14</td>
<td>Weston sieve</td>
<td>WESTON</td>
</tr>
<tr>
<td>16</td>
<td>Static sieve</td>
<td>WESTON</td>
</tr>
<tr>
<td>17</td>
<td>Ultrasonic system</td>
<td>TURBOSONIC</td>
</tr>
<tr>
<td>18</td>
<td>Spare parts and accessories</td>
<td></td>
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</tbody>
</table>
VIBRATING SIEVES MOD. MR WITH VIBRATING MOTOR

The adjustment of the amplitude and the movement of the particles on the screen, are obtained by means of the positioning of the counterweights of the upper and lower flywheels.

- No mounting pads are required.
- Quiet operation.
- All the parts in contact with the material can be supplied in stainless steel AISI 304-316 or in carbon steel.
- Possibility of separating materials up to 5 different sizes.
- Easy installation and removal of the meshholder rings.
- Extremely rugged mechanical construction.
FIELDS AND AREAS OF USE:
- FOODS
- CHEMICAL
- PHARMACEUTICAL
- PLASTIC
- FODDER
- CERAMIC
- BUILDING
- WASTE RECYCLING
- PAINTS
- HERBAL
- COSMETIC

TECHNICAL DATA

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<th>MOD. MR</th>
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<th>Ø B</th>
<th>Ø C</th>
<th>ØD</th>
<th>Ø E</th>
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APPLICATION
TURBOWEST

• Control sieving.
• Conditioning of bulk materials.
• Homogenizing of mixtures.
• Crushing of friable lumps.

PRODUCTS HANDLED

- Phosphates, Salt, Gypsum, Talc, Casein, Milk powder,
- Dehydrated vegetables, Dyes, Pigments, Cocoa,
- Detergent powders.
- Insecticides, Pesticides, Fertilizers, Resins, PVC, Powder
- Coatings, Pharmaceuticals, Sugar, Plastic chips,
  and so on.

OPERATION

The product is fed into the sifter trough inlet with the feed screw providing uniform feeding into the sifting chamber, where the product is transported along the sifting surface by rotating paddles or brushes, which distributes the product on the screen.

Feeding must be continuous and uniform, for optimum performance.

The finest material will exit via the central outlet connectable to any piping system.

The material that does not pass through the screen will be discharged through the side outlet.
FIELDS AND AREAS OF USE:

- PHOSPHATES
- SALT
- GYPSUM
- TALC
- CASEIN
- MILK
- POWDER
- DEHYDRATED VEGETABLES
- DEYES
- PIGMENTS
- COCOA
- DETERGENT POWDERS
- INSECTICIDES
- PESTICIDES
- FERTILIZERS
- RESINS
- PVC
- POWDER COATINGS
- PHARMACEUTICALS
- SUGAR
- PLASTIC CHIPS
- AND SO ON

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<td>80</td>
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VBRATING SCREEN MOD. MSC
with central feeding and discharge

• Suitable for control sieving with high feeding rates and continuous discharge.
• Compact construction.
• Low profile design.
• Five models with 400 - 600 - 900 - 1200 - 1500 mm diameter.
• Depending on the product to be sieved, following anti mesh binding devices can be mounted: balls, kleeners or ultrasonics.
• Parts in contact with the product made from AISI 304 - 316 stainless steel or painted carbon steel.
• Easy installation and quite running.
• Easy to disassembled for cleaning.

MSCR – MANUAL BAG DUMPING UNIT WITH INTEGRATED CONTROL VIBRATING SCREEN

• Hood for dust extraction
• Bag supporting grid and meshring easy to be disassembled for a good and quick cleaning.
• Parts in touch with the product made from AISI 304 – 316 stainless steel or painted carbon steel
• Compact construction
• Low profile design.
• Easy to be installed and noiseless running
### TECHNICAL DATES

**OVERALL DIMENSIONS MOD. MSC**

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<th>Ø A</th>
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**OVERALL DIMENSIONS MOD. MSCR**

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Vibrowest tumbler screening separator is used for control screening, separation and dust removal in dry, powdered and granular products. The tumbler screening machine has a three-dimensional movement similar to the simple hand screening of the “gold washing pan”. The three-dimensional movement has better efficiency and a higher screen load as compared to vibration alone system.

APPLICATIONS

Vibrowest tumble screeners have stable screen motion even under full load. They are particularly suitable for high feed rates and multi deck separations of fine, lightweight products which are difficult to screen. Easy regulation and low frequency vibrations guarantee the following advantages:
- Sensitive products are handled gently with no breakdown of the particles.
- Precise control of the product time on the screen
- Screening efficiency up to 99% with constant product quality.

ADVANTAGES

- Easy to install, can separate particles from 1 to 6 sizes with up to 5 screen decks incorporated in one Vibrowest separator.
- Standard model range in diameter size from 1.200 mm to 2.600.
- Screens are easy and quickly changed.
- Screens can be equipped with various cleaning system as: rubber balls, rotating plastic roller brush and the innovative ultrasonic cleaning system.
- The separator can be built to customer specification with carbon steel, stainless steel AISI 304, stainless steel AISI 316.
- On request: ATEX certification, FDA IQ-QQ procedure, GMP
- All product contact areas can be polished in accordance with local sanitary standard.
**FIELDS AND AREAS OF USE**
- Chemistry
- Fertilisers
- Animal Feed
- Timber and chipboards
- Plastic
- Metal
- Foodstuff, Spices
- Pharmacy
- Recycling
- Stones and soil
- Sugar and salt

**TECHNICAL DATA**

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</table>
RECTANGULAR VIBRATING SCREENS

Vibrowest manufactures several different kinds of rectangular separators that can be used for test screening to segregate solids from liquids or dry material into various particle sizes.

Rectangular separators are made according to customer needs and the specific plant requirement.

Rectangular separator main characteristics:

- Vibration is activated by one or two vibrating motors with adjustable out-of balance force.
- Vibration develop in the horizontal and in the vertical plane and can be set in both directions.
- The vibrating motor design allows to adjust easily the counterweight and modify the vibration to find the best way to sieve a product (for gentle screening, long through put times, high volume or difficult to screen products).
- High screening efficiency both with liquid and solid products.
- Vibrating motors are of standard manufacture and provide reliable power.
- High quality suspension that virtually eliminates transmitted vibrations.
- Screens are easy and quick to change and can be equipped with rubber ball cleaning system.
- Built to customer specification with carbon steel, stainless steel AISI 304, stainless steel AISI 316.
- ATEX certification, FDA IQ-QQ procedure, GMP on request.
- Product contact areas can be mirror polished in accordance with local sanitary standards.
VIBRATING SCREENS

Rectangular vibrating screens are a viable alternative to the circular screens, especially when high capacity is required. Screens are available in stainless or carbon steel and suitable for sieving powder or granules with up to 4 separations. Simple design ease to maintenance and cleaning with high uptime are desirable qualities rectangular sieves offer.

FIELDS:
- FOODS
- CHEMICAL
- PLASTIC
- FEED
- ECOLOGY
WESTON PORTABLE SIEVES

The rotatory vibration principle of the Weston screens operate, enables to obtain:

- Very high and constant output
- Possibility of operating even with the finest mesh up to 400 B.S. (mesh opening 0.033 mm).
- Virtual elimination of mesh binding longer meshlife (stainless steel, phosphor, bronze, nylon, etc.)

Continuous oversize rejection.

FUNCTION AND USES

- Filtering of liquids and semi-liquids, separations of solids and continuous removal of discarded material.
- Separation of powders and granules
- Fine meshes up to 33 micron available.
- Easy to change interchangeable sieves.

TECHNICAL CHARACTERISTICS

- High quality cast iron frame and special stuctural steel
- Electric three-phase motor, 1.5 KW, 1400/2800 R.P.M. (Explosionproof Eexd II B T 4 on request).
- Suspension and coupling connection constructed of neoprene.
- Vibrations amplitude adjustable from 0 to 6 mm.
- Machine mounted on three rubber covered wheels, two fixed and one steerable for easy portability.
WESTON 503

The rotary vibration principle, on which Weston screens operate, enables to obtain: very high and constant output.

- Possibility of operating even with the finest mesh, up to 400 B.S. (mesh opening 0.033 mm)
- Virtual elimination of mesh binding
- Longer meshlife (stainless steel, phosphor bronze, nylon, etc.)
- Continuous oversize rejection

WESTON 503/3

Double Deck unit – 3 different sizes on continuous operation

It is a variant of the model 503 (1,400 Rpm).
The three different sizes are obtained through the adoption of two superimposed sieves, both provided with Rotoflow device.
An intermediate cone, inserted between the two decks, allows the central feeding of the lower deck.
Powered by a 1.5 KW electric motor.
Vibration is amplitude easily adjustable.

WESTON 605

High speed Unit, for viscous liquids

Powered by a 1.5 KW, 2,800 R.p.m. electric motor, this model is particularly suitable for very viscous liquids or materials requiring a higher vibration frequency.
Vibration amplitude easily adjustable.

ROTOWEST

2 sizes available
Specifically developed for small industries with limited requirements or for low volume secondary jobs.
It may be fitted with a cover, a Rotoflow device and anti-clogging devices such as Starbrush and Everclean.
APPLICATIONS

- Water purification companies and organizations
- Paper mills
- Distilleries
- Crushers
- Food industry
- Canneries
- Aviculture
- Fishing industry
- Municipalities
- Pig-sties
- Delicatessen factories
- Soap factories
- Sugar factories

OPERATIONS

The solid and liquid materials conveyed by the pipe slide on the selection surface having differentiated inclination, in stainless steel AISI 604 or 316. The product is then separated by capillarity thanks to the special section of the bars and to the millimetric separation existing between the longitudinal profile wires. The solid is conveyed by gravity towards the discharge of the Weston Static in an easy to shovel state while, the liquid flows from the pipe to the lower collection basin.

ADVANTAGES

Having neither mechanisms nor moving parts, it does not require any overhauling or particular maintenance.
Due to the physical characteristics of some powders, mechanical movement of the sieve is not sufficient, this leads to frequent mesh cleaning and subsequent downtime.

The Turbosonic system can be a solution for sieving hard to sieve materials. The Turbosonic utilizes ultrasound to impart microvibrations to the individual wires of the sieve. These microvibrations virtually eliminate clogging of the mesh while processing fine powdered materials. The Turbosonic is especially effective when the sieving mesh is <200 microns. The constant microvibrations boost efficiency and decrease the time needed for the separation of material.

The TURBOSONIC is particularly suitable when the meshopening of the net is very fine (< 200 µm), allowing the efficacy (% of the fine fraction separated from the coarse) and the efficiency of the sieving operation (time of sieving).

The Turbosonic system can eliminate the need for using ball or brush screen cleaning systems that decrease screen life. The frequency of vibration can be regulated while the machine is running, adjustments can be made “on the fly”, increasing throughput and efficiency

**Turbosonic Advantages:**
- Highly efficient screening of fine powders
- Especially effective on powders with a oil base that tend to clump together
- Increased screen life
- “On the fly” adjustment for high efficiency
- Higher throughput and efficiency
Whatever replacement parts you require, Vibrowest stocks them. A broad range of accessories and available for Vibratory separators. Vibrowest replacement components are made of high quality materials and are thoroughly inspected to ensure strict quality standards.

To accommodate many different applications, Vibrowest offers screen gaskets in many profiles and in every diameter available in a variety of materials including fluoroelastomer, silicone, Thermoplastic Elastomer (TPE), neoprene, nitrile, silicon, hydac and EPDM, FDA listed materials for contact with food products are also available.

**SPARE PARTS & ACCESSORIES**

**RUBBER BALLS, KLEENERS AND DEBINDING SYSTEMS**

System are available to solve you most difficult sieving separations applications. Contact your local representative of our technical department for assistance in selecting the correct system for your application.

**RESCREENING SERVICE**

We fit and replace screens using specialized equipment to ensure perfect results. Affordable pricing and various mounting methods make Vibrowest’s replacement screens second to none.

Our fast priority service is designed to reduce waiting times to an absolute minimum. We can supply or recondition every type of screen: rectangular, round, etc.

We manufacture cloth-edged screens, round screens, and perforated plate to meet the requirements for all the screening equipments.