Screening machines for pharmaceuticals, food and fine chemicals
Hygienic Design for highest demands
Tumbler and Vibration screening machines in compliance with GMP-design.

For applications in pharmacy, food and fine chemicals, ALFA-LABOR produces tumbler and vibration screening machines according to GMP and FDA regulations.

These specialized machines are used for the treatment of valuable products, public and granules.

The logistic design includes solutions for WIP-cleaning devices and ATEX-certification.

<table>
<thead>
<tr>
<th>Applications</th>
<th>Protective screening</th>
<th>Fractionating</th>
<th>Dedusting</th>
</tr>
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<tr>
<td>Tumbler screening machine TSM</td>
<td>●</td>
<td>●</td>
<td>●</td>
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<tr>
<td>Vibration screening machine DEG</td>
<td>●</td>
<td>●</td>
<td>●</td>
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<tr>
<td>Vibration screening machine TSM</td>
<td>●</td>
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<th>High Tech Solutions</th>
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<th>Surface qualities</th>
<th>Options</th>
<th>Screen inserts</th>
<th>Ultrasonic mesh cleaning device</th>
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<tr>
<td>The ALFA-LABOR production programme offers innovative and proved solutions for</td>
<td>● surface roughness up to Rz ≤ 2 µm</td>
<td>● electroplated</td>
<td>Tipped cover</td>
<td>- Internal screen</td>
<td>- Ultrasonic mesh cleaning device</td>
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<tr>
<td>- fractionating</td>
<td>● glass beads layed</td>
<td>- pointed cover</td>
<td>- external screen</td>
<td>- Tipped flanges with rinsing nozzle or both sides</td>
<td>- Ultrasonic screen basket</td>
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<tr>
<td>- protective screening</td>
<td>- welded and passivated</td>
<td></td>
<td></td>
<td></td>
<td>- Bas insulator with cleaning needles</td>
</tr>
<tr>
<td>- dedusting</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>- Vibration screening machines VTIS 530</td>
</tr>
</tbody>
</table>

| Material and design of the screening machine can be adapted to the specific need. This results in increased productivity and adapting the flooding screening machine. | For simple applications vibration screening machines, type VTIS or VTS, are an economic alternative. | - | | | - Vibration screening machines VTIS 530 with flanged cover |

| For a long time already ALFA-LABOR screening machines are known as high-performance screening machines for fractionating, protective screening and dedusting. The three-dimensional tumbling movement cyclic proportionate the ratio of the individual fractions. As a result the production of additional fractions through additional screening devices in one machine.

In many applications ultrasonic mesh cleaning devices that buld solids, which over time be "incrustable", can be screened. Ultrasonic mesh cleaning may replace conventional mesh cleaning devices. (Ultra-screening) 

- Automatic cleaning
- Continuous cleaning
- Rust and dirt tight
- Silicone seals, mesh glue and flexible connection with T5A certificate
- Inconel, Inconel 600
- | | | | |

- Vibration screening machines VTIS 530 with removable support
### Tumbler and Vibration screening machines in compliance with GMP-design.

For applications in pharmacy, food and fine chemicals, ALGARIN produces tumbler and vibration screening machines according to GMP and FDA regulations. These specially designed machines are used for the treatment of valuable products, public health and animal feeds.

The High Tech Design includes solutions for: WIP-cleaning devices and ATEX certification.

### High Tech Solutions

- The ALGARIN production programme offers innovative and proved solutions for:
  - Fractionating
  - Protective screening
  - Dedusting

Molded design of the screening machine can be adapted to the specific need. This results in increased productivity and efficiency of the screening machine. Specialized for design options are such action clamps or covers. When the product is changed, the machine can be adjusted to best suit the new production or additional functions through additional screening units in one machine.

### Applications

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<td>✗</td>
<td>✗</td>
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<tr>
<td>Vibration screening machines VSM</td>
<td>✗</td>
<td>✗</td>
<td></td>
</tr>
<tr>
<td>Vibration screening machines VTS</td>
<td>✗</td>
<td>✗</td>
<td>✗</td>
</tr>
</tbody>
</table>

### Highest product quality

- Surface roughness up to Rmax = 0.8 μm
- Electroplated
- Glass-bead blasted
- Packed and passivated
- Welding seam ground down to metal plate

### Surface qualities

- For a long-time already ALGARIN tumbler screening machines are known as high-performance screening machines for fractionating, protective screening and dedusting. The three-dimensional tumbling movement creates optimal access of the products to the media. In addition, the production of additional fractions through additional screening units in one machine.

### Options

<table>
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<tr>
<th>Screen inserts</th>
<th>Ultrasonic mesh cleaning device</th>
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<tbody>
<tr>
<td>Internal screen</td>
<td>Ultrasonic mesh cleaning devices</td>
</tr>
<tr>
<td>External screen</td>
<td>Multidisc diffusion</td>
</tr>
<tr>
<td>Turned frames with bearings or support with poli</td>
<td></td>
</tr>
</tbody>
</table>

In many applications, ultrasonic mesh cleaning devices that buld solids, which are not the “endurable,” can be cleaned. Furthermore, ultrasonic mesh cleaning can replace conventional mesh cleaning devices. The ultrasound waves can be adjusted to meet the requirements.

### Surface with cleaning needles

Cover with cleaning needles

### Ultrasonic mesh cleaning device

Ultrasonic screen inserts

Base cylinder with cleaning needles

Ultrasonic mesh cleaning device VTS 650 with folded cover

Ultrasonic mesh cleaning device VTS 650 with movable support
Tumbler and Vibration screening machines in compliance with GMP-design.

For applications in pharmacy, food and fine chemicals, ALGARIN produces tumbler and vibration screening machines according to GMP and FDA regulations.

These specialised machines are used for the treatment of valuable powders, pellets and granules.

The Hygienic Design includes solutions for WIP-cleaning devices and ATEX certification.

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### High Tech Solutions

The ALGARIN production programme offers innovative and proven solutions for:

- Tumbling
- Fractionating
- Protective screening
- Dedusting

**Material and design of the screening machine can be adapted to the specific need.** This results in increased productivity and efficiency of the all screening machine. Economical design solutions are quick action clamps or quick change screen. Changing screens is not a problem when the product is changed.

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### Highest product quality

For a long time already ALGARIN tumbler screening machines are known as high performance screening machines for fractionating, protective screening and dedusting. The three-dimensional tumbling movement creates exceptional mixing. The result of the continuous process in combination with the production of additional fractions through additional screening bodies in one machine.

For simple applications vibration screening machines, type VTS or Vibrall, are an economic alternative.

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### Surface qualities

- Surface smoothness up to Rz 1.4 µm
- Electroplated
- Glass bead blasted
- Padded and passivated
- Welding seam ground even to metal plate

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### Options

-housing cover
- static alarm clamps
- bouncing ball cleaning in pharmaceutical design
- Ultrasonic cleaning devices
- ATEX certification
- Multi-sided models
- IQ / OQ / PQ documentation
- Invasive supports
- Dust and gas tight
- Silicone gasket, mesh gauze and replaceable connectors with quick-seating function
- Certificate of compliance
- Inspection plug and tapped holes

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### Screen inserts

- Internal screen
- External screen
- Turned filters with springs seating on both sides

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### Ultrasonic mesh cleaning device

In many applications Ultrasonic mesh cleaning devices that bulge solids, which should be "extractable", can be used. Furthermore Ultrasonic mesh cleaning may replace conventional mesh cleaning devices. (Stainless steel, brush, knife, product) Several solutions can be related by mesh but not acceptable.

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<tr>
<td>Vibration screening machine Vibrall</td>
<td>✓</td>
<td></td>
<td></td>
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<tr>
<td>Vibration screening machine VTS</td>
<td>✓</td>
<td>✓</td>
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<td>Tumbler screening machines TSM / tsi</td>
<td>Vibration screening machines VTS</td>
<td>Vibration screening machines Vibrall</td>
<td></td>
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<td>----------------------------------</td>
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</tr>
<tr>
<td>- fractionating of fine and ultra-fine bulk solids with high screening efficiency</td>
<td>- for uncomplicated fractionating</td>
<td>- protective and control screening of dry bulk solids</td>
<td></td>
</tr>
<tr>
<td>- for sensitive and valuable products</td>
<td>- protective screening</td>
<td>- design option with extremely low overall height</td>
<td></td>
</tr>
<tr>
<td>- protective screening</td>
<td>- dedusting</td>
<td>- various machine sizes</td>
<td></td>
</tr>
<tr>
<td>- dedusting</td>
<td>- dewatering</td>
<td>- various machine sizes</td>
<td></td>
</tr>
<tr>
<td>- smooth operating principle</td>
<td>- various machine sizes</td>
<td></td>
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</tbody>
</table>

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