IN-LINE INTEGRATION

The Quadro® FlexSift easily integrates into your processing suite with minimal effort. Typical installation examples:

- Quadro Vac® 830
- Quadro® FlexSift S20
- Bag Dump Station
- V-Blender

For over 30 years, Quadro has made an unparalleled commitment to delivering the highest production efficiencies, product quality and consistency to market leaders in the Pharmaceutical, Food, Fine Chemical, Personal Care and Cosmetics industries worldwide.

With the engineering experience gained from developing reliable application-specific solutions for major processors in more than 80 countries, our knowledge of size reduction and dispersion is unmatched. In fact, meeting the evolving needs of our customers drives the development of some of the industry’s most advanced processing technologies and systems – such as the Quadro® Co-mil® Quadro® FlexSift, Quadro® Fine Grind, Quadro® Finesizer, a-line mixers, dispensers and emulsifiers, Quadro® ShearFX®, Quadro® HV-Emulsifier and Quadro® Vac® vacuum transfer systems.

Since 1976, Quadro has led the industry in research & development. Through the Quadro® R&D Test Center we work directly with our customers to run real-world tests of their processes on the latest Quadro equipment. The result has been technical breakthroughs that have changed the way many of our customers manufacture, and led to new global processing industry standards.

As the world’s leading supplier of size reduction technology - with a vast global network of agents, distributors, OEMs and partners – Quadro provides a level of service and technical support that is unequaled in the industry. Our passion for technology is exceeded only by our dedication to meeting the needs of our customers.
The Quadro® FlexSift is compact and the low profile design fits below most bulk bag unloader and mixer discharge. Sifting efficiency is effectively improved by approximately 80%.

**Increased Safety**

By pre-screening material before it enters downstream equipment, the Quadro® FlexSift reduces risk of contamination of final processed product, prevents damage to equipment and injury to personnel.

**De-agglomeration Simplified**

The Quadro® FlexSift is also a very efficient means of de-agglomerating powders. Agglomeration is typically caused by particles or powders adhering to one another as a result of exposure to environmental conditions such as static, heat, cold or moisture during shipping or storage. The rotating action of the FlexSift combined with the custom designed spoiler arm gently de-agglomerates without reducing the size of the particles. The spoiler arm also aids in the sifting of very fine particles, typically in the 50 mesh (300 micron) and below range, which traditional sifting technologies have difficulty in passing through their screen openings.

**Wide variety of options available**

- variable height lift stand
- hand-feed hopper
- wide range of screen sizes available to meet your specifications
- customizable to fit any process stream
- range of spindle lengths available
- variable height lift stand
- easy-to-use controls
- hand-feed hopper
- wide range of screen sizes available to meet your specifications
- customizable to fit any process stream
- range of spindle lengths available
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**Principle of Operation**

As compared to traditional vibratory sifters, the Quadra® FlexSift does not employ vibration to sift the material entering the action zone.

A. The infeed product falls into the sifting chamber.

B. Centrifugal acceleration ensures a continuous flow of material through the screen openings while simultaneously retaining impurities.

C. Finished product is discharged 360º around the screen to enhance product flow.

D. Impurities and other foreign materials collected in the screening chamber can be easily removed or suctioned off by an optional vacuum adapter.

**Features**

- Compact, low-profile design: fits below most bulk bag unloaders and mixer discharges.
- Positive, 360º discharge: effectively segregates and retains impurities and other foreign materials cutting sifting times up to 80%.
- User-friendly design: easy-to-use controls, can be control or bulk-fed.
- Easy-breaks/maintain: minimal number of parts, single bolt locking mechanism secures the screen assembly onto the gearbox for fast changeover and maintenance.
- Quick screen changes with no special tools required.
- Wide variety of options available.
- Variable height lift stand.
- Hand-feed hopper.
- Wide range of screen sizes available to meet your specifications.
- Customizable to fit any process stream.
- Range of spindle lengths available.
- Variable height lift stand.
- Easy-to-use controls.
- Hand-feed hopper.
- Wide range of screen sizes available to meet your specifications.
- Customizable to fit any process stream.
- Range of spindle lengths available.
- Easy-to-use controls.

**Technical Specifications**

<table>
<thead>
<tr>
<th>Quadro® FlexSift</th>
<th>Model S5</th>
<th>Model S10</th>
<th>Model S20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power - HP (kW)</td>
<td>0.37 (0.27)</td>
<td>0.74 (0.55)</td>
<td>2.38 (1.75)</td>
</tr>
<tr>
<td>RPM</td>
<td>700 - 1400</td>
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</tr>
<tr>
<td>Screen Lift</td>
<td>2 x 0.41 (51 mm)</td>
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</tr>
<tr>
<td>Approximate Diameter (inch)</td>
<td>0.094 (2.4 mm)</td>
<td>0.125 (3.2 mm)</td>
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</tr>
<tr>
<td>Approximate Screen Capacity (lbs/hr)</td>
<td>500 kg/hr (1,100 lbs/hr)*</td>
<td>1,000 kg/hr (2,200 lbs/hr)*</td>
<td>2,600 kg/hr (5,700 lbs/hr)*</td>
</tr>
<tr>
<td>Dimensions (inch)</td>
<td>46.0</td>
<td>113.4</td>
<td>263.0</td>
</tr>
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</table>

*Based on QF0130 RPM, 100% screen, using optical assays.

**S20 Typical Capacities**

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<tr>
<th>Product</th>
<th>Screen Hole</th>
<th>Capacity (lbs/hr)</th>
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<tr>
<td>Sugar</td>
<td>0.062” (1.6)</td>
<td>3000</td>
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<tr>
<td>Flour</td>
<td>0.062” (1.6)</td>
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<tr>
<td>Lactose</td>
<td>0.062” (1.6)</td>
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<td>0.062” (1.6)</td>
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<td>Coffee Flavor</td>
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*Typical capacities of the S5 are 1/3 that of the S20.

**FlexSift De-agglomeration Capabilities**

Quadro® FlexSift with optional spoiler arm

- Effective segregates and retains impurities and other foreign materials.
- Cutting sifting times up to 80%.
- Customizable to fit any process stream.
- Range of spindle lengths available.
- Easy-to-use controls.
- Hand-feed hopper.
- Wide range of screen sizes available to meet your specifications.
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