Russell Finex
Improving your product quality and your reputation

Russell Proven Technology made even more effective through working closely with our customers

Worldwide Leaders in Fine Mesh Separation
Russell Finex
Leaders in fine mesh separation

Russell Finex assures the quality of your products
Safeguards your reputation
Helps you win more business

Russell Finex assures and enhances the reputation of companies in almost every process industry throughout the world. We achieve this by manufacturing and supplying sieves, separators, filters and vibronic mesh deblinding systems to improve your product quality and ensure your powders and liquids are free from contamination.

Our screening and filtration equipment will also improve your productivity and safeguard the health of your operators and environment.

If your business is in adhesives, ceramics, chemicals, colors, enamels, explosives, food, inks, latex, metal powders, paint, paper coatings, pharmaceuticals, plastisols, powder coating, waste oils, or any other powders or liquids .... then contact Russell Finex to improve the quality of your products and increase your business.

Customer trust... a Russell must

Russell Finex are committed to working with customers to solve problems and often supply customised solutions in order to do this. We also provide machines for evaluation either at your site or one of our purpose built Test and Research Units. This ensures peace of mind before you purchase.

With offices in the UK, Belgium, USA and India and a network of dedicated agents covering the whole world, we offer first class support wherever you are. Our excellent aftermarket network ensures that all your service and spare part requirements are fulfilled and your production lines are always running.

Russell Finex have 80 years of experience in over 140 countries. Contact us today to find out how we can improve your business.
**Russell Compact Sieve® Range**
Safety screening of powders & liquid slurries

- Improves your product purity by eliminating contamination
- Increases your production by utilizing an in-line design
- Reduces your downtime with easy strip down and clean without the need for tools
- Improves your operator safety by eliminating harmful dust & fumes

The range of Compact Sieves is ideal for the high capacity safety screening of your powders and liquid slurries, especially where space is restricted. All oversized contamination is removed from your product, giving total peace of mind. Operation and cleaning are quick and easy, making these machines perfect for all processing industries.

**Options:**
- 3 in 1 Sieving Station for easy bag emptying and check screening of raw materials
- Airswept Sieve for use in vacuum conveying lines
- Magnetic Separator - for removal of sub-mesh size ferrous contamination
- Vibrasonic Mesh Deblinding System or screen cleaning discs

**Models:**
- Compact 250, 400, 600, 900, 1200 & 1500

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**Vibrasonic® Range**
Enables the screening of difficult powders

- Increases your production rates by eliminating mesh blockage and reducing downtime for cleaning
- Improves your product quality by allowing screening on finer meshes
- Reduces your costs by lengthening the mesh life

The patented Vibrasonic® Deblinding System improves product quality further by allowing accurate separation down to 20µm. The system applies an ultrasonic frequency directly to the separator mesh, effectively making the stainless steel wires friction free. Without surface tension there is no mesh blinding, giving increased capacities and consistent product quality. This system has been designed with the flexibility to be retrofitted into any new or existing vibrating separator/screener.

**Options:**
- Explosion proof approval to CENELEC, FM and ATEX
- Pharmaceutical version

**Models:**
- RF40, Vibrasonic® 2000, Vibrasonic Spiroscreen™

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**Typical Applications**

<table>
<thead>
<tr>
<th>Material</th>
<th>Aperture size</th>
<th>Capacity without Vibrasonics</th>
<th>Capacity with Vibrasonics</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>µm</td>
<td>kg/hr</td>
<td>lbs/hr</td>
</tr>
<tr>
<td>Salt</td>
<td>2000</td>
<td>70000</td>
<td>15400</td>
</tr>
<tr>
<td>Leaded glaze</td>
<td>112</td>
<td>8000</td>
<td>18000</td>
</tr>
<tr>
<td>Flour</td>
<td>850</td>
<td>18000</td>
<td>40000</td>
</tr>
<tr>
<td>Iron powder</td>
<td>315</td>
<td>60000</td>
<td>132000</td>
</tr>
<tr>
<td>Pharmaceutical powder</td>
<td>630</td>
<td>1000</td>
<td>2200</td>
</tr>
</tbody>
</table>

**Typical Applications**

<table>
<thead>
<tr>
<th>Material</th>
<th>Aperture size</th>
<th>Capacity without Vibrasonics</th>
<th>Capacity with Vibrasonics</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>µm</td>
<td>kg/hr</td>
<td>lbs/hr</td>
</tr>
<tr>
<td>Enamel frit</td>
<td>100</td>
<td>Blocks instantly</td>
<td>400 900</td>
</tr>
<tr>
<td>Solder</td>
<td>38</td>
<td>5</td>
<td>11 350 800</td>
</tr>
<tr>
<td>Aluminium oxide</td>
<td>40</td>
<td>30</td>
<td>65 900 2000</td>
</tr>
<tr>
<td>Magnesium stearate</td>
<td>315</td>
<td>Blocks instantly</td>
<td>250 550</td>
</tr>
<tr>
<td>Toner powder</td>
<td>140</td>
<td>270</td>
<td>600 1300 2900</td>
</tr>
</tbody>
</table>
The new Finex Separator™ is a major advance in sieving and separation technology. Large improvements in capacity, accuracy, noise levels and upgradeability are achieved over spring suspension separators.

These high performance separators offer a cost effective solution to virtually any requirement, including sizing, scalping, safety screening, dewatering, grading or product recovery.

Options:
- Up to 4 mesh screens to obtain 5 fractions
- Vibrasonic® Mesh Deblinding System or screen cleaning discs

Models:
- Finex Separator 30", 40", 48", 60"

### Typical Applications

<table>
<thead>
<tr>
<th>Material</th>
<th>Aperture size</th>
<th>Capacity</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iron powders</td>
<td>200 µm, 88</td>
<td>4000 kg/hr, 8800 lbs/hr</td>
<td>48&quot;</td>
</tr>
<tr>
<td>Solder powders</td>
<td>42 µm, 325</td>
<td>1200 kg/hr, 2650 lbs/hr</td>
<td>48&quot;</td>
</tr>
<tr>
<td>Toner powder</td>
<td>42 µm, 325</td>
<td>100 kg/hr, 220 lbs/hr</td>
<td>30&quot;</td>
</tr>
<tr>
<td>Lactose</td>
<td>200 µm, 88</td>
<td>2500 kg/hr, 5500 lbs/hr</td>
<td>60&quot;</td>
</tr>
<tr>
<td>Powder paint</td>
<td>140 µm, 120</td>
<td>600 kg/hr, 1300 lbs/hr</td>
<td>40&quot;</td>
</tr>
</tbody>
</table>

### Finex® Range

**Safety screening & grading of powders & liquids**

- Purifies your products by eliminating contamination
- Increases your productivity with high capacities
- Reduces your downtime with easy strip down and clean without the need for tools

These machines are capable of simple safety screening as well as accurate grading of your powders or granules. They can be used in continuous manufacturing processes as well as off-line production and bagging stations. High speed versions are available for screening difficult powders and high viscosity liquids. Quick release hand operated clamps enable fast screen changes and easy clean down.

Options:
- Magnetic separator - for removal of sub-mesh size ferrous contamination
- Vibrasonic® Mesh Deblinding System or screen cleaning discs
- Direct filling from machine using paint tap

Models:
- Finex 22, 36 & 48

### Typical Applications

<table>
<thead>
<tr>
<th>Material</th>
<th>Aperture size</th>
<th>Capacity</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>PVA</td>
<td>45 µm, 400</td>
<td>8600 ltrs/hr, 2300 US gal/hr</td>
<td>F22</td>
</tr>
<tr>
<td>Liquid chocolate</td>
<td>400 µm, 40</td>
<td>8000 ltrs/hr, 2100 US gal/hr</td>
<td>F36</td>
</tr>
<tr>
<td>Plastisol</td>
<td>250 µm, 74</td>
<td>2000 ltrs/hr, 520 US gal/hr</td>
<td>F22</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Material (powder)</th>
<th>Aperture size</th>
<th>Capacity</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paracetamol</td>
<td>900 µm, 20</td>
<td>1000 kg/hr, 2200 lbs/hr</td>
<td>F22</td>
</tr>
<tr>
<td>Powder coating</td>
<td>125 µm, 125</td>
<td>800 kg/hr, 1750 lbs/hr</td>
<td>F48</td>
</tr>
</tbody>
</table>
### Russell Eco Filter® Range

**Filtration of liquids & high viscosity pastes**

- Improves your product quality by eliminating contamination
- Increases your productivity with easy clean and tool-free maintenance
- Safeguards your operator health and the environment

The Russell Eco Filter® Range safeguards the quality of your liquids by eliminating oversized contamination. The totally enclosed system ensures that no harmful fumes or liquids affect your operators or environment and no contamination enters your product. The filter achieves consistently high flow rates with the unique SpiroKlene™ System which continuously cleans a reusable filter element. Strip down and cleaning between batches is quick and easy without the need for tools.

**Options:**
- Filter elements
  - Wedge Wire - high capacity slotted screens
  - Microscreens - defined holes for accurate filtration
- Heating jacket to maintain product temperature
- High temperature versions for filtration of products up to 250°C (480°F)
- Filter Management System - For full control and monitoring of the filtration process
- Mobile units, with trolley and pump

**Models:**
- 200, 400, 500, 600, 800 & 900 Series

### Typical Applications

<table>
<thead>
<tr>
<th>Material</th>
<th>Aperture size (µm)</th>
<th>Capacity (kg/hr)</th>
<th>Capacity (lbs/hr)</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid chocolate</td>
<td>400</td>
<td>10000</td>
<td>22000</td>
<td>EF803J</td>
</tr>
<tr>
<td>Emulsion paint</td>
<td>100</td>
<td>8000</td>
<td>17700</td>
<td>EF502</td>
</tr>
<tr>
<td>High temp. phenolic resin</td>
<td>400</td>
<td>16500</td>
<td>36500</td>
<td>EF803DJ</td>
</tr>
<tr>
<td>Plastisol based coating</td>
<td>150</td>
<td>6000</td>
<td>13200</td>
<td>EF603</td>
</tr>
<tr>
<td>Offset ink</td>
<td>50</td>
<td>3000</td>
<td>6600</td>
<td>EF803D</td>
</tr>
</tbody>
</table>

### Rotary Range

**Powder safety screening & liquid solid separation**

- Improves your product quality by eliminating contamination
- Increases your productivity with high capacities
- Reduces your downtime with easy clean and tool-free disassembly

These enclosed, high capacity in-line separators use a rotating impeller to create a centrifugal action necessary for the efficient passage and separation of wet or dry products through a cylindrical mesh. The flexing action of the mesh gives it a self-cleaning effect to maximize capacity.

**Options:**
- Fixed or variable speed
- Spray cleaning systems (liquid applications)
- Variable incline angle to control dryness of solids discharge for liquid applications

**Models:**
- Turbo, Liquid Solid Separator & Fines Saver

### Typical Applications

#### Material (liquids)

<table>
<thead>
<tr>
<th>Material</th>
<th>Aperture size (µm)</th>
<th>Capacity (lts/hr)</th>
<th>Capacity (US gal/hr)</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curds and whey</td>
<td>40</td>
<td>42000</td>
<td>11100</td>
<td>Fines Saver</td>
</tr>
<tr>
<td>Wash water</td>
<td>100</td>
<td>10000</td>
<td>26000</td>
<td>LSS</td>
</tr>
<tr>
<td>Wool scour</td>
<td>125</td>
<td>20000</td>
<td>5300</td>
<td>LSS</td>
</tr>
</tbody>
</table>

#### Material (powder)

<table>
<thead>
<tr>
<th>Material</th>
<th>Aperture size (µm)</th>
<th>Capacity (kg/hr)</th>
<th>Capacity (lbs/hr)</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maize starch</td>
<td>950</td>
<td>7000</td>
<td>15400</td>
<td>Turbo</td>
</tr>
<tr>
<td>Milk powder</td>
<td>1000</td>
<td>3000</td>
<td>6600</td>
<td>Turbo</td>
</tr>
</tbody>
</table>
The following are a few of our satisfied customers:

- 3M
- Abbott Laboratories
- Adchemo
- ADM
- Akzo Nobel
- Allied Bakeries
- Allied Mills
- Amelec
- Amoron International
- Amylum
- Apotex
- APV
- Armstrong World Industries
- Arnotts
- Astra Zeneca
- Aventis
- Avon Cosmetics
- B.A.S.F.
- B.P. Chemicals
- Bayer
- Boart
- Boehringer Ingelheim
- Boots PLC
- Bristol Myers Squibb
- British Nuclear Fuels
- Cadbury Schweppes
- Cargill
- Chisso
- Chloride
- Ciba Speciality Chemicals
- Clariant
- Coates
- Colgate-Palmolive
- Courtaulds
- Cray Valley
- Dai Nippon
- Daian Paint & Ink Co.
- Daimler Chrysler
- Danone
- Degussa
- Dow Chemical
- Dupont
- E. Merck
- Eastman Kodak
- Eli Lilly
- Engelhard
- Estee Lauder
- Faulding
- Ferrero
- Ferro
- Fluor
- Ford Motor
- Foster Wheeler
- Fuji Kogyo
- General Electric
- General Mills
- General Motors
- Glaxia
- Glaxo Smithkline
- H.J. Heinz
- Harlow Chemicals
- Hempel
- Henkel
- Herberts
- Hoechst
- ICI
- Imerys
- Imperial Tobacco
- Inco
- International Paper
- Johnson Matthey
- Jotun
- Kawasaki Heavy Metals
- Kelloggs
- Kemira
- Kennametal
- Kerr Foods
- Kodak
- Konica Supplies
- Kraft Foods
- Kvaerner
- L’Oreal
- Leaf
- Lever Faberge
- Marley
- Mars
- Master Foods
- Max Factor
- McCains Foods
- McVities
- Meiji
- Merck Sharp & Dohme
- Michelin
- Mitsubishi Chemicals
- Mitsui Mining
- Monsanto
- Morinaga
- Nabisco
- Nashua Corporation
- National Starch
- Nestlé
- Nordson Corporation
- Novartis
- Orkla
- Pfizer
- Philips
- Pilkington
- Porcelanosa
- PPG Industries
- Proctor & Gamble
- Quaker Oats
- Quest International
- Raisio Chemicals
- Reckitt & Colman
- Reichold
- RHM
- Rhone Poulenc
- Roche
- Rohm & Haas
- Royal Doulton
- Saint Gobain
- Sandvik
- Sara Lee
- Schering-Plough
- Shell
- Sherwin Williams
- Showa Denko
- Sigma Coatings
- Solvay
- Sun Chemicals
- Synthomer
- Tikkurila
- Toshiba Chemicals
- Total
- Toyo Aluminium
- Toyo Ink
- Treibacher
- Unicef
- Unilever
- Union Carbide
- Valspar
- Van Den Bergh Foods Ltd
- W.R. Grace
- Warner Lambert
- Wattyl Paints
- Whitbread
- Whitford Plastics
- Wrigleys
- Wyeth
- Xerox
- Yamanaka Chemical