

# Russell Finex

## Leaders in fine mesh separation

### Russell Finex.....

Assures the quality of your products

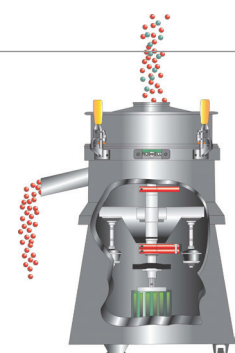
Safeguards your reputation

Helps you win more business

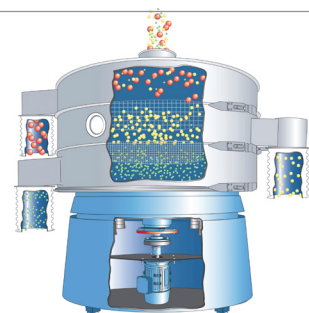
Russell Finex assures and enhances the reputation of companies in almost every process industry throughout the world. We achieve this by manufacturing and supplying sieves, separators, filters and vibrasonic mesh debinding systems to improve your product quality and ensure your powders and liquids are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

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

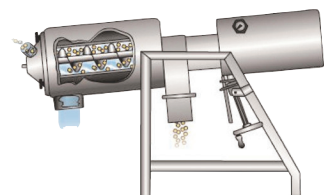
If your business is in **adhesives, ceramics, chemicals, colors, enamels, explosives, food, inks, latex, metal powders, paint, paper coatings, pharmaceuticals, plastisols, powder coating, waste oils, or any other powders or liquids** ....then contact Russell Finex to improve the quality of your products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



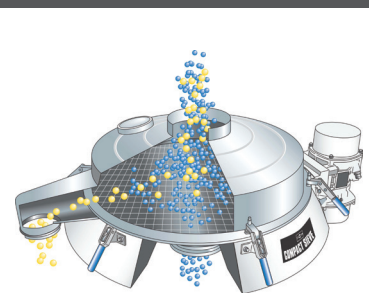
Finex® Range



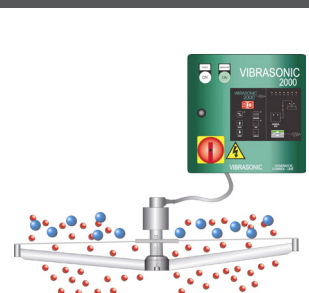
Finex Separator™ Range



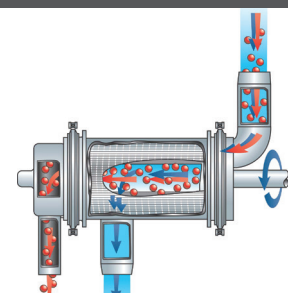
Rotary Range



Russell Compact Sieve® Range



Vibrasonic® Range



Russell Eco Filter® Range

## 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 75 years of experience in over 140 countries. Contact us today to find out how we can improve your business.

# Russell Finex

## The following are a few of our satisfied customers

3M  
Abbot Laboratories  
Adchemo  
ADM  
Akzo Nobel  
Allied Bakeries  
Allied Mills  
Amec  
Ameron 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  
Daihan Paint & Ink Co.  
Daimler Chrysler

Danone  
Degussa  
Dow Chemical  
Dupont  
E. Merck  
Eastman Kodak  
Eli Lilly  
Engelhard  
Estee Lauder  
Faulding  
Ferro  
Ferro  
Fluor  
Ford Motor  
Foster Wheeler  
Fuji Kogyo  
General Electric  
General Foods  
General Mills  
General Motors  
Glanbia  
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  
Kerry 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



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

**Worldwide Leaders in  
Fine Mesh Separation**





Thousands of machines...

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



Typical Applications					
Material	Aperture size		Capacity		Model
	µm	Approx mesh count	kg/hr	lbs/hr	
Salt	2000	10	70000	154000	C900
Leaded glaze	112	140	8000	18000	C1200
Flour	850	20	18000	40000	C900
Iron powder	315	50	60000	132000	C900
Pharmaceutical powder	630	32	1000	2200	C600

Hundreds of applications...

- Improves your product quality through accurate particle size separation
- Increases your productivity with higher capacities
- Improves your operator health and safety by lowering noise levels

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					
Material	Aperture size		Capacity		Model
	µm	Approx mesh count	kg/hr	lbs/hr	
Iron powders	200	88	4000	8800	48"
Solder powders	42	325	1200	2650	48"
Toner powder	42	325	100	220	30"
Lactose	200	88	2500	5500	60"
Powder paint	140	120	600	1300	40"



Finex Separator™ Range

Separation of powders & liquid slurries

Worldwide...

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					
Material	Aperture size		Capacity		Model
	µm		kg/hr	lbs/hr	
Liquid chocolate	400		10000	22000	EF803J
Emulsion paint	100		8000	77000	EF502
High temp. phenolic resins	400		16500	36500	EF803DJ
Plastisol based coating	150		6000	13200	EF603
Offset ink	50		3000	6600	EF803D

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™

Typical Applications						
Material	Aperture size		Capacity without Vibrasonics		Capacity with Vibrasonics	
	µm	Approx mesh count	kg/hr	lbs/hr	kg/hr	lbs/hr
Enamel frit	100	150	Blocks instantly	Blocks instantly	400	900
Solder	38	400	5	11	350	800
Aluminium oxide	40	400	30	65	900	2000
Magnesium stearate	315	50	Blocks instantly	Blocks instantly	250	550
Toner powder	140	120	270	600	1300	2900

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					
Material (liquids)	Aperture size		Capacity		Model
	µm	Approx mesh count	ltrs/hr	US gal/hr	
PVA	45	400	8600	2300	F22
Liquid chocolate	400	40	8000	2100	F36
Plastisol	250	74	2000	520	F22
Material (powder)	µm	Approx mesh count	kg/hr	lbs/hr	Model
Paracetamol	900	20	1000	2200	F22
Powder coating	125	125	800	1750	F48

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)	Aperture size		Capacity		Model
	µm	Approx mesh count	ltrs/hr	US gal/hr	
Curds and whey	40	400	42000	11100	Fines Saver
Wash water	100	150	100000	26000	LSS
Wool scour	125	125	20000	5300	LSS
Material (powder)	µm	Approx mesh count	kg/hr	lbs/hr	Model
Maize starch	950	20	7000	15400	Turbo
Milk powder	1000	18	3000	6600	Turbo

