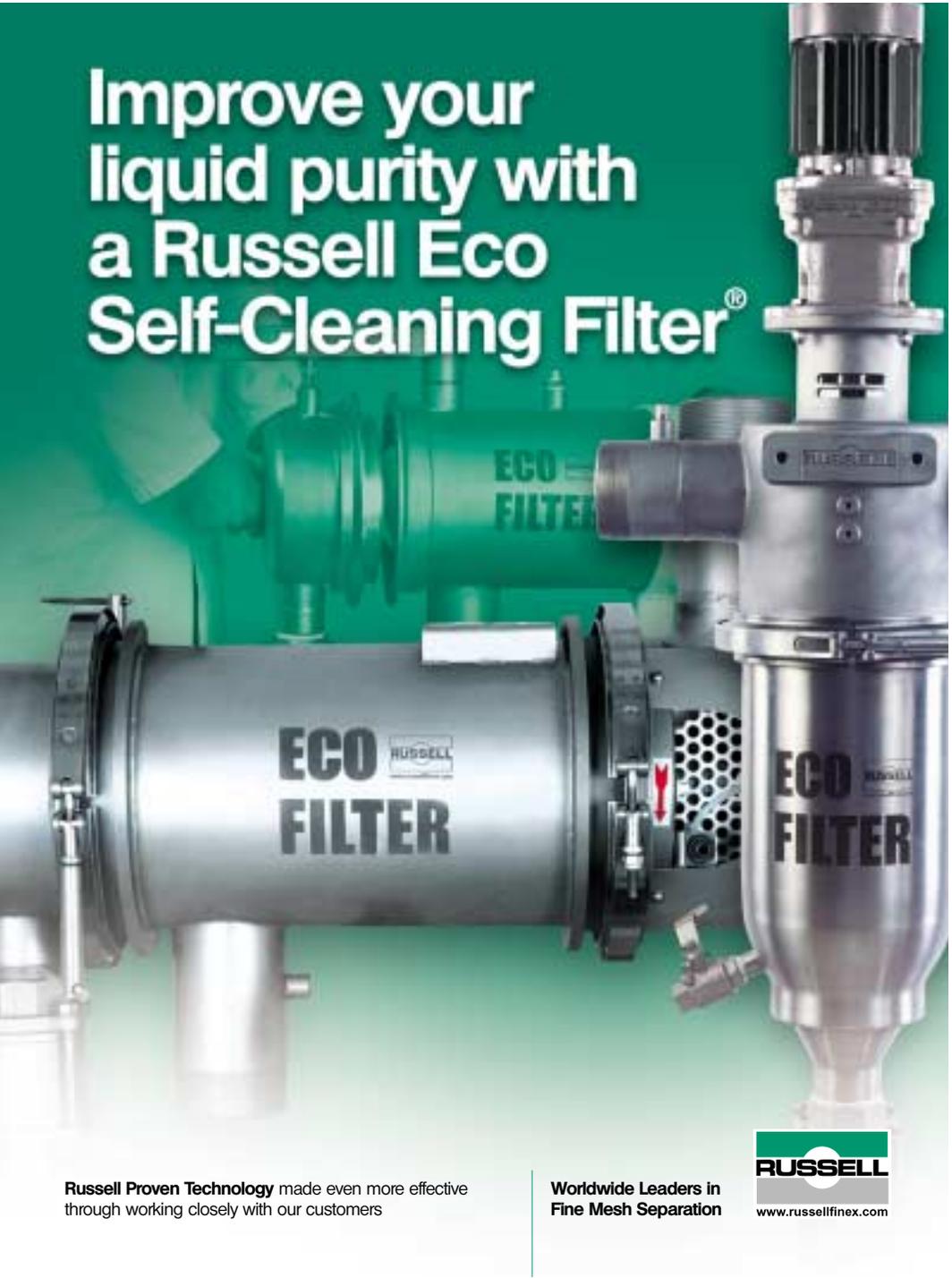


Improve your liquid purity with a Russell Eco Self-Cleaning Filter[®]



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

Worldwide Leaders in Fine Mesh Separation

RUSSELL
www.russellfinex.com

The Russell Eco Self-Cleaning Filter®

Ensure your reputation
and win more business

The **Russell Eco Self-Cleaning Filter®** is ideal for high capacity filtration of liquids. It improves the quality of your liquids and ensures your reputation, therefore winning you more business.



Safeguards your reputation

- The **Russell Eco Self-Cleaning Filter®** ensures the quality of your liquids by eliminating any oversized contamination.
- Total containment of your product prevents any airborne or other contamination from the local environment polluting your product.

Protects your operators & environment

- Totally enclosed filtration protects your operators from hazardous products, fumes and spillage. It also ensures that your production area stays clean.
- The re-usable filter element removes the need to handle and dispose of messy bags or cartridges.

Increases your productivity

- Higher capacities are achieved through the continuously cleaned filter element.
- Cleaning between batches is quick and easy without the need for tools. This means minimal disruption during product changeovers and significant savings in labor and downtime.

Reduces maintenance costs

- The re-usable filter element removes the need to replace and dispose of bags or cartridges. This reduces labor and running costs as well as eliminating landfill charges.



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Ensure your product purity

Improve your productivity

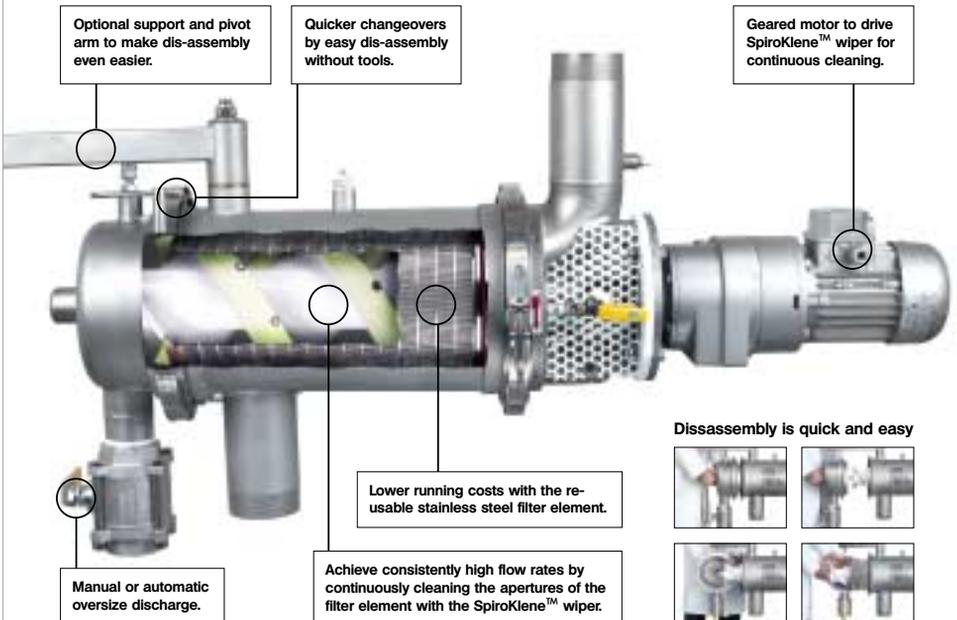
The **Russell Eco Self-Cleaning Filter**[®] accurately removes oversize impurities from all types of liquids and pastes. The unique SpiroKlene[™] system continuously cleans the surface of the filter element and ensures optimum filtration efficiency. This allows for high and consistent flows, which are ideal for filling operations and continuous production lines.

The Russell filter gives you higher production rates compared to other filtration methods, as there are no production stoppages to change filter bags or cartridges.

The range of filters is designed for ease of operation and maintenance. They are simple to dis-assemble and clean without tools, allowing for fast and efficient product line changeovers, therefore increasing productivity. The units fit neatly into existing production lines, providing considerable filtration capacity without requiring excessive space.



Russell Eco Self-Cleaning Filters[®] aid quality control procedures for filtering liquid chocolate at Walls Ice Cream.



Click here for www.russellfinexinc.com

Safeguard your reputation & win more business

Protect your operators and environment

The totally enclosed Russell filters eliminate the risk of any contamination entering your product and prevent environmental pollution from fumes or spillage.

The re-usable filter element eliminates the costs and environmental implications associated with bags and cartridges - e.g. mess in your production area, ongoing replacement & disposal costs. It also safeguards the health of your operators by reducing their exposure to the product.

We recognize the importance of controlling waste; the savings to be achieved by minimizing product loss during manufacture and the control of what is finally released into the sewage system.

Explosion proof and flameproof units are available including ATEX certification in Europe if required.



Russell Eco Self-Cleaning Filters® provide pre-filtration at a factory of H.P. Bulmer - Cider manufacturers

At Russell Finex we are committed to working closely with customers around the world, supplying solutions to your problems and keeping up to date with changes in legislation that affect your industry.

Over the last 70 years we have solved the filtration problems of almost every type of manufacturing company in the world and often provided customized solutions.

Improve your process further with the following standard options tailored to meet your needs



A range of 8 models with a choice of installation to suit your application needs

- **Jacketed unit**
Heating jacket maintains a high product temperature, e.g. in chocolate processing.
- **Mobile unit**
The self-contained trolley mounted filtration system is ideal for multiple filling lines or where quick product changes are required to minimize downtime.
- **High temperature unit**
Capable of handling liquids such as cooking oils and resins up to 250°C/480°F.

Some of the industries Russell has helped:

INKS

Offset
Cold set
Heat set
Gravure
Flexographic
Lithographic

FOOD

Dairy
Chocolate
Confectionery

Flavourings
Breweries/Distilleries
Beverages
Oils

COATINGS

Adhesives
Plastisol
Latex
Wood coatings
Gel coats
Resins

PAINT

Gloss
Emulsion
Automotive
Industrial
Primer

CERAMICS

Abrasives
Glaze
Clay Slip

EXTRACTION

China Clay
Minerals
Calcium Carbonate

OTHER LIQUIDS

Waste Oil
Water Treatment
Effluent
Starch
Tallow
Metal Slurries

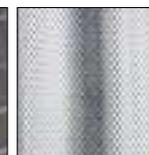
Paper Coatings
Pharmaceuticals
Plastic/Rubber
Cosmetics
Catalysts
Detergents
Chemicals
Agrochemicals

A choice of filter elements are available to meet the specific demands of your industry

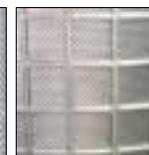
- **Wedge Wire microscreen**
Increases filtration capacity and offers longer screen life due to the robust design.
- **Defined hole microscreen**
Provides more accurate filtration than standard screens - the reliable choice when product quality must be beyond criticism.
- **Defined hole supported microscreen**
Suitable for continuous, high volume filtration where higher running pressures may be required.



Wedge Wire microscreen



Defined hole microscreen



Defined hole supported microscreen

Easy installation...whatever your process

1 In-line design

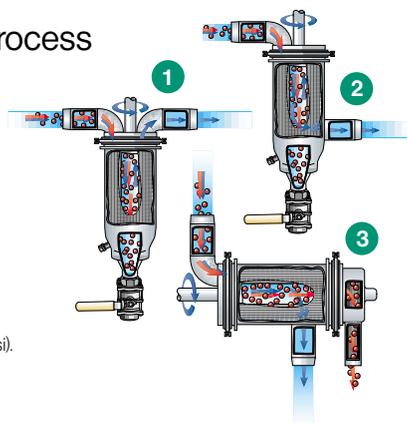
This unit is easy to fit into existing pipework without the need for a specialist pipe fitter.

2 On-line design

Operates on a unique flow-through principle, which eliminates any dead spots giving you high volume, continuous production.

3 Horizontal On-line design

Strip-down and cleaning time is reduced further. It is even easier to fit into production lines where headroom is limited.



The filters are designed to operate at pressures up to 15 bar (220 psi).

Remove operator involvement with the Russell Filter Management System™

The system continuously monitors the filtration process enabling the filter to be efficiently run without operator involvement which means reduced labor costs and increased productivity.

- Completely automates your liquid filtration process.
- Improves safety by eliminating operator contact with potentially hazardous products.



- Instantly save money - the system dramatically reduces good product loss.
- Reduce labor costs - no manual supervision is needed.
- Easily retrofits to all types of filter.

Russell Finex

Improving your product quality and your reputation



 **ATEX APPROVED**
Certified for use in zones
20, 21, 22, 0, 1 and 2

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

**Worldwide Leaders in
Fine Mesh Separation**



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 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		35000	77000	EF502
High temp. phenolic resins	400		16500	36500	EF803DJ
Plastisol based coating	150		6000	13200	EF603
Offset ink	50		3000	6600	EF803D

Rotary Range

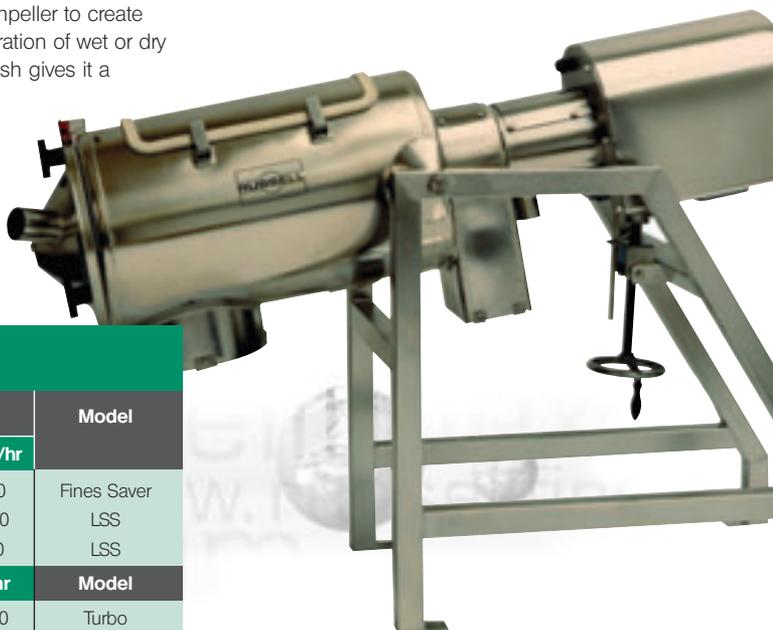
Powder safety screening & liquid solid separation

- 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

Compact® 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:**
- 3in1 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

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
 - Profibus D.P. interface
 - 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



- 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"

Finex Separator™ Range

Separation of powders & liquid slurries



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 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

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



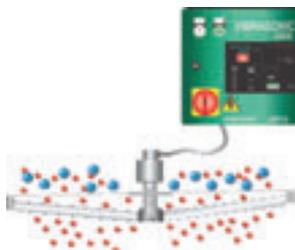
Finex Separator™ Range



Rotary Range



Compact® Range



Vibrasonic® Range



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, USA and Belgium 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 70 years of experience in over 100 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
Ferrero
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Mars
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Monsanto
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Sandvik
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Schering-Plough
Shell
Sherwin Williams
Showa Denko
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Total
Toyo Aluminium
Toyo Ink
Treibacher
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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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No more messy bag changes...



Are you fed up with the problems associated with bag filters?

High Cost

- Changing bags is labor intensive and time consuming.
- Stocking bags is expensive
- Disposing of bags is expensive
- Good product lost when changing bags

Poor Product Quality

- Bags have non uniform apertures

Health and Safety

- Your operators are exposed to hazardous materials
- Disposing bags is damaging to the environment

Process Interruptions

- Bags give uneven flow rates as they block up
- Frequent line stoppages - due to continuous bag changes



Please turn over to see for how much better it can be...

The Russell Self Cleaning Eco Filter[®]

The Russell Self Cleaning Eco Filter[®] gives you a continuously cleaned, reusable screen element with positive oversize removal.

Low Cost

- Automated process
- No disposable bags or cartridges
- No disposal costs

Total Product Quality

- Defined filter screen apertures remove all oversize contamination

Health and Safety

- Totally enclosed
- No product exposure to operator

No Process Interruptions

- Continuously cleaned filter element
- No bags to block up and remove
- Increased capacity

Call **Russell Finex** today to discover how the versatile Russell Self Cleaning Eco Filter can solve your processing problems and save you time and money.



Russell Finex

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UK & rest of the World

Tel: +44 (0) 20 8818 2000

Email: sales@russellfinex.com



www.russellfinex.com

Powder Coating Users

Get rid of contamination from your oversize powder with the new Russell Finex Powder Coating Recovery Screener

Save Product & Maintain Quality

- Reclaim over 98% of your good powder
- Screen down to 100 mesh
- Improve finish on final product
- Oversize removed with no product loss



Compact and Quiet

- Small size and fully mobile
- Operates at less than 65dBA
- Use off line, within a powder kitchen, or after a cyclone

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www.russellfinex.com

Why risk gun blockage when you can bring your recovered powder up to specification with this unique Screener?

Increase Efficiency

- Faster color change
- No tools required for strip down
- Strip down in less than 1 minute

Minimum Maintenance

- Standard electric motor
- Off the shelf spares service
- Stainless steel contact parts

Maximize Productivity

- Reduce blockage on Spray Guns
- Up to 20 guns on single unit
- Recycle product previously wasted

Contact us today to discover how the Screener can save you time and money!



Worldwide Leaders in Fine Mesh Separation