

# The Compact Sieve

High capacity check screening- wet or dry applications

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



## Improves your product purity

Eliminates any oversized contamination from your powders and liquids.

## Increases your production

Doubles your throughput with half the size - Much higher throughputs per unit mesh area compared to conventional machines.

## Reduces your down-time

Easy to strip down and clean without tools.

## Eliminates dust and fumes

Enclosed screening for total containment.

## Lowers noise levels

Solid rubber suspension gives quieter operation - typically as low as 70 dBA.

## Fits into smaller spaces

Fits easily into existing installations and areas of limited headroom.



## Typical Capacities

Material	Model	Mesh Size (microns)	Capacity
Tungsten Carbide	C600	100/v	100 kg/h
Toner Powder	C900	75/v	300 kg/h
Stainless Steel Powder	C900	42/v	100 kg/h
Salt	C900	2000	7,000 kg/h
Powder Paint	C900	100/v	750 kg/h
Pharmaceutical Powders	C600	630	1,000 kg/h
Leaded Glaze	C1200	112	8,000 kg/h
Food Ingredients	C600	900	1,000 kg/h
Flour	C1200	800/v	50,000 kg/h
Clay Slip	C900	63	5,500 l/h
Plastic Powder	C1500	2000	11,000 kg/h
China Clay	C1200	53	20,000 l/h



Compact 900 Sieves with Vibrasonic® deblinding system at Colmans - mustard powder producer. The screens are fed from blenders and pass the sieved material through to the packaging area.

## Full research and testing facilities



All our separation equipment is available for extended trials on your premises, while facilities for testing under controlled conditions are provided by state-of-the-art Test and Research Units. These units are located at our sites in the UK, Belgium and the USA. Among other things, we evaluate the effects of changing variables such as mesh size, motor speed, degree of vibration and rate of material flow. These can all influence the performance of separation equipment. The results of every test are added to a computerized database, which incorporates information gathered by the company since its earliest days. We offer customers confidentiality in regard to specific findings.

## Full after market support



We are committed to giving our customers a fast, responsive and reliable support service that helps to keep production lines running. This means full support from our technical representatives and the availability of a complete range of spares off-the-shelf. Russell standard parts represent excellent value for money and allow units to operate trouble-free at optimum levels of performance. For mesh assemblies, made to order or standard lines, we have our own production facilities, which ensures rapid delivery and extremely competitive pricing.

**Call us today to find out how the Russell Compact Sieve® will help solve your processing problems and transform productivity. All our experience is at your disposal.**



**Russell Finex Ltd., Feltham, England.**

Russell Finex Limited,  
Russell House, Browells Lane,  
Feltham, Middlesex TW13 7EW,  
England.  
Tel: +44 (0) 20 8818 2000  
Fax: +44 (0) 20 8818 2060  
Email: sales@russellfinex.com



**Russell Finex N.V., Mechelen, Belgium.**

Russell Finex N.V.,  
Zandvoortstraat 20  
Industriepark Noord C20  
B-2800 Mechelen, Belgium.  
Tel: +32 (0) 15 27 59 19  
Fax: +32 (0) 15 21 93 35  
Email: info@russellfinex.be



**Russell Finex Inc., Pineville, N.C. USA.**

Russell Finex Inc.,  
625 Eagleton Downs Drive,  
Pineville,  
North Carolina 28134, U.S.A.  
Tel: +1 704 588 9808  
Fax: +1 704 588 0738  
Email: sales@russellfinexinc.com



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# Double your throughput with half the size



**No clogging, No hold ups**

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

Worldwide Leaders in Fine Mesh Separation





# Compact Sieving

Simple and effective performance

The design of the **Russell Compact Sieve®** is based on simplicity, the material being screened passes through the machine in a straight line, ensuring no hold-ups or dead points. Any oversized material quickly travels across the screen mesh to give maximum separation and can be discharged through an oversize outlet if fitted. Cleaning and maintenance of the machine is extremely easy as all of the contact parts can be removed in a matter of seconds without the need for tools.

## Compact design

The Russell Compact Sieve® fits neatly into production lines, providing considerable screening capacity without requiring excessive headroom. Its innovative design means that the screener is less than half the height of a traditional sieving machine.



# Russell Compact Sieve®

Maximum capacity, Minimum headroom, Total control

## Meeting industry needs

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.

We will help you select the right machine with complete peace of mind, right from our pre-purchase testing facilities to our after market support.

Over the last 75 years we have solved the screening problems of almost every large manufacturing company in the world. We often provide custom solutions, re-designing or modifying the standard range of Compact Sieves at our own manufacturing facilities. Compact Sieves are available in a range of different diameters and with many different options to meet

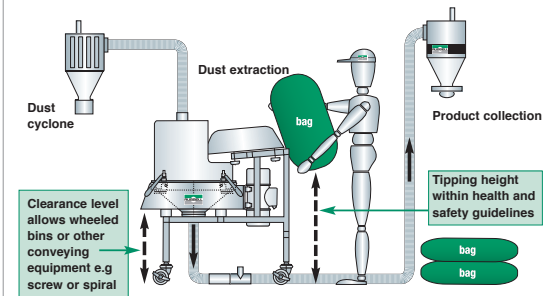
the specific demands of your particular industry including: **different materials of construction, different grades of finish, explosion-proof motors, debinding systems and many more.**



Compact Sieves are suitable for screening wet materials as shown here at Royal Crown Derby.

We also understand the importance of post purchase support and pride ourselves on the quality of our after market service. This ensures your Compact Sieve is always performing to the best of its ability.

## Compact Sieves can be fitted with a variety of options



### Russell Compact 3 in 1 Sieve

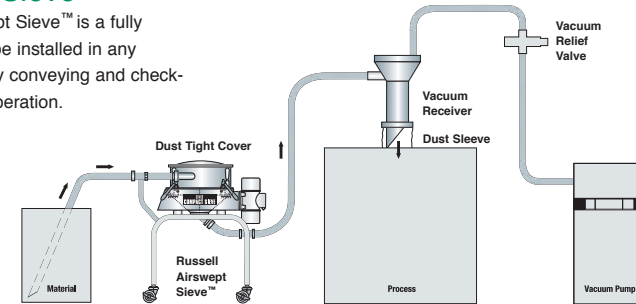
Designed for easy bag-emptying and check screening of raw materials, where operator protection is essential and product quality must be beyond criticism.

- Bag emptying station at operator friendly height with dust hood to remove airborne particles.
- Compact Sieve to remove oversize contamination.
- Magnetic trap to catch ferrous particles smaller than the mesh size.

### Russell Airswept Sieve™

The patented Russell Airswept Sieve™ is a fully enclosed system which can be installed in any vacuum line for pneumatically conveying and check-screening in one dust-tight operation.

- Sieving rates are vastly improved.
- Loading is automatic via a suction wand from either a hopper, bag or bulk storage location.
- Completely enclosed system gives improved containment of your product.



The Russell Compact Sieve® is available in a choice of different finishes to meet your individual needs.



Food Safe White Coating

Bead Blasted

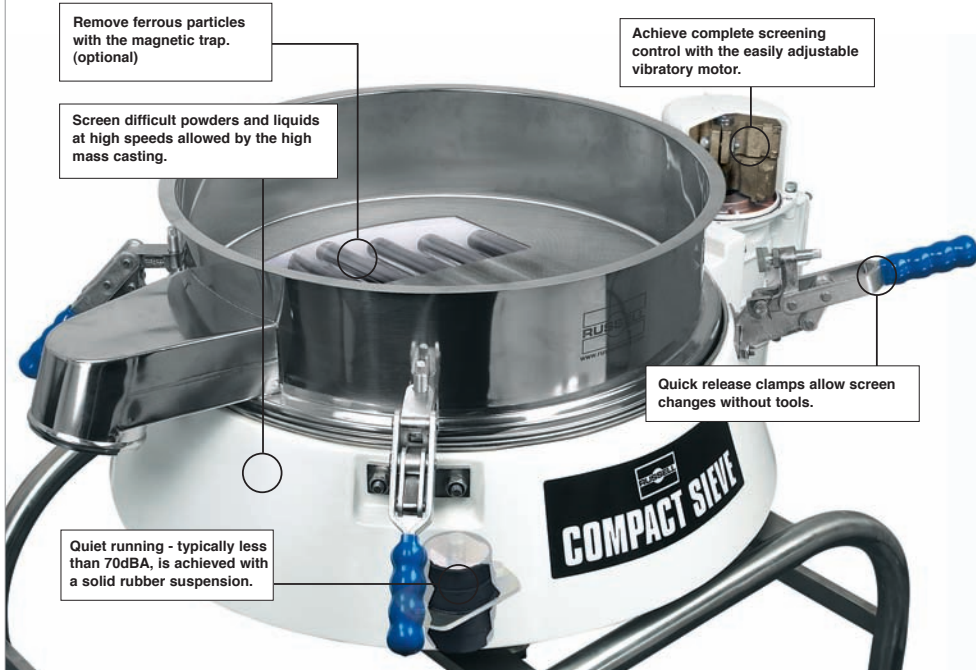
Brush Polished

Mirror Polished

## The Russell Vibrasonic® 2000 Mesh Deblinding System

The **Russell Vibrasonic® Deblinding System** can be combined with the **Russell Compact Sieve®** to eliminate mesh blinding and increase throughput. The Vibrasonic® system applies an ultrasonic frequency directly to the sieve mesh. This breaks down the surface tension, effectively making the wires friction-free. Without surface tension there is no mesh blinding, giving increased throughput and consistent product quality.

- Longer mesh life since there is no harsh abrasive mechanical action on the mesh to impair tension and cause wear.
- Reduces cleaning frequency as mesh remains cleaner and unblocked longer.
- No need for scrapers, brushes or rubber balls, therefore you eliminate the contamination caused when they wear out.
- Explosion-proof/flame-proof systems available, including ATEX approval for Europe.



Remove ferrous particles with the magnetic trap. (optional)

Achieve complete screening control with the easily adjustable vibratory motor.

Screen difficult powders and liquids at high speeds allowed by the high mass casting.

Quick release clamps allow screen changes without tools.

Quiet running - typically less than 70dBA, is achieved with a solid rubber suspension.

### Russell Self Loading Sieve

The Self Loading Compact Sieve is a complete stand-alone system which loads, screens and discharges your material in one easy operation.

- Material is drawn into the screener via vacuum.
- The air is separated from the material via a filter integrally mounted in the lid of the Self Loading Compact Sieve. The vacuum is created by an electric pump (exhauster).
- The timer controls switch off the vacuum, the material is sieved and drops into a container / mixer bowl.
- The cycle then begins again.

