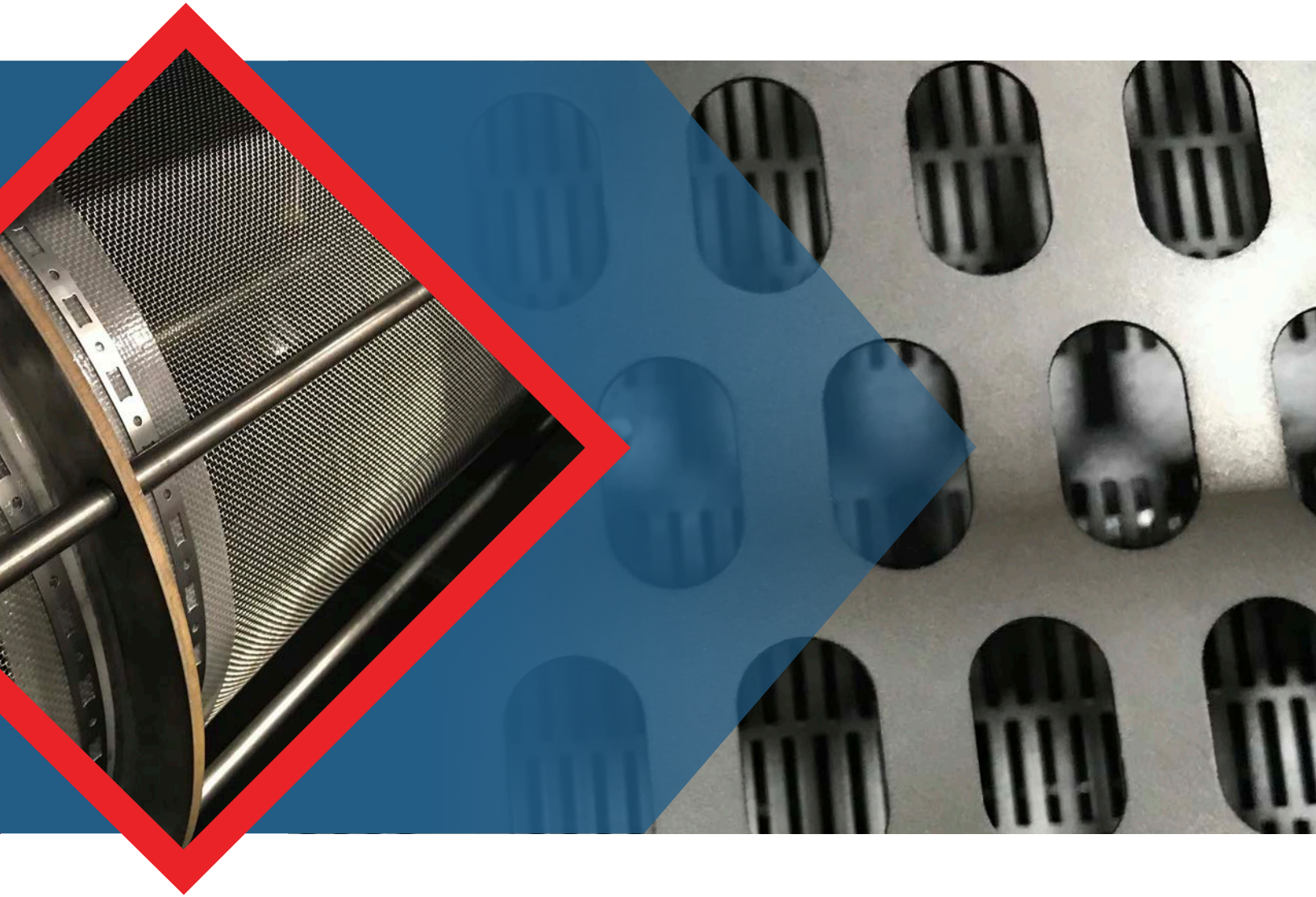


Screeners, Sifters & Separating Equipment

Screeners use a vibratory or rotary design, including centrifugal power sifters and screeners, separating systems, Snappy Air Finishers, Snappy Shakers, and other custom screening and separating equipment. S. Howes builds robust screening equipment for processing powders and bulk solids materials.

Lab testing may be required to obtain test data such as analysis of material characteristics, product flowability, particle degradation, and other measurements of material behavior in specific process applications.



Complete Range of Process Equipment

- Thermal Processors
- Mixers & Blenders
- Screeners & Sifters
- Screw Conveyors
- Size Reduction
- Filtration Systems



Power Sifter

High capacity Centrifugal Power Sifters separate clumps from desired material by means of rotating paddles which push material through a sieve screen. Numerous screen cloths, mesh and wedge wire screens (for more abrasive materials) are available to achieve capacities as high as 100,000 lbs. per hour. Sifter throughput capacity is dependent on product density, characteristics, and screen size.

Our Power Sifters feature a heavy-duty construction build and low horsepower requirements for reliable and efficient processing of a variety of bulk solids products. Four models are available in mild steel or stainless steel for sanitary applications along with custom power sifter options.



Features & Benefits

- Versatile design processes virtually any dry product or slurry
- Low RPM and horsepower requirements with minimal vibration and few moving parts provides efficient and reliable sifting
- Quick screen change design for product changeovers and cleaning
- Easy to clean and maintain

Options & Accessories

Screens

- Screen Sizes From 5000 Microns (4.3 Mesh) to 150 Microns (100 Mesh)
- Stainless Steel or Nylon Mesh
- Optional Durable Wedgewire For Abrasive Materials

Access

- Access Ports
- Optional Viewing Windows
- Sanitary Clamp Fittings

Drives

- Direct or Belt Drive
- TEFC Motor
- Explosion Proof Motor
- Hostile Environment Motor



Sifter Screen



Quick Access Clamps



Belt Driven



Screen Access

Sample Applications

Our air finisher products perform reliable and efficient cleaning and screening of materials in a wide variety of industries.

- | | | | | |
|----------|-----------------|----------------|----------------------|---------------|
| • Flour | • Milk Powder | • Carbon Black | • Metal Oxides | • De-Watering |
| • Sugar | • Salt | • Cement | • Resin powders | |
| • Coffee | • Pet Food Meal | • Plastics | • Diatomaceous Earth | |

Custom Separating & Screening

We design and build custom Separating and Screening equipment to fit any need. Regardless of the industry, S. Howes has been crafting custom process equipment to solve the most demanding separating and screening issues. Our expert engineers and process specialists are adept in finding the best solution for your needs.

Snappy Shaker

Snappy Shakers are used for high-intensity screening, cleaning and/or sifting. Our Shaker screening machine is simple to install and easy to maintain. It features a robust design that provides long-lasting durability for many years. They provide superior screening capabilities for processing food ingredients, animal feed, pellets, minerals, and more.

Ten models are available with single, double, or triple deck configurations. Screening capacities range up to 50 tons per hour. The S. Howes Snappy Shakers are available in open, covered, or fully enclosed models for use outdoors or in dust-free environments. Triple deck models are available for additional separations for maximum efficiency.

Features & Benefits

- High-quality, heavy-duty construction provides years of reliable processing
- Low maintenance and low horsepower for economical operation
- Optional ball screens provides constant ball agitation that aids particle stratification and prevents screen blinding for more efficient cleaning, even with materials that clog easily
- Barbeau oscillating, eccentric-less drive provides vigorous, smooth screen action that maintains production efficiency
- Standard carbon steel construction with stainless steel options for corrosive or washdown applications



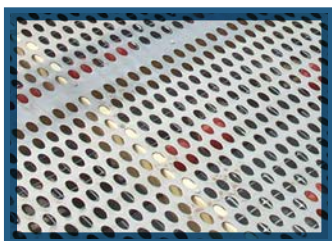
Options & Accessories

- Ball screens
- Triple deck models
- Removable dust covers
- Fully-enclosed (SL) model in all sizes for even more efficient dust confinement and outdoor use
- Custom perforations or wire mesh screens
- Custom discharges

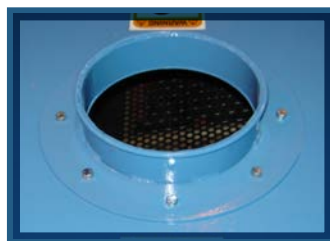
Sample Applications

S. Howes authentic ball screens provide constant agitation to promote particle stratification for more efficient cleaning, even when used with materials that tend to clog easily.

- | | | |
|---------------|--------------|--------------|
| • Cereal | • Corn | • Rice Hulls |
| • Spices | • Wood Chips | • Pellets |
| • Animal Feed | • Oats | • Plastics |
| • Nuts | • Feed | • Minerals |
| • Bark | • Grain | |
| • Beans | • Seed | |



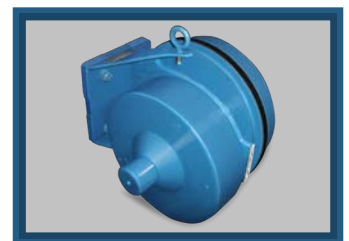
Screening Deck



Snappy Shaker
Custom Inlet



Snappy Shaker
Discharge



Barbeau Oscillating
Drive

Snappy Air Finisher

Snappy Air finishers are used for high-intensity screening, cleaning and/or sifting – and are enhanced by aspiration. Their ruggedness means they are built to last for many years. Our air finishers are simple to install and easy to maintain. Simplified installation and maintenance processes save valuable time so you can focus on your processing needs. And their low maintenance design delivers trouble-free cleaning and screening.

Nine models are available with single or double deck configurations. Screening capacities range up to 25 tons per hour and 3,200 CFM.

Features & Benefits

- High quality, heavy-duty construction provides years of reliability
- Barbeau oscillating, eccentricless drive controls vigorous yet smooth screen action to maintain production efficiency
- Superior cleaning at an economical price
- Low horsepower and maintenance for reduced power consumption and operational costs
- Efficient screening capabilities enhanced by aspiration of lightweight materials and dust
- Metal screens provide long lasting durability and feature an easy-to-remove design for efficient product changeouts
- Optional screen with constant ball agitation aids particle stratification and prevents screen binding for more efficient cleaning
- Optional multiple deck configuration and fan housing provide superior product separation
- Quick turnaround spare parts to keep your machine running smoothly



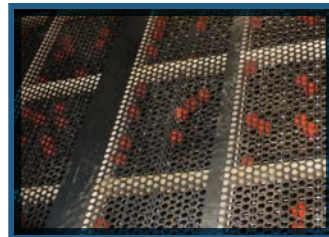
Options & Accessories

- Single or double deck configurations
- Ball screen option
- Cover options including open, covered or totally-enclosed models for use outdoors or in dust-free environments
- Custom perforations or wire mesh screens

Sample Applications

Our air finisher products perform reliable and efficient cleaning and screening of materials in a wide variety of industries.

- | | |
|---------------------|--------------|
| • Animal Feed | • Pellets |
| • Bark & Wood Chips | • Plastics |
| • Cereal | • Potatoes |
| • Corn | • Oat Groups |
| • Feed | • Rice Hulls |
| • Grain | • Vegetables |
| • Nuts | |



Ball Screen Deck



Auger Screw



Multiple Screening
Decks



Heavy-Duty
Construction

Grain Cleaner

Having manufactured tens of thousands of grain cleaners over the years, S. Howes has perfected the machine's design and manufacturing process. With outstanding efficiency, our grain cleaners remove fines and oversized particles using precision screening and air aspiration.

With heavy-duty, all-steel construction, eccentric-less Barbeau drives, and a variety of screening designs, processors receive the highest quality grain cleaning equipment in the market. Our grain cleaner models offer secure, effective, and dependable grain cleaning solutions catering to independent processors and production-focused grain elevators and terminals.

Available in 20 standard and custom models, which can reach capacities of up to 10,000 bushels per hour, custom models are job-engineered to meet your production needs (for example, 25,000 bushels per hour).



Features & Benefits

- Robust, heavy-duty construction design provides proven long-lasting and reliable grain cleaning
- Combines air aspiration with screening action to provide the most efficient and successful method of cleaning
- Dynamic ball screens provide continuous screen cleaning
- Scalping, main and seed screens
- Precision feed control for efficient throughput
- Cleans efficiently at less cost
- Driven by patented Barbeau eccentricless shaker drive

Options & Accessories

- Ball screen frames
- Metal screen frames

Sample Applications

S. Howes authentic ball screens provide constant agitation to promote particle stratification for more efficient cleaning, even when used with materials that tend to clog easily.

- Grains
- Barley
- Coffee
- Corn
- Malt
- Oats
- Rice
- Seeds
- Soybeans
- Wheat



Fan Damper Adjustment



Screening Deck



Take Away Conveyor



Drive System

Complete Integrated Systems

S. Howes can provide additional processing equipment such as dryers, coolers, and air pollution control systems to handle various stages of material processing. These machines can be integrated upstream or downstream into existing or new process lines.

Engineering & Manufacturing

- 3D equipment modeling
- State-of-the-art manufacturing facilities on three continents with robotic cutting and welding
- Manufacturing expertise working with mild steel, various grades of stainless steel, duplex steels and other exotic alloys for specialty applications
- Welders certified to ASME & AWS standards
- ISO 9001:2015 certified



Innovation Center & Testing Lab

Be confident that your powder and bulk solids processing is efficient with CPEG's 15,000 ft² state-of-the-art test lab. With our lab, you have access to the most extensive testing capabilities in the industry. Multiple pieces of equipment can be combined for multistep and multistage testing to simulate field operation, validate new equipment designs and provide complete process solutions. Combined with our full analysis of material characteristics and measurements of material behavior in specific processing applications, you are assured an efficient, reliable and safe solution.

Field testing with rental equipment is available when lab testing would not effectively simulate process operating environments.

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