

# Process Equipment



## ***Complete Range of Equipment:***

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



## Mixers & Blenders

S. Howes mixers and blenders provide superior, uniform mixing with either a ribbon or paddle agitator and can be used in batch or continuous operation. Double-ribbon agitator mixers feature our original reverse-spiral design for consistent, high capacity blending. Mixall, Powermix, Sanimix, Pug Mills, and thermal mixers are available for a variety of industries and applications. All mixers can be custom engineered for specific materials and requirements.



Batch Ribbon Blenders



Lab Mixer



Batch Paddle Blenders

Continuous Paddle Blender / Pug Mill



Jacketed Mixer (Heating & Cooling)



Ribbon Agitator



Paddle Agitator



Ploughshare Agitator

## Screw Conveyors

S. Howes conveying equipment includes heavy-duty and sanitary screw auger designs, Split Tube conveyors, Tubular conveyors, and U-trough conveyors with dewatering, drying, heating and cooling options. Heat transfer is accomplished through contact with an external jacket and/or through the transfer auger itself. Feeders can be customized with several shaft seals and various hopper designs.



Thermal Conveyor

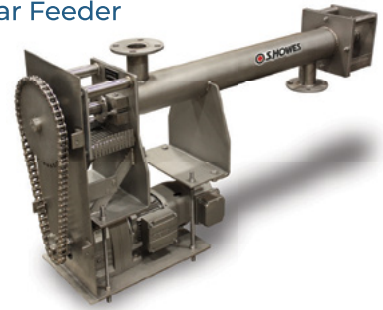


Split Tube



U-Trough

Tubular Feeder



Custom Conveyors



### *Complete Processing Solutions:*

Quality and robust equipment from S. Howes is built for a lifetime and is proven in numerous industrial applications. Some of our oldest equipment in use today is over 75 years old. As a division of CPEG, additional process equipment can be integrated upstream or downstream for complete multistep process lines.

## Screeners & Separators

S. Howes Screeners use a vibratory or rotary design, and include vibrating tables, separating components, Centrifugal Power Sifters, Air Finishers, and Snappy Shakers. We design and build custom separating and screening equipment to meet specific requirements.

Power Sifter

Snappy Shaker

Air Finisher

Vibrating Table

Grain Cleaner

## Size Reduction

S. Howes accomplishes material size reduction with a variety of cutting equipment including Granulators, Lump Breakers, Knife Cutters, and Power Graters. Our size reduction equipment can be customized for each specific application and size requirements.

Knife Cutter

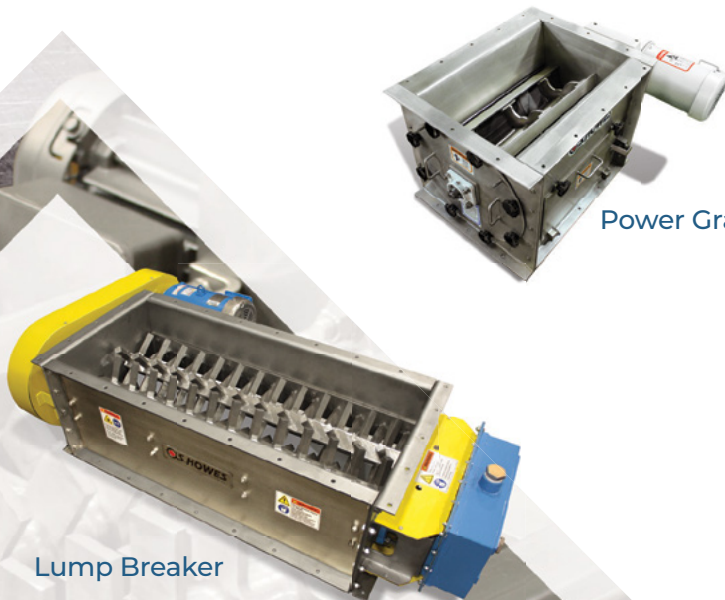
Power Grater



Granulator



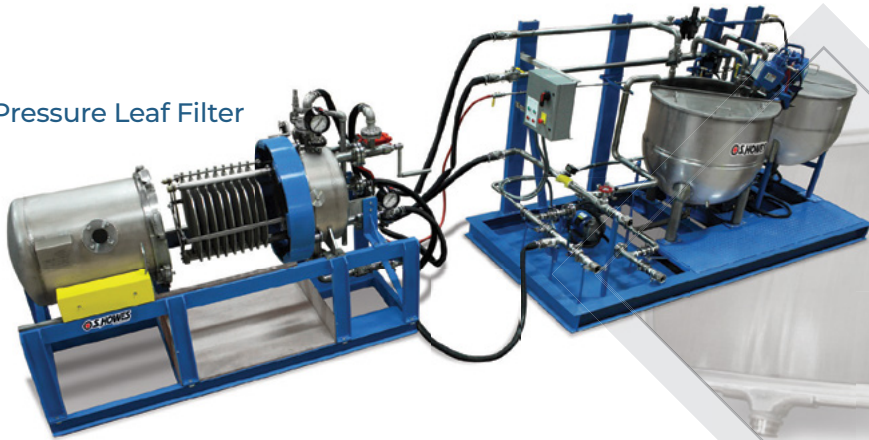
Lump Breaker



## Filtration Systems

Pressure Leaf Filters and Tubular Backwash Filters are designed for efficient liquid/solid separation for a variety of liquid materials. S. Howes provides several types of filtration systems including dual vertical filtration, chlorine wet cake discharge, dry cake designs, and single and dual tube filters. Our dry cake and wet cake discharge filters are available for vertical and horizontal tanks and multiple leaf orientations. Systems typically are skid mounted, and factory piped, wired, and programmed.

Pressure Leaf Filter



Tubular Backwash Filter

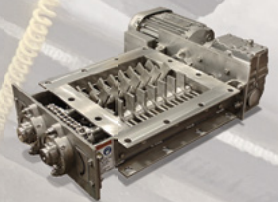
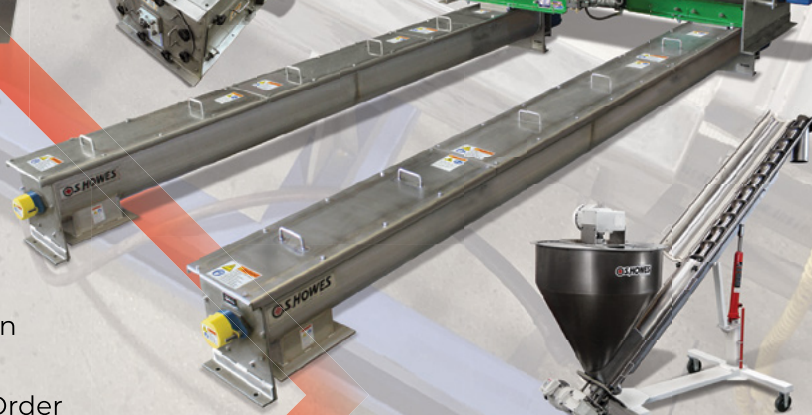


## Serving a Wide Range of Industries & Applications

- Food, Pet Food & Beverage
- Pharma & Nutraceuticals
- Agriculture
- Construction
- Forest Products
- Biomass & Biofuels
- Chemicals, Petrochemicals & Plastics
- Minerals Processing
- Waste & Recycling

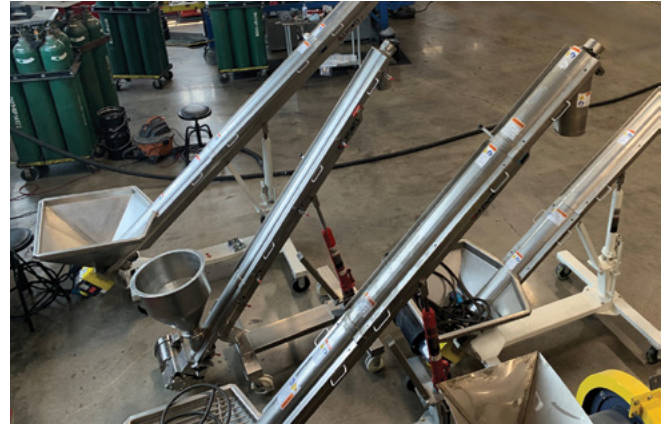
### S. Howes Process Equipment is:

- Built to Last
- Robust, Reliable & Proven
- Designed for Versatility
- Custom Engineered to Order



## 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



## Lab Testing

Be confident that your powder and bulk solids processing is efficient with CPEG's 15,000 ft<sup>2</sup> 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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