

# Industrial Screw Conveyors

Conveyors are custom engineered by S. Howes to meet difficult process requirements. Our custom conveyors offer a range of benefits across various industries. Whether it's automating food processes such as unloading systems with sanitary screw conveyors and feeders with a quick cleanout design, incorporating thermal jackets into conveying systems to cool high-temperature chemicals, or designing portable or inclinable split-tube conveyors that provide adaptability, S. Howes has you covered.

Our conveying equipment includes heavy-duty and sanitary screw auger designs, mechanical split tube conveyors, tubular conveyors, and U-trough conveyors with dewatering, heating, cooling, mixing, and drying options. Feeders can be customized with several shaft seals and various hopper designs.



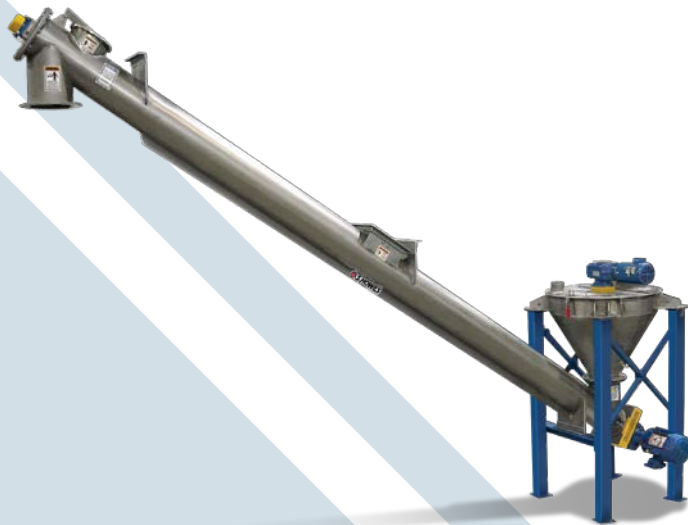
## Complete Range of Process Equipment

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



## Split Tube Screw Conveyors

- Quick-access hinged covers provide easy access to the auger for cleaning and maintenance
- Bottom cleanout for ease of drain at wash down
- Heavy-duty construction – Exceeds CEMA standards
- Continuous or intermittent auger weld
- Inclined or horizontal configuration with easily adjusted hydraulic height control
- Removable hoppers
- Counterbalanced for maximum safety



## Tubular Screw Conveyors

- Enclosed tubular housing provides containment of product
- Eliminates U-Trough dead space
- Heavy-duty design exceeds CEMA standards
- Tight Auger-to-Trough clearance
- Simple adjustment with hydraulic height control
- Standard bottom mount direct drive
- Counterbalanced to assure safety
- Continuous or intermittent auger weld

## U-Trough Screw Conveyors

- Heavy Duty Construction: Exceeds CEMA standards
- Tight Auger-to-Trough clearance
- Direct drive
- Bolted, hinged, or clamped sectional covers
- Customer specific inlets/discharge
- High quality components



## Volumetric Feeders

- Robust, heavy-duty construction exceeds CEMA standards
- High quality components provide long-lasting durability
- Tight Auger-to-Trough clearance for maximum efficiency
- Direct or chain drive
- Sectional covers
- Customer specific inlets/discharges to meet product requirements

## Options & Accessories

- Available in carbon or stainless steel construction
- High grade finishes available
- Packing gland seals
- Rotating mechanical seals
- Continuous and ground smooth welds
- Custom drive arrangements
- Custom hoppers & hopper agitators
- VFD or base-mounted starter controls
- Heating & cooling options
- Totally portable option
- Self-contained dust hood
- Bag dump stations



Quick Access Clamps



Protective Grating



Custom Hopper



Thermal Jackets

## Enhancing Thermal Processing

Thermal heating and cooling processes where indirect heat transfer is required or preferred. Heat transfer is accomplished through contact with an external jacket (bolt-on or integral) and/or through the transfer auger itself. The material is heated or cooled while being transferred down the length of the conveyor.

Our multiple independent jacket panel configuration is more efficient compared to traditional designs. With this configuration, a parallel feed of fluid flows to each jacket panel so product is exposed to a fresh temperature cycle every time it passes from one panel to the next. This consistently and efficiently cools or heats the product throughout the entire length of the conveyor.

## Sample Applications

S. Howes' sales and engineering personnel can recommend a standard design for your application or work with you to develop a custom design, depending on your unique needs. If the features and options you need are not listed, call to see how we can develop a solution to meet your requirements.

- Powdered Milk
- Ground Meat
- Glass Bead
- Chemicals
- Cosmetics
- Pigments
- Regrind
- Plastics
- Pellets
- Resins
- Batter
- Sugar
- Food
- Grain
- Cereal
- Carbon
- Flour
- Salt
- Fly Ash
- Rare Earth Elements



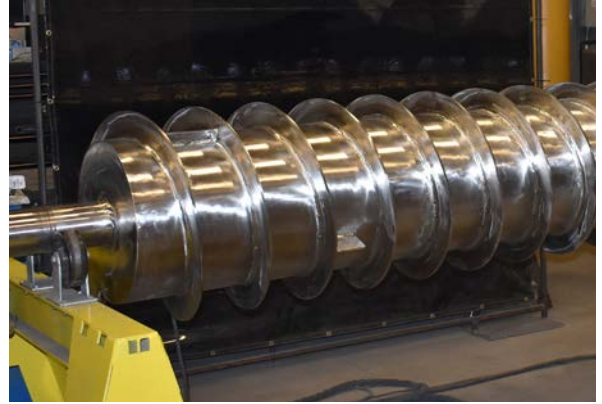
## Complete Integrated Systems

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 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.

S.HOWES LLC  
25 Howard Street  
Silver Creek, NY 14136, United States  
Tel: +1-716-934-2611  
showes.com | sales@showes.com

Carrier Process Equipment Group, Inc.  
3400 Fern Valley Rd  
Louisville, KY 40213, United States  
Tel: +1-502-969-3171 | Fax: +1-502-969-3172  
cpeg.com | info@cpeg.com

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**OWNED**

