



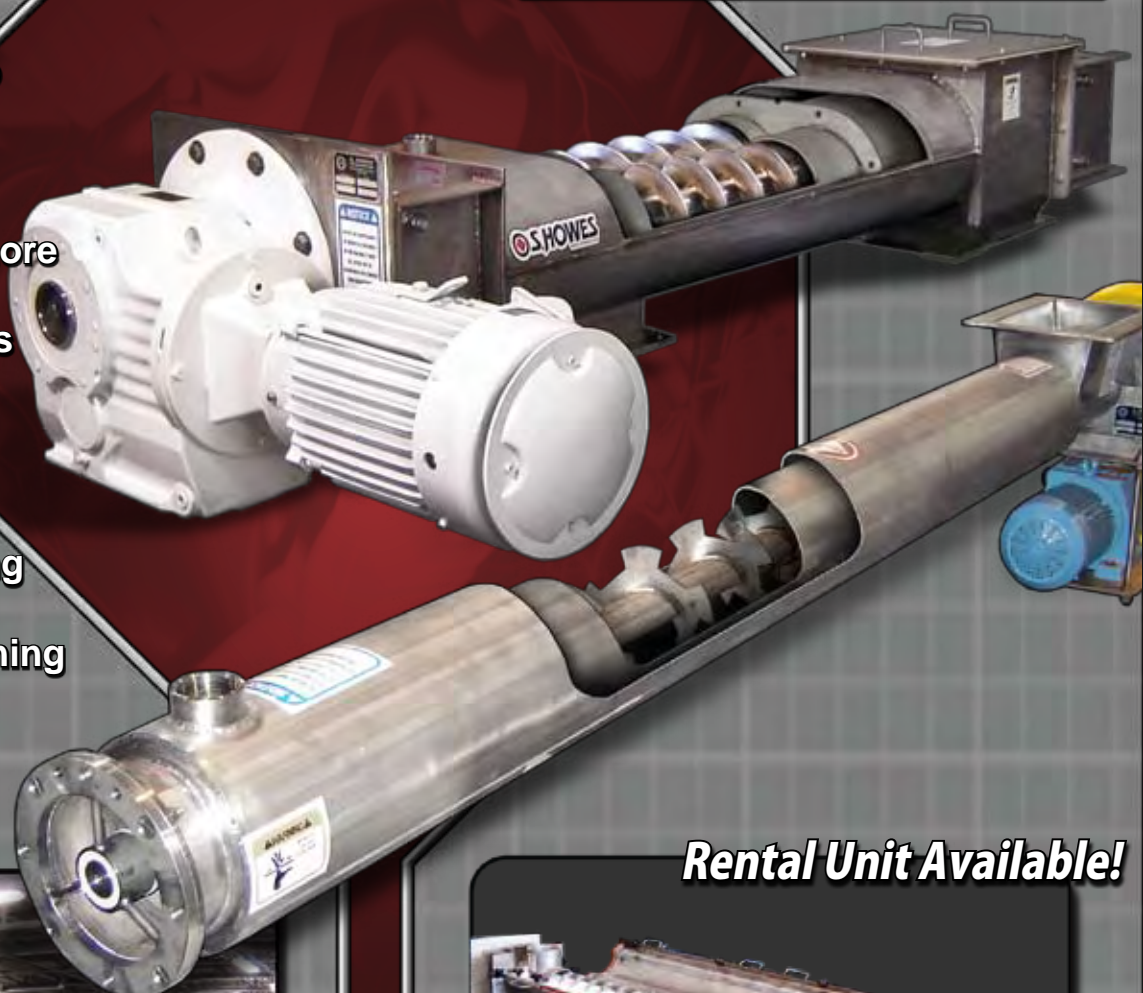
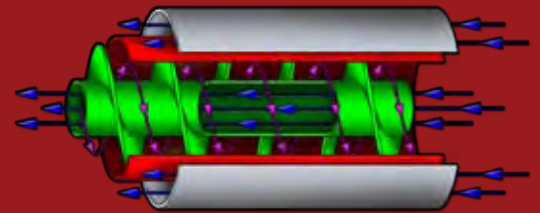
Cooling/Heating Screw Conveyors

Sample Industries

- BioMass
- BioFuels
- Foods
- Dairy
- Paper and pulp
- Minerals
- Chemical
- Petrochemical
- ... and many more

Sample Processes

- Drying
- Polymerization
- Heat curing
- Cooling/freezing
- Microbial kill
- Sintering/calcining
- Dewatering



Testing Available!

Rental Unit Available!



For more information
 contact one of our Sales Engineers
sales@showes.com
www.showes.com

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 Toll Free: (888) 255-2611
 Fax: (716) 934-2081
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Cooling/Heating Conveyors

A mechanical, dependable solution to your processing needs



ENGINEERED-TO-ORDER

S. Howes can assist in the design of heating and cooling equipment for your specific application. All materials are unique in their thermal heat transfer characteristics. Such factors include: particle size, density, viscosity, etc. After establishing a heat transfer coefficient, among other factors, S. Howes staff can assist

in the specification of equipment for your application. Typically, this requires material testing in our lab. When testing in our lab may not be practical, equipment can be shipped to your facility for on-site testing. A technician is available to assist your staff in operating any equipment. Leverage our experience!

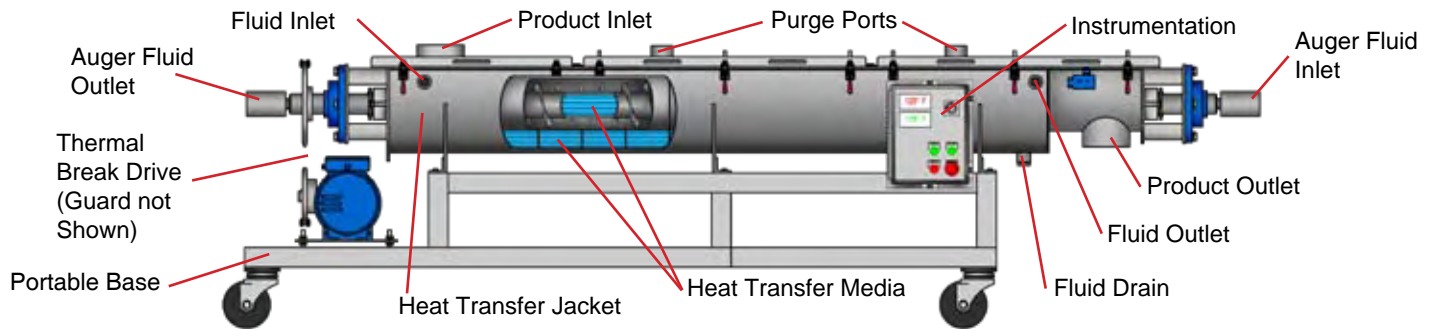
APPLICATIONS FOR COOLING/HEATING SCREW CONVEYORS

PROCESS	THROUGHPUT CAPACITY*	TEMPERATURE RANGE*	SCREW DIAMETER RANGE	THERMAL TRANSFER CONTACT AREA	HEAT/COOLING MEDIA
COOLING	As low as 100 lbs./hour to as high as 5 tons/hour	MIN (out) 60 °F MAX (in) 1000 °F	4" to 36"	up to 600 sq. ft.	Water Glycol
HEATING	As low as 100 lbs./hour to as high as 2 tons/hour	MIN (in) 50 °F MAX (out) 400 °F	4" to 36"	up to 600 sq. ft.	Water Steam Glycol Hot Oil
DRYING/ DEWATERING	Can remove as much as 50 lbs. of water/hour	MIN (in) 100 °F	4" to 36"	up to 600 sq. ft.	Steam Hot Oil

5 to 200 psi
(ASME stamped over 14.9 psi)

*Ranges shown here are typical but not absolute. Different configurations may be designed to fit your needs. Contact S. Howes to discuss your specific application.

SAMPLE COOLING/HEATING CONVEYOR LAYOUT



DESIGN OPTIONS FOR THERMAL CONVEYORS

	Auger Types <ul style="list-style-type: none"> • Single/Twin/Multi screw • Heated/Cooled shaft • Hollow flights • Ribbon or cut flighting
	Seal Types <ul style="list-style-type: none"> • Rotating Mechanical • Packing Gland • Custom
	Jacket Types <ul style="list-style-type: none"> • Cooling jackets • Heating jackets • Integral or bolt-on • ASME "U" and "R" stamp

DESIGN OPTIONS FOR THERMAL CONVEYORS

	Instrumentation <ul style="list-style-type: none"> • Temperature in/out readout • Flowmeters • Variety of pressure gauges available • Customized control panels
	Heaters/Coolers <ul style="list-style-type: none"> • Single, dual or triple zone configurations • -5 °F to 600 °F temperature control • Designed for your needs
	Customized <ul style="list-style-type: none"> • Inlet/outlet custom designs • Stands built-to-order • NDE and X-ray options available • Various insulation options available

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