



Screw conveyors are among the most economical methods of handling semi-solid bulk materials such as waste solids. Elgin's conveyors are designed for assembly into custom configurations that meet your specific material handling requirements. Conveyors are available in a wide range of sizes, lengths, configurations, and materials of construction.

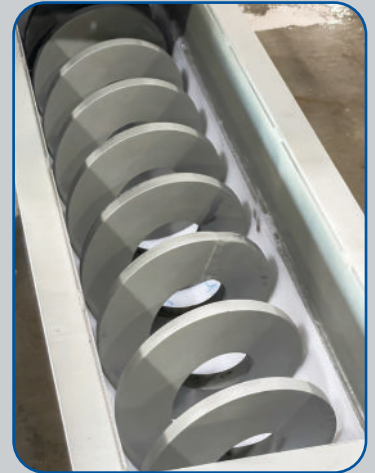
Our drive sections feature a heavy duty drive motor and gearbox configurations designed to handle job specific applications. All troughs are constructed of heavy-duty steel plate coated with industrial-strength epoxy paint. Sealed hanger and end bearings support the long-wearing steel auger. Super-duty coupling shafts connect the auger between sections. Options include pushbutton electric start and speed control, safety gates, abrasion resistant flites, safety pull cables and an emergency stop device.

Shafted Screw Conveyor



- Ideal for conveying dry to semi-fluid bulk materials – free flowing to sluggish
- Cost-effective when compared to other conveying devices such as belt conveyors
- Efficiently distributes bulk materials to various locations using multiple inlet and discharge points

Shaftless Screw Conveyor



- Ideal for handling sticky and sluggish bulk materials
- Improved conveying efficiency when compared to other types of conveyors
- Internal bearings are eliminated
- No center pipe that causes product build up
- Replaceable trough liner



Gearbox Configurations

MVD-Driven and VFD-Driven Gearbox

Elgin gearboxes are made of cast iron with a steel shaft in various sizes and different gear reduction ratios. Our gearboxes can be configured to be mechanically-variable or direct with inverter-duty, VFD-driven motor, and a variety of motor installation configurations.

High Efficiency Feeding Hopper

Depending on operational parameters, Elgin's in-house engineering can custom design material feed hoppers. Engineered hoppers allow for increased flow of both free and non-free flowing bulk material while eliminating or decreasing the amount of residual material buildup at the conveyor starting point.



Custom Engineered Hoppers



Abrasion Resistant Liners

Abrasion Resistant Liner

Installed only on shaftless conveyors, Elgin's abrasion resistant liner assists in movement of material and conveyor life helping to minimize downtime for trough cleaning and maintenance.

Screw Conveyor Specifications

Shafted

Diameter	Description	Diameter	Description
12"	12" x 3/8" Full Pitch Screw. 3.5" Schedule 80 Pipe. Hanger Bearings Where Needed with UHMW Bearings. Tough End. 12" x 1/4" U-Trough. Standard Inlet and Discharge. 14 Gauge Covers or Protective Grating. Class I – Division I Explosion Proof Motor	14"	14" x 3/8" Full Pitch Screw. 3.5" Schedule 80 Pipe. Hanger Bearings Where Needed with UHMW Bearings. Tough End. 14" x 1/4" U-Trough. Standard Inlet and Discharge. 14 Gauge Covers or Protective Grating. Class I – Division I Explosion Proof Motor
	Available Lengths		Available Lengths
	12' (10 HP) 18' (10 HP) 24' (15 HP) 30' (15 HP) 36' (15 HP) 42' (15 HP) 48' (15 HP)		12' (15 HP) 18' (15 HP) 24' (20 HP) 30' (20 HP) 36' (20 HP) 42' (20 HP) 48' (20 HP)

Shaftless

Diameter	Description	Diameter	Description
6"	Continuous Duty Motor with Integrated Gearbox. Includes 1" Thick Steel Flite and Grating Covers. Standard Inlet and Discharge. 1/2" UHMW Liner	9"	Continuous Duty Motor with Integrated Gearbox. Includes 1" Thick Steel Flite and Grating Covers. Standard Inlet and Discharge. 1/2" UHMW Liner
	Available Lengths		Available Lengths
	12' (5 HP Motor) 18' (5 HP Motor) 24' (5 HP Motor)		12' (5 HP Motor) 18' (5 HP Motor) 24' (7.5 HP Motor)
12"	Continuous Duty Motor with Integrated Gearbox. Includes 1" Thick Steel Flite and Grating Covers. Standard Inlet and Discharge. 1/2" UHMW Liner	14"	Continuous Duty Motor with Integrated Gearbox. Includes 1" Thick Steel Flite and Grating Covers. Standard Inlet and Discharge. 1/2" UHMW Liner
	Available Lengths		Available Lengths
	12' (7.5 HP Motor) 24' (10 HP Motor) 36' (15 HP Motor)		12' (7.5 HP Motor) 24' (15 HP Motor) 36' (20 HP Motor)