

# Screw Conveyors

Conveyance Systems



# Schwing Bioset Screw Conveyors

Screw conveyors can be an efficient solution to collect, classify, transport and distribute materials, or unload silos. Designed for use in demanding applications and to move a wide range of materials, the high-quality conveyors Schwing Bioset produces are available in multiple configurations to suit the challenges of every application.

Available as shafted, shaftless, or with ribbon flights, screw conveyors can be configured horizontally, inclined, vertically, as a live bottom, or as a mixer, to solve any number of challenges within your plant.



## No Task Too Big or Small



### Applications and Common Uses

Schwing Bioset will customize screw conveyor systems to the specific needs of your plant. Applications and common uses include:

- **Classifying:** Typically used under centrifuges to allow centrate produced during startup to be diverted away from the solids line.
- **Extraction:** Used under a sliding frame, an extraction conveyor will remove material from a flat-bottomed silo to feed downstream equipment.
- **Live Bottom:** Two or more screw conveyors coupled together form a “live” bottom under a bunker to extract material. Live bottoms may be employed on either rectangular or round silos.
- **Reversing:** Allows discharge of material from either end of the screw conveyor.
- **Distribution:** Allows multiple outlets to evenly load a trailer or bunker.
- **Mixing:** Systems with two augers and intermeshing self cleaning flights are available when product mixing is necessary.

# Performance You Can Count On

Combined with Schwing Bioset's pumping and material handling expertise, our engineers have been providing high-quality material storage and transport systems for over 30 years. Trust our experts to make your next project a success, whether it requires just screw conveyors, or any combination of conveyors, pumps, and bins as a fully integrated system.



## The Features You Want

### Screw Conveyor Features and Options

- **Variable Pitch:** For even draw down in sliding frame and live bottom systems. A variable pitch allows material to enter the auger across its entire length, allowing even drawdown of silo contents.
- **Ribbon Flights:** Sticky material can accumulate at the junction of the flight and the shaft. The ribbon flight reduces potential loss in efficiency due to material accumulations within the conveyor.
- **Hardened Flights:** Abrasive applications call for hardened steel or hard-facing the flights for extended life.
- **Wear Liners:** Shaftless conveyors feature a replaceable UHMW wear liner inserted into the trough of the conveyor.
- **Covers:** Can be bolted or hinged to allow access to the interior of the system.
- **Odor Control:** Can be connected to the conveyor trough to aspirate as necessary.
- **Explosion Proof:** Systems can be offered for operation in classified areas.



## Schwing Bioset Solutions for Water and Wastewater



### **Piston Pumps for Solids**

High-pressure positive displacement piston pumps with lowest life cycle costs to efficiently transport biosolids through pipelines.

### **Class A Bioset Process**

Advanced alkaline stabilization technology that is totally enclosed and PFRP approved to operate at 55°C.

### **Screw Press Dewatering**

High-performance dewatering with low energy and maintenance requirements and the widest range of model sizes available.

### **Container Wagons**

Evenly load containers with ground accessible service points, minimal maintenance requirements, and full automation.

### **Membrane Bioreactors (MBRs)**

Microfiltration systems with end-free hollow fiber membranes.

### **Sliding Frames & Storage Silos**

Truck receiving, truck loading, or intermediate storage of dewatered solids with lowest cost of ownership.

### **Class A Fluid Bed Drying**

Thermal drying technology operating under inert conditions with high thermal efficiencies and low maintenance requirements.

### **Phosphorus Removal / Struvite Recovery**

Remove nutrients from wastewater, improve dewatering, reduce scaling, and create a struvite end product.

### **Residuals Management**

Offered through a partnership with our resource recovery company to transport, market, and beneficially reuse residuals.

### **Screw Conveyors**

Shafted, shaftless, and ribbon flight offer a convenient means to collect and transport biosolids.

## Contact Information

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