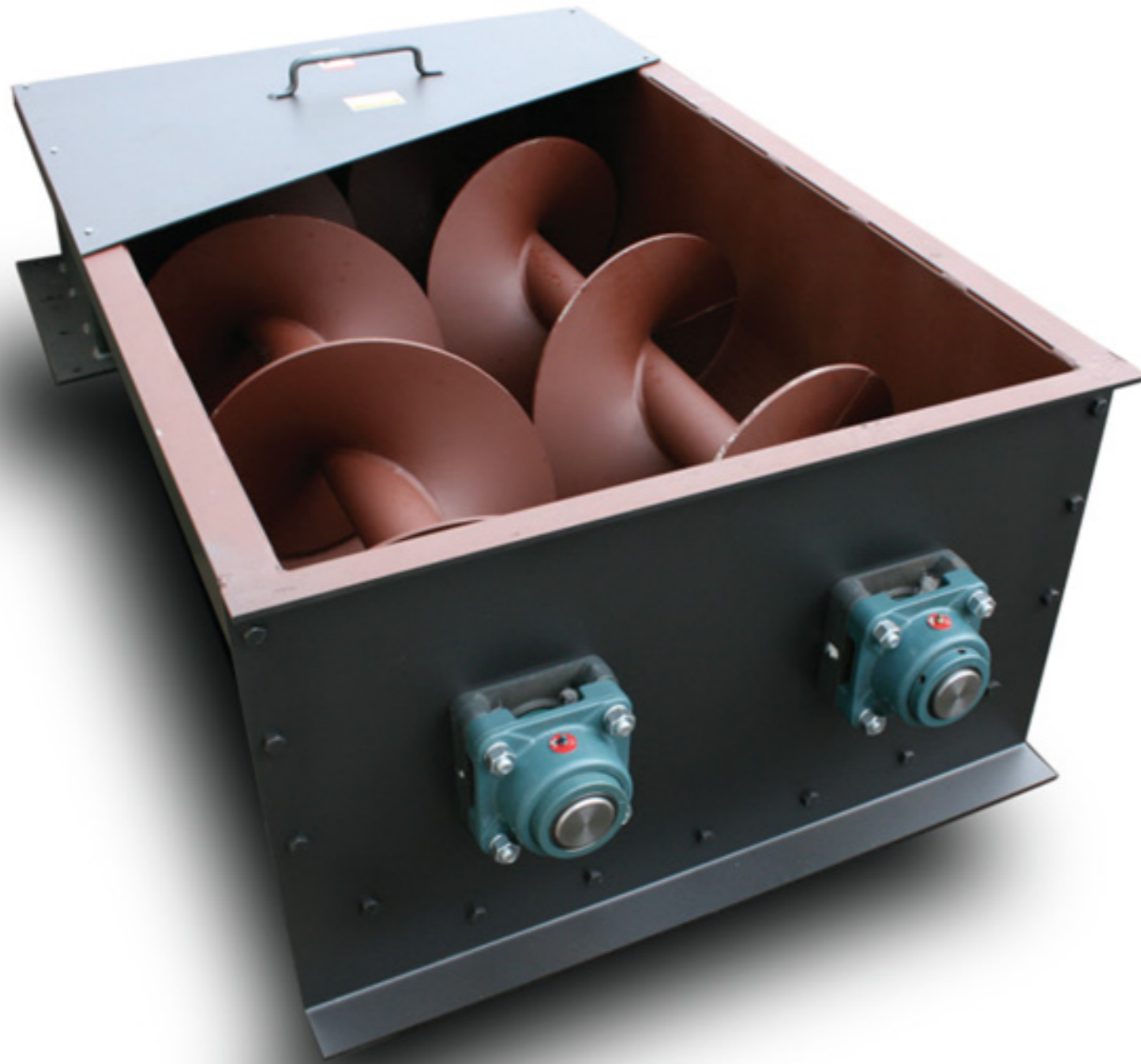


Extreme Material-Handling Challenges - Require **EXTREME** Components!



**PRECISION**  
MACHINE & MANUFACTURING




## CUSTOM SCREW CONVEYORS

**Flights, Troughs, &  
Complete Systems**

Designed and engineered to meet the specific requirements of the operational environment. Maximize longevity and durability, while improving functionality and throughput.

*Screw Conveyors for the world's harshest material handling environments!*

 [premach.com](http://premach.com)

**"Application - Specific Screw Conveyors provide a superior return on investment!"**



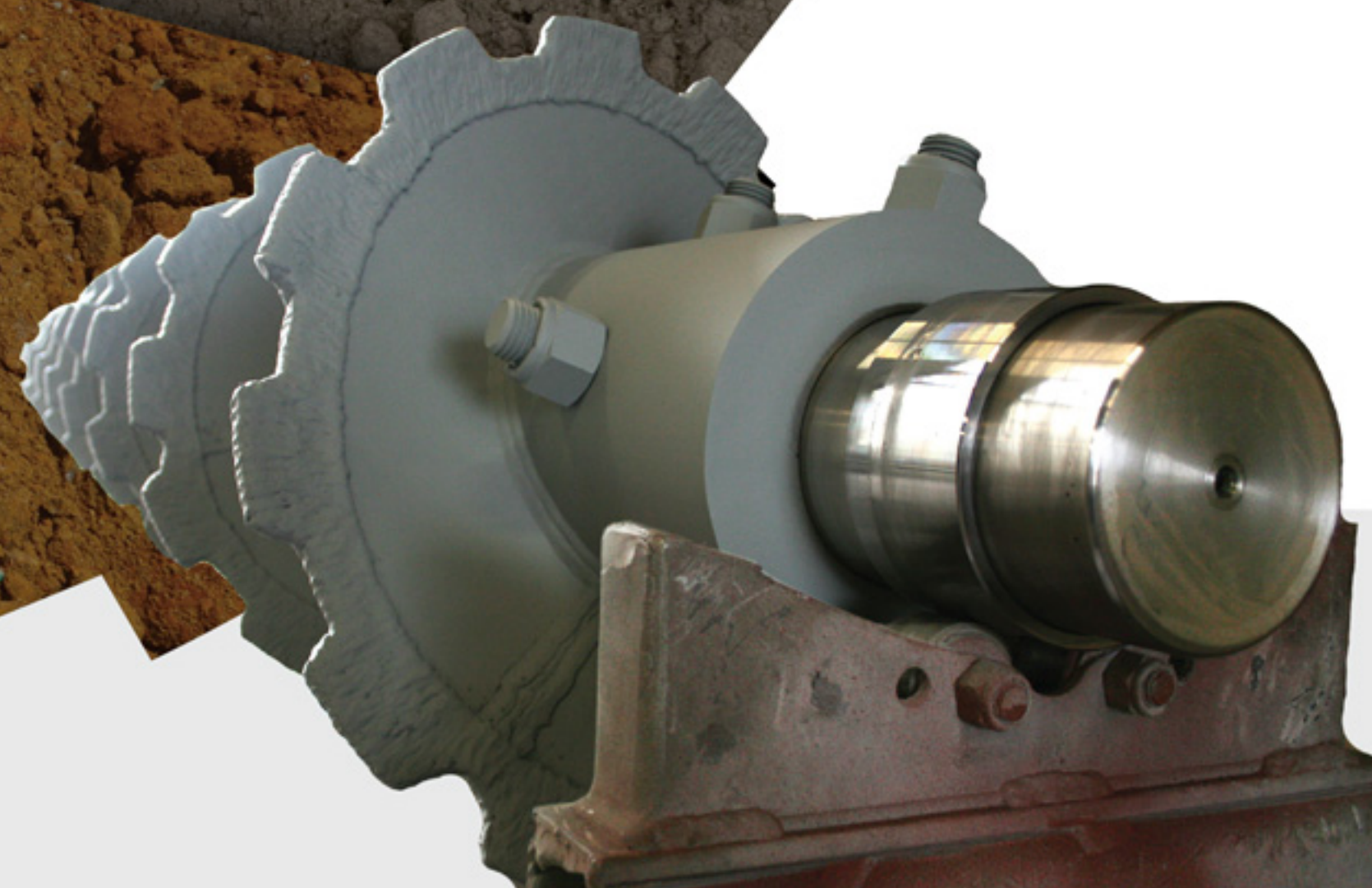
**Rotary Feeders • Rotary Valves • Screw Conveyors**



# Precision Screw Conveyors

Precision's Screw Conveyors are the ultimate screw conveyor solution! Custom engineered, abrasion-resistant and built for extreme-duty performance. When standard, run of the mill screw conveyors continue to cause unscheduled down-time, it's time for a solution from Precision Machine & Manufacturing!

**We build Screw Conveyors for the industries' most difficult applications!**



## PRECISION SCREW CONVEYORS What Makes Our Screw Conveyors Work

### Shafts

Shaft size varies with every screw design and is carefully chosen to meet the throughput needs of the application.

### Rebuildable!

Every screw conveyor is manufactured with the ability to be rebuilt. Rebuilding a screw conveyor allows the unit to be reconditioned, refreshed and reused.

### Upgrades & Accessories

**PMM Screw Conveyors are THE upgrade!** However, for applications needing a little something extra, we have a variety of options available ranging from specialized surface treatments to corrosion and abrasion resistant alloys.

### Focused Industries



### Flights

Our standard is to double pass weld all flights to ensure longevity of the weld and maximize durability. In difficult applications, we oftentimes make a triple pass! Whether pulling custom flights or hand forming variable pitched flights for a specific application, there is simply NO ONE better! Built from a variety of material types and in a plethora of configurations! When it comes to flights, PMM builds the flights that last!

### Trough Systems

Open troughs, closed troughs and custom troughs. Regardless of the type of trough, Precision Machine & Manufacturing can build a system that will meet your needs!

### HD Bearings

Equipped with heavy-duty, industrial grade, high load outboard tapered roller bearings to ensure proper shaft alignment and durability. The additional waste pack further seals the trough, which keeps the bearing cleaner and running longer!

### Customized

Every screw conveyor system is engineered and designed to meet the specific needs of the application. There is nothing "standard" about our screw conveyors! **The more custom, the better!**

### Gearmotors

Gearmotors are chosen and carefully selected to ensure they deliver the required throughput and can withstand the operating environment. Just like our screw conveyors, the gearmotors we choose are heavy duty!

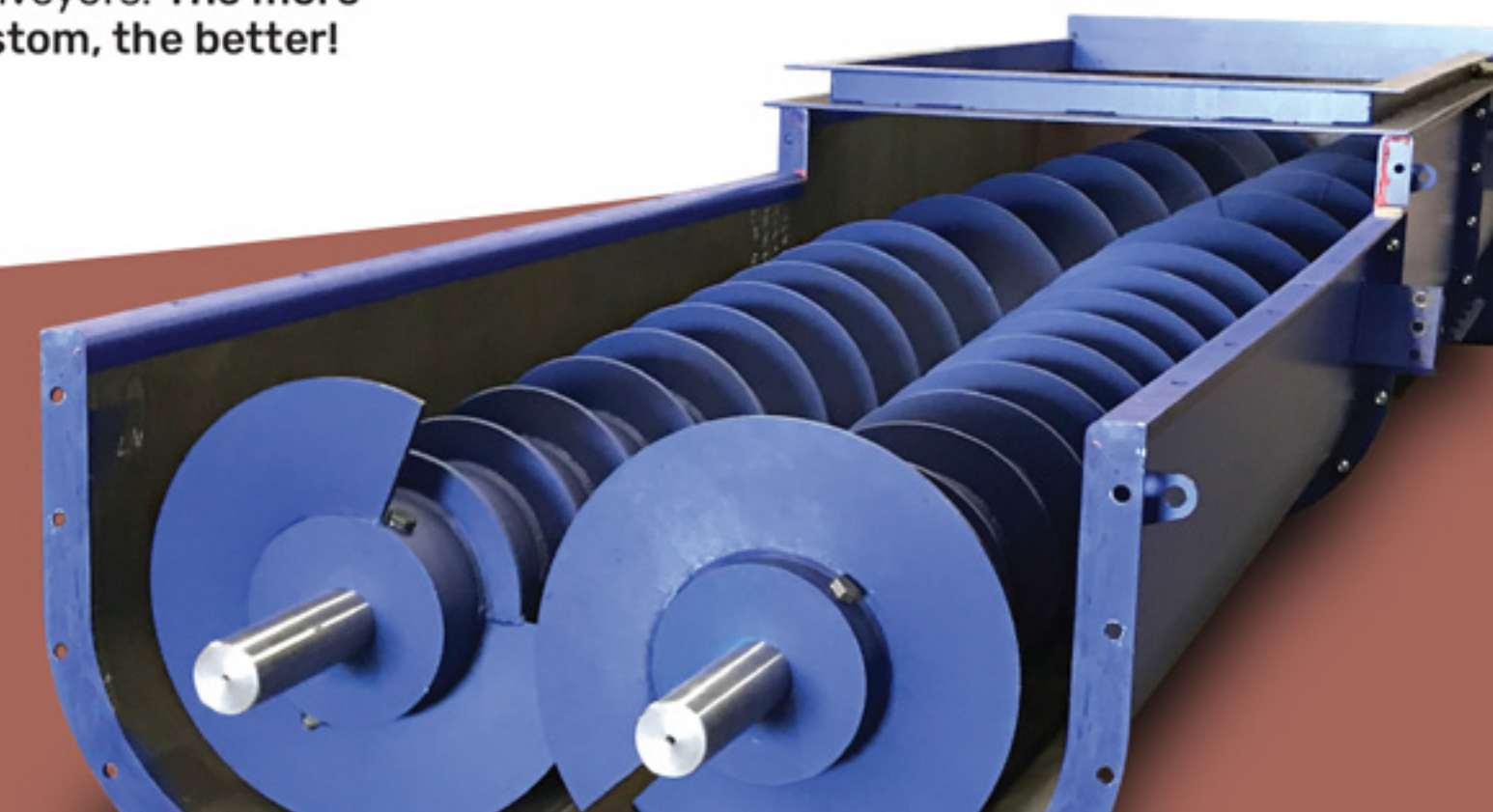
### USA Manufactured

Every screw conveyor is manufactured right here in the United States of America by hard-working Americans who have a strong desire to build the highest quality screw conveyors available.

## Application Specific

At the leading manufacturer of specialized application specific screw conveyors, Precision Machine & Manufacturing works tirelessly to create the optimum engineered solution! One that will improve throughput, eliminate unscheduled downtime, and decrease maintenance costs.

**Screw Conveyors designed to do the job!**



## PRECISION SCREW CONVEYORS Key Advantages

- ✓ Meticulously engineered and hand-crafted to exceed the requirements of the application, we don't just strive to build a "good" screw conveying system, we strive to build "the best" screw conveyor commercially available.
- ✓ **SOLUTIONS DRIVEN!** Not product focused. This is what sets PMM apart and why we don't take a "one size fits all" approach by selling standard sizes. Lots of companies form flights, weld them onto a pipe and call their product a "screw conveyor." Here at PMM, we engineer and design a conveying solution that will meet the unique needs of the operational system and the materials being conveyed. **This is how we deliver Satisfied Customers Every Time!**

Precision Machine & Manufacturing's Screw Conveyors are precisely crafted by hard-working Americans, using the finest abrasion and corrosion resistant, domestically sourced raw materials available. **Quality you can count on!**



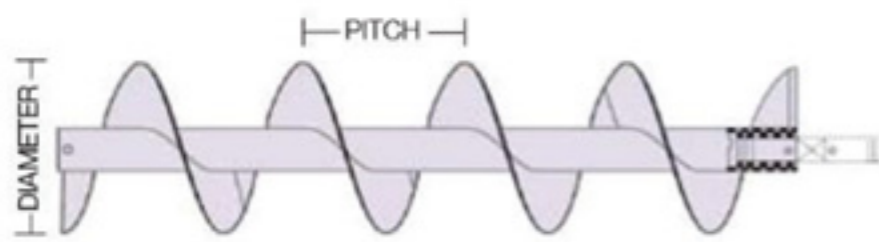
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# Screw Conveyors, Troughs, Flights & Related Components.

Designed and engineered to meet the specific needs of the application, Precision Machine & Manufacturing is the industries' leading manufacturer of abrasive & corrosive resistant Screw Conveyors.

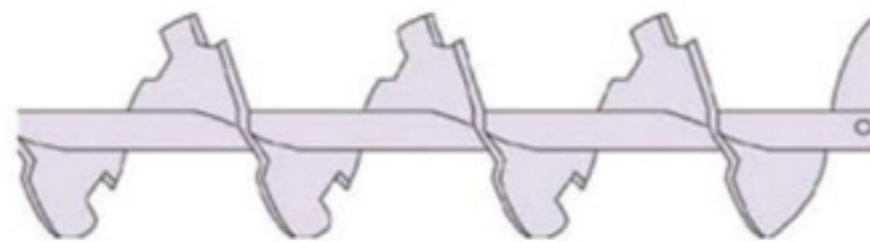
## A few of our more common screw conveyor designs.

### SECTIONAL FLIGHT AND SCREWS



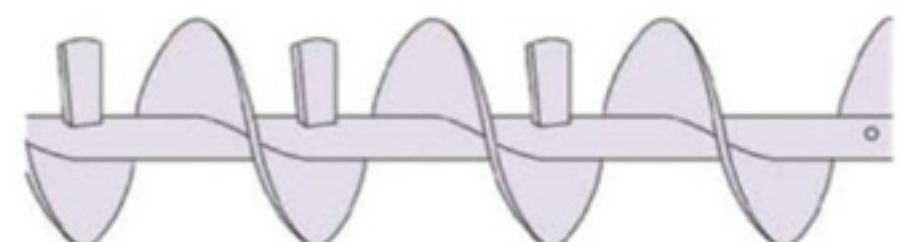
Ideal for high-wear applications and available in a variety of diameters and flight pitches. Significantly longer life and far more effective than standard helicoid screw conveyors.

### CUT FLIGHTS



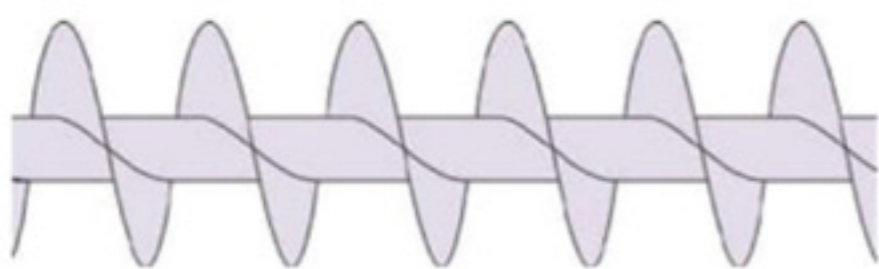
A perfect option when moving materials that tend to pack or that are in need of agitation and/or mixing during transit.

### MIXING PADDLES



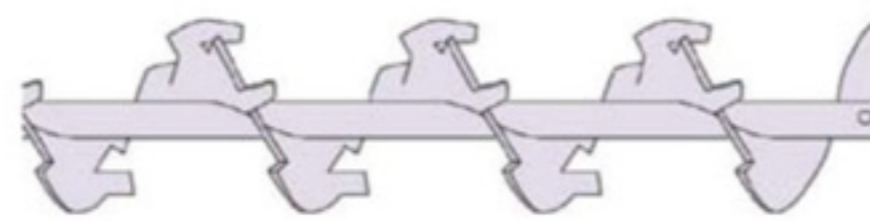
Paddles serve a variety of purposes, whether to provide a stronger mixing action or to slow the material down during transit, paddles are extremely common and able to be installed on most screw conveyors.

### SHORT PITCH



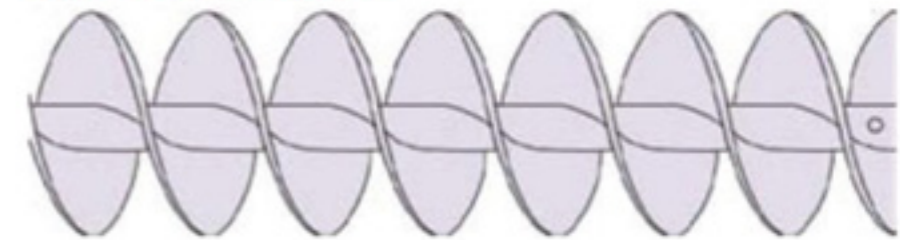
A great option for materials that aerate and become fluid and/or are moving up an incline.

### CUT AND FOLDED



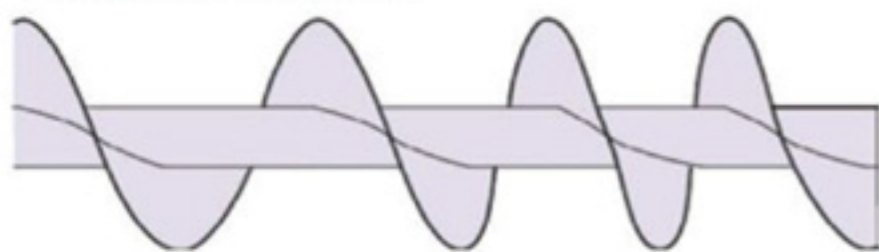
A perfect solution for aerating and mixing material simultaneously during transit.

### DOUBLE FLIGHT



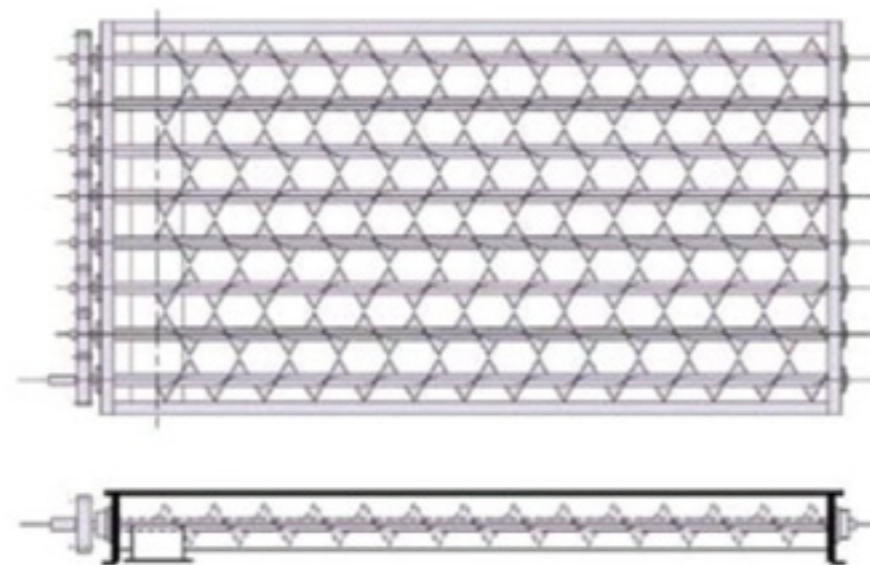
A specialized, application specific screw conveyor that is perfect for smooth uniform flow of material.

### VARIABLE PITCH



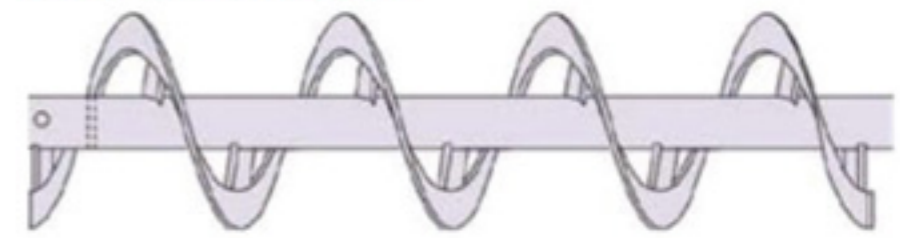
Combination of various pitches is not available with standard helicoid screw conveyors. Flight variability is the perfect solution for uniform withdrawal of fine, free-flowing materials.

### LIVE BOTTOM FEEDER



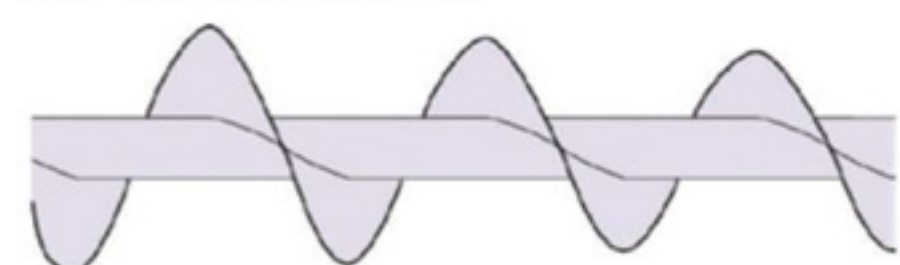
Very Common in applications moving material that is susceptible to packing and bridging. Generally combined with a trough/bin system that contains feeder screws, which draws material out equally for disbursement.

### RIBBON SCREW



The perfect solution for sticky materials and/or materials that are neither completely solid nor completely fluid. The open flight design eliminates material build-up while keeping it flowing.

### TAPERED FLIGHTS



The economical alternative to variable pitch flights, and a great option when moving materials prone to clumping and lumping.

**CONTACT  
PRECISION  
TODAY**

For more information.

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