



**WE OFFER**

**PERFECT**

**MIXING**

**TECHNOLOGIES**



**SCREW & AUGER CONVEYORS**

# ADVANTAGES



## Inclined, Declined, Or Flat, We Do It All

The PerMix thermal screw conveyors provide a full range of bulk material transfer for loading, unloading, or simply transferring. From inclined, declined, or flat, our auger & screw conveyors come in any style needed to achieve your goal, all while maintaining that great engineering, innovation, performance, & quality you know from PerMix.



## Efficient Heat Transfer

The PerMix thermal screw conveyors provide full heat surface utilization with both a heated/chilled trough and auger. The auger's short-pitch screw design promotes gentle material tumbling, promoting more uniform and efficient heat transfer.



## Residence Time Control

Continuous operation means consistent time and temperature exposure for treating material and providing controlled, narrow residence time distribution.



## Minimize Processing Damage

Even throughput and material transfer and slow mixing action minimizes burning, sticking, abrasion, dusting, crushing, or breaking.



## Thick Material Processing

Twin-auger designs are available to process difficult, dough or paste-like materials. Intermeshing flights on the rotor helps promote more even heat-transfer while preventing sticking and promoting self-cleaning.



## Steam Injection

Optional injection capabilities inject steam into the material for cooking or sterilizing applications.



## Operating Cost Savings

Material is heated, cooled, mixed, or dried as it is conveyed, resulting in lower costs, increased efficiency and no product damage or spillage.

## HOW DOES IT WORK?

01

The PerMix thermal screw conveyors are jacketed screw conveyors offering both high heat & cooling

02

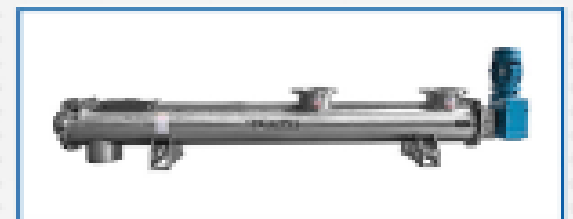
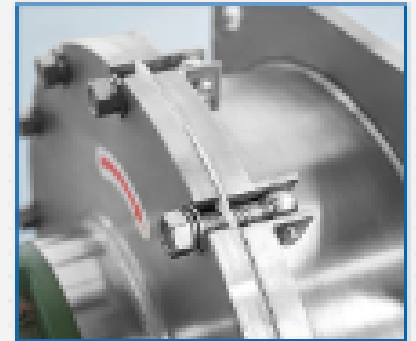
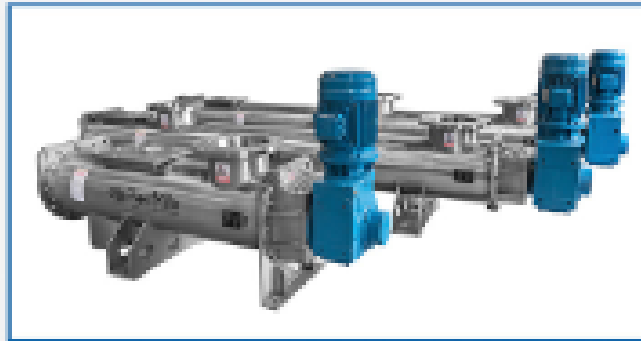
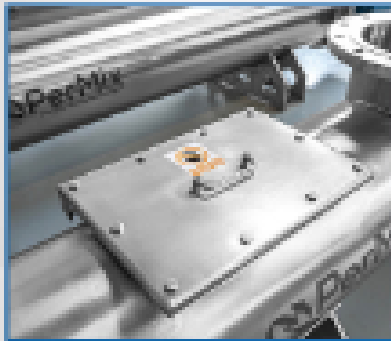
Both the vessel walls and auger are jacketed and can be thermally conditioned using a variety of media including steam, hot thermal oil, chilled glycol, or water. The conveyor provides gentle uniform heating, cooling, evaporation, or even roasting.

03

In processing, material enters on one end of the machine. The screw's gentle rotation begins conveying the material towards the discharge. The screw's slow speed protects fragile materials from the breakage typically seen in other mechanical dryers.

04

The rotational speed of the screw controls the retention, or residence time, inside the auger conveyor. Both residence time and product temperature can be strictly controlled ensuring a consistent product.





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