

Flight Edging

CEMA standard screw conveyor designs utilize a 1/2-inch clearance between the outside diameter of the screw and the inside diameter of the trough. When conveying on an incline, especially where the material is very fine and free flowing, the standard clearance may be too large leading to “fall back” of the bulk material. This “fall back” effect decreases the efficiency of the conveyor by forcing it to convey the same material multiple times prior to discharging.

A common solution to this problem is to install flight edging on the outside diameter of the screw. Flight edging clips on the periphery of the screw flight, taking up some of the clearance between screw and trough. Doing so achieves a close-clearance design without the risk of metal to metal contact.

Features

Variety of Construction Materials – Flight edging is most commonly formed of Ultra High Molecular Weight Polyethylene (UHMW) Polyethylene, but many other options are available depending on application requirements.

Variety of Screw Conveyor Sizes– Flight edging is available in screw conveyor sizes ranging from 6 to 36-inch diameter and flight thickness from 10-gauge to 3/8-inch thick.

Benefits

Variety of Applications – Flight edging is used most commonly for close-clearance screw designs to improve conveying efficiency, but it can also be used in place of a trough liner. The flight edging becomes the wear surface rather than having to install a trough liner.

Ease of Installation and Replacement – Regardless of the material of construction, flight edging is pre-formed to the desired diameter, pitch and flight thickness. When clipped into place, it is secured at the end of each screw section with a single bolt through the edging and base flight.



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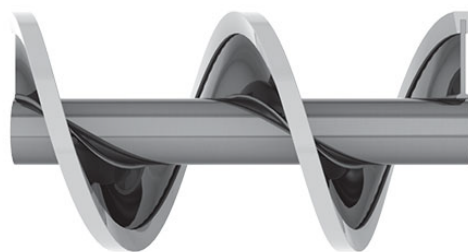
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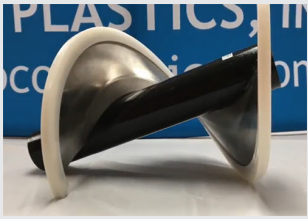
Flight Edging Clips onto
Periphery of Screw Flight



30-Inch Diameter Screws with
Flight Edging for Winery



Features & Benefits



Flight Edging



UHMW Flight Edging for
Stainless Steel Screws



Flight Edging is Attached on
Each End with a Single Bolt



Flight Edging Provides
Close-Clearance in Trough



6-Inch Diameter Screws with
Flight Edging for Food Waste



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