

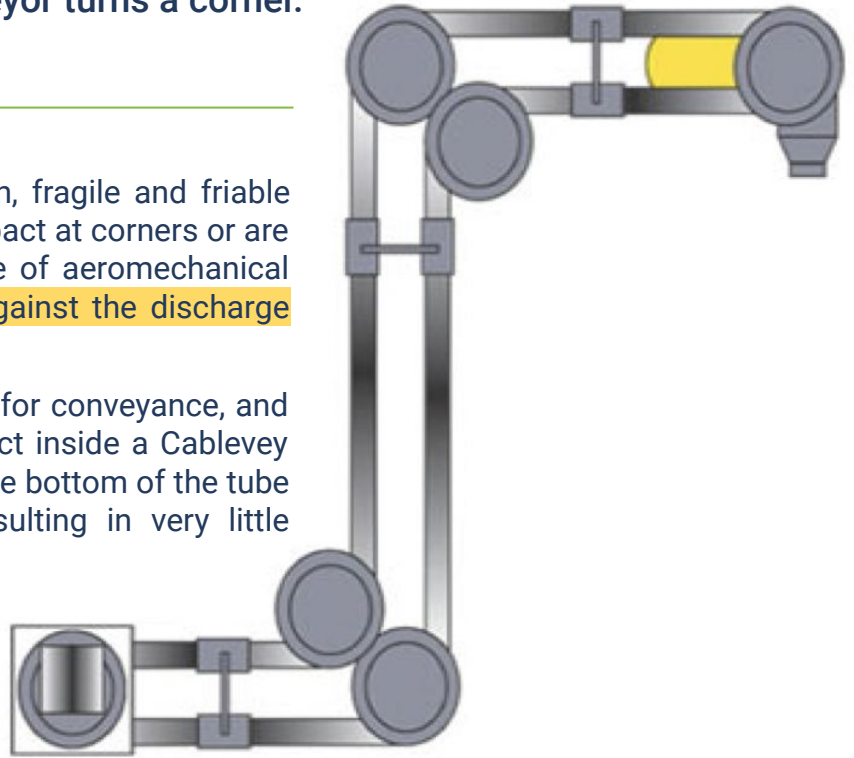
Aeromechanical Conveyors vs Cable Conveyors

Aeromechanical conveyors carry product by pulling a wire rope with discs fixed to it at high speeds in order to create a stream of air in which particles become entrained. The particles move at high speeds in a dilute fashion, rarely making contact with other particles or the side walls until the conveyor turns a corner.

Damaged Product

Because of the high-speeds of particle motion, fragile and friable materials are easily damaged as they make impact at corners or are impacted by the discs. Because the discharge of aeromechanical conveyors is centrifugal, high-speed impact against the discharge hood is nearly guaranteed.

Cablevey conveyors do not depend on air flow for conveyance, and can move at much slower speeds. The product inside a Cablevey rests against the disc and gently slides along the bottom of the tube until it falls from the discharge location resulting in very little damage.



Downtime

Hygroscopic and fine particles are application specific, so testing and other considerations must be made to prevent buildup or wear. These will cause changes to the air-flow in the conveyor and will cause performance issues. Avoiding buildup requires frequent cleaning.

Cablevey conveyors employ attachments to wipe or scrape buildup from the tube and brush or blow debris from the cable and discs during normal operation allowing for optimal system performance between thorough cleanings.

Aeromechanical conveyors have few moving parts, but the rope is the most susceptible to fatigue and wear. The rope of an aeromechanical conveyor suffers fatigue and wear just as a Cablevey does, however, the difference is in the rate of fatigue. Because the rope moves so fast, the rate at which the rope experiences bending (fatigue) and contact with the sprocket (wear) is much higher than a Cablevey.

Cleaning

To remove built-up product, many companies advise circulating an inert product through the conveyor, such as salt or broken rice. When conveying something that contains a pathogen or allergen, a wet clean is necessary.