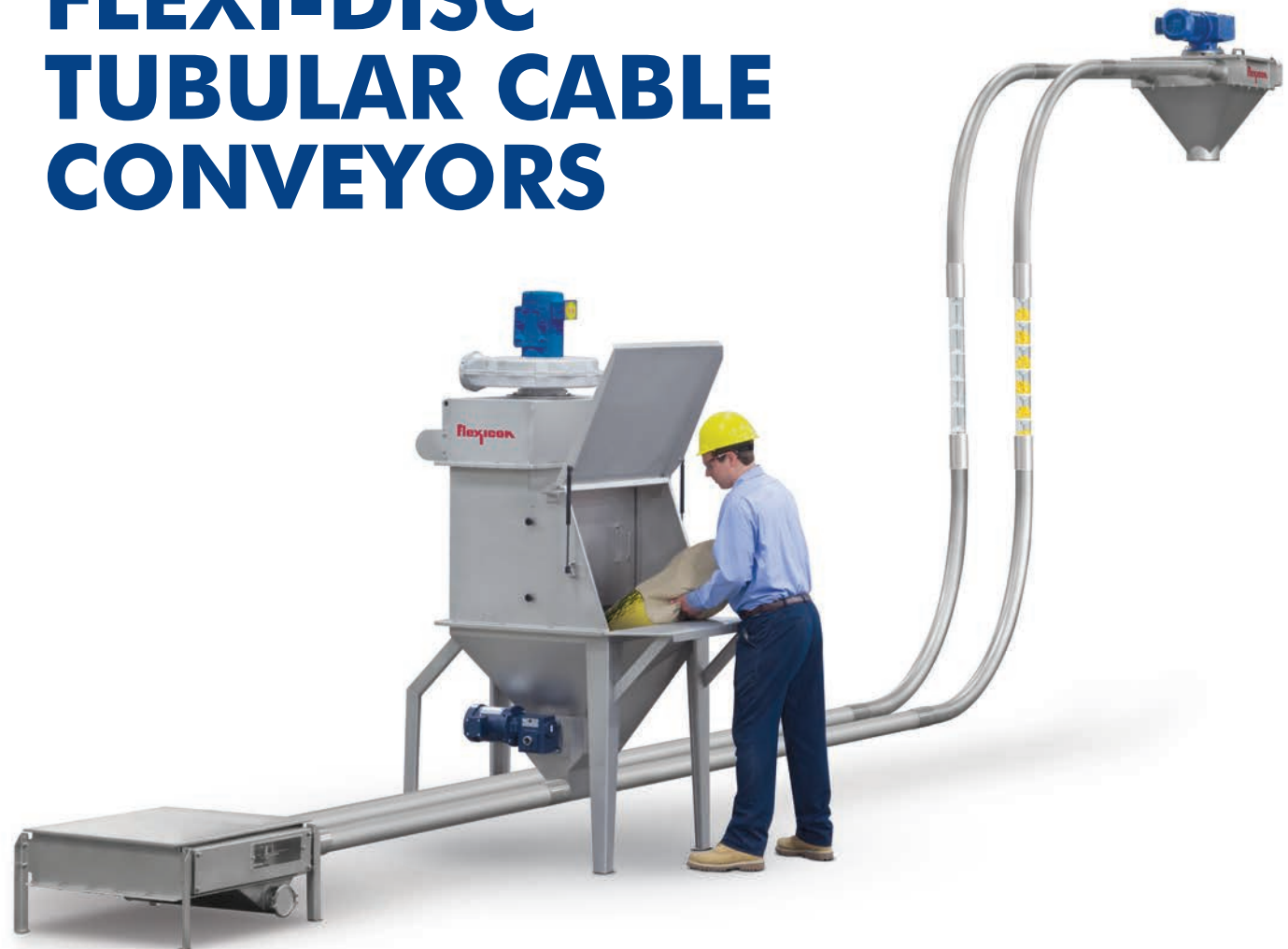




FLEXI-DISC® TUBULAR CABLE CONVEYORS



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FLEXI-DISC® Tubular Cable Conveyors

Handle friable materials gently, efficiently, dust-free

FLEXI-DISC® Tubular Cable Conveyors gently slide bulk materials through smooth stainless steel tubing using low-friction polymer discs attached to stainless steel cable. The discs and cable are driven by a wheel at one end of the circuit, and put under tension by a wheel at the other end.



Material Inlet Adapters below Drum Dumper and Bulk Bag Discharger promote controlled material flow.

Innovative Automatic Cable Tensioner (above) is more compact than conventional units, and offers simple single-point tension adjustment with convenient inspection window.

This design allows single or multiple inlets and outlets, and the routing of conveyor tubing vertically, horizontally or at any angle, through small holes in walls or ceilings.

These systems can source material from multiple plant locations, and deliver it

selectively to storage vessels, packaging machines and/or downstream process equipment. Because components are modular, inlets and outlets can be added, removed or relocated, and the circuit lengthened, shortened or re-routed as needs change.

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Available as stand-alone systems, or as engineered, fully automated systems integrated with new or existing process equipment.

Conveyor Features

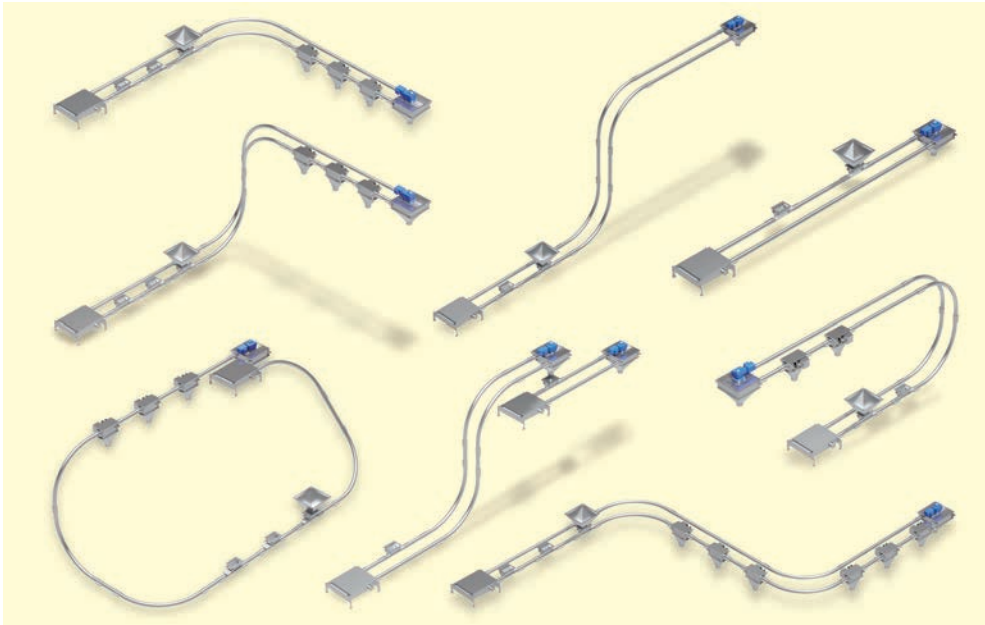
- Gentle conveying of friable materials containing particles of dissimilar sizes, shapes, and bulk densities, with no separation of blended materials
- Transfers material from single or multiple inlets to single or multiple outlets (ideal for packaging lines)
- Modular components allow changes in conveyor routing, length and the number and position of inlets and outlets
- Low power requirements per volume of material conveyed
- Air-free conveying eliminates need for blowers and filtration equipment
- Maintains temperature and moisture levels of material being conveyed
- Enclosed system contains dust, prevents contamination
- Stainless steel components finished to food, pharmaceutical or industrial standards
- Evacuates material, minimizing waste and facilitating rapid cleaning
- Available with quick-clean accessories and CIP features



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System Components



Conveyor configurations range from basic systems with one material inlet and one discharge, to systems routed in several directions over hundreds of feet/meters, with multiple material inlets and outlets as shown in the examples above.

Cable, Discs and Tubing

The FLEXI-DISC® Cable-Disc Assembly is highly engineered and thoroughly proven to simultaneously deliver unsurpassed efficiency, extreme durability and ultra-gentle product handling.

Discs are available in a range of designs and high-strength engineering polymers to suit a broad variety of materials. The discs are designed for smooth passage through bends in the tubing circuit, and with clearances to the tube wall designed to eliminate or minimize product degradation.

Low friction surfaces allow the discs to glide efficiently within the smooth stainless steel tubing, while minimizing product hang-up and allowing easy cleaning.

The FLEXI-DISC Cable is offered in stainless steel and polymer-encapsulated stainless steel.

FLEXI-DISC Straight Tubing, Elbows and Couplings are offered in 304 or 316 stainless steel finished to industrial or sanitary standards.

Clear Inspection Tubing can be located in any straight run of tubing to visually monitor conveyor performance.



Offered in 4 and 6 in. (100 and 150 mm) diameters, FLEXI-DISC Cable-Disc Assemblies are available to suit a broad range of applications.

Sanitary Systems

FLEXI-DISC Conveyors are fully enclosed, preventing contamination of the product and plant environment. At the end of a conveying cycle, the discs evacuate the conveyor tubing of material, virtually eliminating wasted product and facilitating rapid, thorough sanitizing.

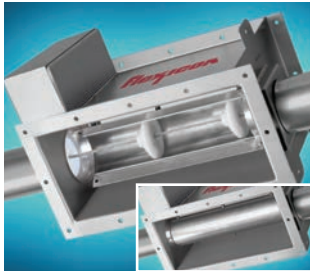
Sanitary specifications include discs of engineering polymers molded directly to polymer-coated or uncoated 304 or 316 stainless steel cable.

All tubing, material inlets, material outlets and ancillary metallic components are of 304 or 316 stainless steel with continuous welds ground and polished to food, pharmaceutical or industrial standards.

Wet or dry cleaning accessories can be quickly attached to the FLEXI-DISC cable to minimize downtime between changeovers, while Clean-In-Place (CIP) accessories allow rapid, automated and thorough sanitizing of the system.



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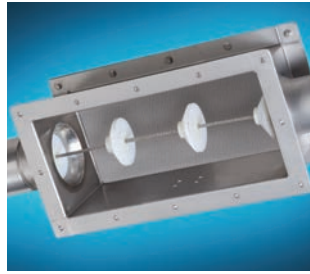


Tubular Discharge Valve in open position (top) and closed position (inset).

Inline Tubular Discharge Valves

Inline Tubular Discharge Valves enable conveyor circuits to dispense material dust-free at one or multiple locations through round spouts for connection to a flexible downspout, or flanged outlets for connection to process or packaging equipment. Tubular Discharge Valves contain a U-shaped trough rotated by a pneumatic actuator, allowing complete material discharge at a mid-point of the conveyor, or total carry-over to a downstream outlet. With the trough in the downward (open) position, material discharges fully. Rotated 180° to the upward (fully closed) position, material passes through the discharge valve.

Materials ideally suited to FLEXI-DISC® conveyors include virtually all dried beans, cereals, coffees, dried fruits, frozen vegetables, grains, nuts, pet foods, seeds, snack foods, dried spices, teas, and other fragile/friable food products. Typical non-foods include prills, pelletized products, and dried plant products such as tobacco or hemp.



Inline Full-Flow Discharge can serve as the only, or the final discharge.

Inline Full-Flow Discharges

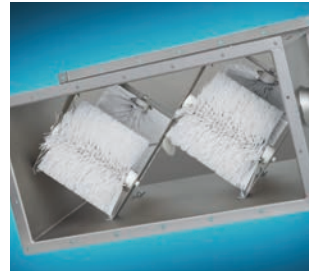
Inline Full-Flow Discharges are devoid of valves and actuators, providing an unrestricted, final discharge through a flexible downspout or a flanged outlet of process or packaging equipment. An air knife can be employed in Inline Full-Flow Discharges to dislodge material from the cable and discs.



Automatic Cable Tensioner keeps cable and disc assembly taut.

Automatic Cable Tensioner

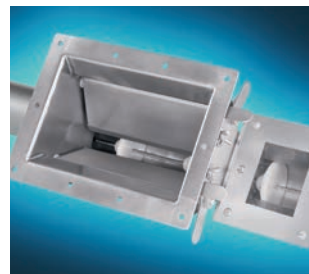
The Automatic Cable Tensioner contains a wheel that reverses the direction of the cable while keeping it taut throughout the conveyor circuit. This ultra-compact, simplified design is smaller than conventional units, and allows easy viewing of the Tension Inspection Window.



Brush Box dislodges residual material from cable and discs automatically.

Brush Box

Brush Boxes contain one or two (shown) pairs of cylindrical brushes that converge at the centerline of the cable. Discs pass through the brush box and deflect the stiff bristles, dislodging any residual material adhered to the cable and disc assembly.



Metered (above) and Non-Metered (right) Inlet Adapters are offered with universal flanged inlets for connection to flanged outlets (or downspouts) of bag dump stations, bulk bag dischargers, silos or other material sources.

Metered Inlet Adapter

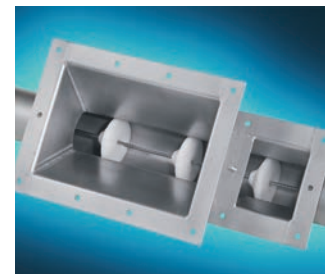
The Metered Inlet Adapter is equipped with dual adjustable metering gates that are infinitely adjustable from fully-opened to fully-closed using external locking levers, controlling the rate at which material enters the conveyor tube. The target fill rate of the conveyor can additionally be controlled by increasing or decreasing the speed of the cable and disc assembly.



Drive System shown with optional discharge cone.

Drive System

The Drive System rotates a drive wheel which changes the cable's direction of travel by 180° and circulates the cable and discs at relatively slow speed through the circuit. With optional discharge cone (shown) it can also serve as the only discharge point, or as the final discharge.



Non-Metered Inlet Adapter

Non-metered Inlet Adapters are employed where incoming material is fed by an upstream process at rates appropriate for the size and speed of the FLEXI-DISC conveyor.



Broad Range of Bulk Handling Equipment and Systems



FLEXICON® Flexible Screw Conveyors transport free- and non-free-flowing bulk solid materials from large pellets to sub-micron powders, including products that pack, cake or smear, with no separation of blends.



FLEXI-DISC® Tubular Cable Conveyors gently slide friable bulk material through smooth stainless tubing at any angle to single/multiple points.



PNEUMATI-CON® Pneumatic Conveying Systems move a broad range of bulk materials over short or long distances, between single or multiple inlet and discharge points in low to high capacities.



SWING-DOWN®, REAR-POST and TWIN-CENTERPOST™ Bulk Bag Fillers can fill one bulk bag per week or 20 per hour at the lowest cost per bag. Numerous performance options.



BLOCK-BUSTER® Bulk Bag Conditioners loosen solidified material. Variable height turntable positions bag for conditioning on all sides at all heights.



BULK-OUT® Bulk Bag Dischargers unload free- and non-free-flowing solids from bulk bags automatically. Allows untying, discharging, retying and collapsing.



FLEXICON® Manual Dumping Stations allow dust-free dumping of bulk material from bags and other containers. Automatic filter cleaning allows continuous, efficient operation.



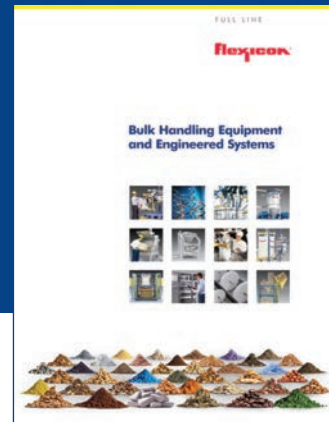
TIP-TITE® Container Dumpers empty bulk material from drums into vessels up to 10 ft (3 m) high. Dust-tight (shown) or open chute models.



FLEXICON® Weigh Batching Systems weigh and blend bulk ingredients automatically. Gain-in-weight (shown) and loss-of-weight systems available.

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Flexicon products are manufactured on four continents, and marketed through an extensive sales network throughout Europe, Australia, Southeast Asia, Africa and North/Central/South America.

HH-0728D

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