

Compact Incline/Decline
Applications

High Speed Performance
- Up to 52 mpm (171 fpm)

Accumulation
and Buffering

Ideal for Small
Package Handling



FlexMove[®]

HELIX CONVEYORS

Compact Spiral Flexible Chain Conveyors

DORNER[®]
By Columbus McKinnon

FlexMove® Helix Conveyors are best for:

- Vertical Incline and Decline
- Small Product Handling
- Accumulation
- Buffering
- Cooling Between Processes
- And More!

Sizes & Measurements

- Widths: 85 mm, 180 mm, and 260 mm (3 in, 7 in and 10 in)
- Minimum infeed height: 600 mm (23.6 in)
- Maximum outfeed height: 3200 mm (126 in)

Chain Specifications

- Material: Acetal
- Patented design with low friction sealed ball bearings to reduce friction
- Types:
 - Flat top chain for product movement or accumulation up to 7°
 - TPE friction top chain for product incline up to 10°



Flat Top Chain & TPE Friction Top Chain

Tiers

- Maximum number of tiers: 4
- Maximum distance between tiers: 762 mm (30 in)
- Maximum angle: 10 degrees (9 degrees for 1000 mm)
- Diameter of spiral:
 - 1000 mm (39.4 in) at centerline (85 on 180 mm only)
 - 1400 mm (55.1 in) at centerline

Transfers

- Infeed/Exit Length: 915 mm (36 in) to 2000 mm (78.7 in)



Roller Transfer



Powered Transfer



Driven Bridge Transfer

Loads & Speeds

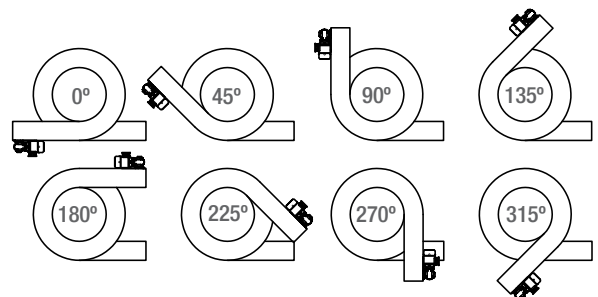
- Loads: 136 kg (300 lbs)
- Speeds: Up to 52 mpm (171 fpm)



1000 mm
Radius Option



Angles



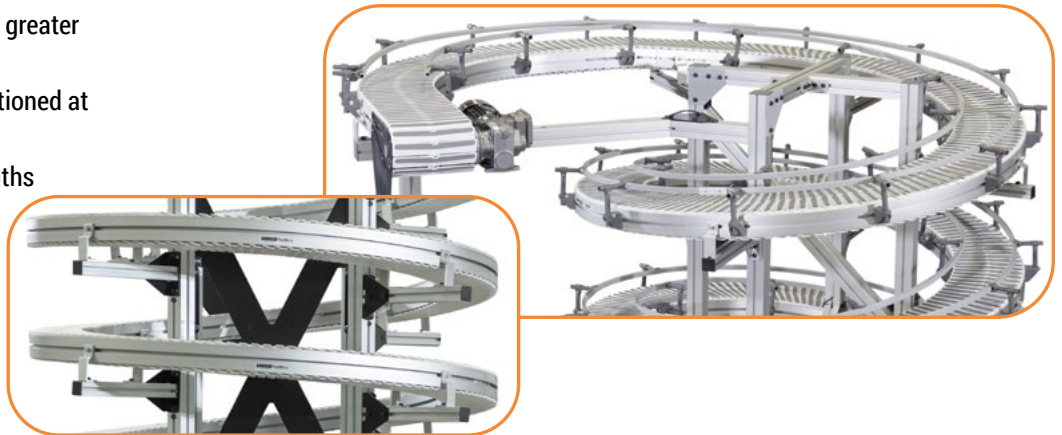
Guiding

- 30 mm (1.2 in) Aluminum High Side
- 70 mm (2.8 in) Aluminum High Side
- Fully Adjustable UHMW Guide
- Tool-less Fully Adjustable UHMW Guide
- Adjustable Outboard Guiding



Flexibility

- Unique, flexible design provides greater flexibility in layout
- Infeed and outfeed may be positioned at any height or angle
- Custom infeed and outfeed lengths allow the conveyor to extend beyond spiral, reducing the number of conveyors required
- Small footprint maximizes valuable floor space



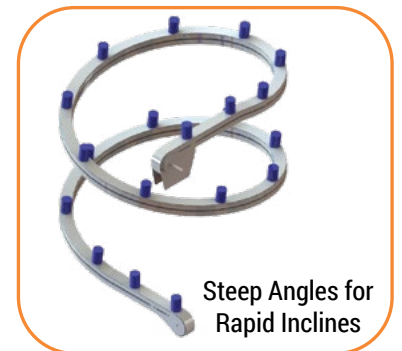
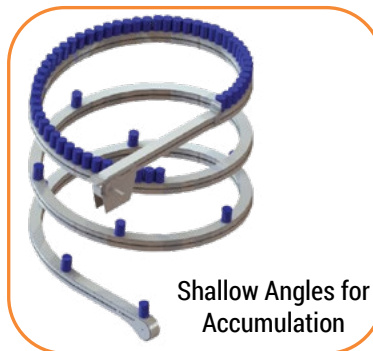
Patented Chain Design



- Patented side bearing chain reduces corner friction
- Innovative design allows for higher loads, faster speeds and smooth product handling

Build to Order Incline/Decline Angles

- Manufactured at exact angle for each application
- Incline options from 4 to 10 degrees
- Incline angles between 4 and 7 degrees provide accumulation capability



The Benefits of a Dorner FlexMove Helix Conveyor

Reduces Costs

- Available pre-assembled to your exact specifications; saving labor and set-up costs
- Simple conveyor based spiral uses the same service parts as all FlexMove products
- Industry leading product transfers eliminate costly product jams, bottlenecks, and damage

Saves Time

- Dorner's online configurator engineers simple or complex conveyors to meet your needs in minutes
- The industry leading tool delivers a complete 3D CAD assembly model for instant validation of fit

Delivers Fast

- Dorner sets the industry standard for delivery
- FlexMove Helix is shattering the norm with conveyors available to ship in as little as 30 working days



Industrial



Flexible Chain



Pallet Systems



Sanitary Stainless Steel



Engineered Solutions Group

Custom engineered solutions for almost any application.



CAD Configurator Tool

Industry leading tool! Configure your own custom conveyor in minutes.

TRANSFORMING CONVEYOR AUTOMATION

Contact Dorner

United States
+1-262-367-7600

Canada
+1-289-208-7306

Mexico
+52.33.30037400

Germany
+49 (0) 2461/93767-0

France
+33 (0)1 84 73 24 27

Malaysia
+604-626-2948



By Columbus McKinnon

DORNERCONVEYORS.COM



CONVEYANCE SOLUTIONS

© Dorner Mfg. Corp. 2024. All Rights Reserved.

851-841 0824