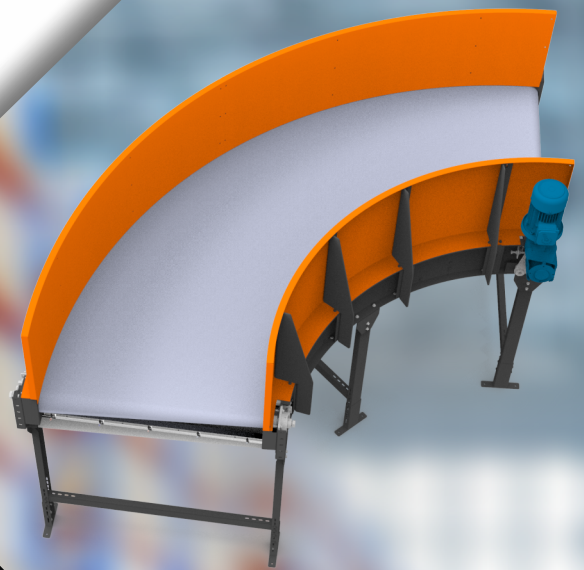




PVC CURVE BELT CONVEYOR



"Your Journey, Our Conveyors, One Success Story"

2025
Vol .- 1.1



MT-MKT-CV-06, V1.1

ABOUT US

Muvro Technologies is a leading supplier of innovative intralogistics and material handling solutions. Most of the technologies we use in our solutions are fully designed, developed, manufactured in its world class factory and installed & serviced by our teams only.

This gives us competitive advantage, quick delivery and a long-lasting solution to our customers. We believe in flexibility and modularity which reflect in our solutions.

We are also fortunate to have great customers who return to us for innovations to enhance their production processes. We never take this for granted and work hard to keep all customers happy. We know that keeping them happy is extremely important, so our goal is to deliver systems and service reliably and consistently.

Muvro Technologies has array of solutions :-High Speed Cross Belt Sorters, ASRS Shuttle Systems, Mobile Robots, High Speed Shoe Sorter, Pick to Light, Tote Sorting, Sorting Centre, Micro Fulfillment Centre, Fulfillment centre, Goods to person, Software Solutions , Dimensioning Weighing & Scanning.

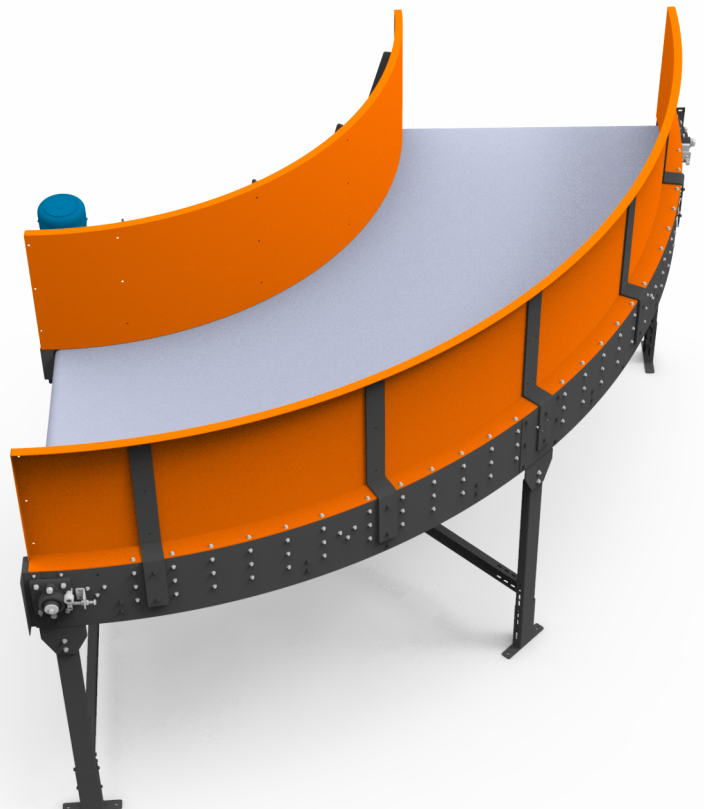
PRODUCT DESCRIPTION

PVC Curve belt conveyors are designed for various applications:

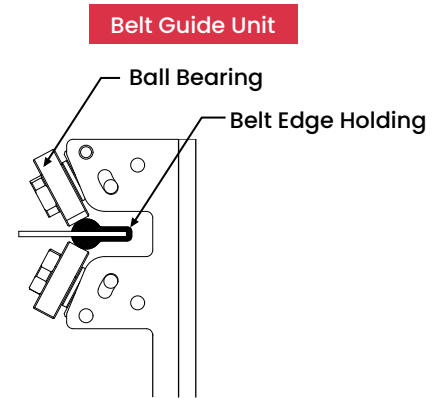
- Warehousing & Distribution
- Package & Parcel handling
- Baggage Handling
- Industrial & Manufacturing
- Product Assembly

TECHNICAL DESCRIPTION

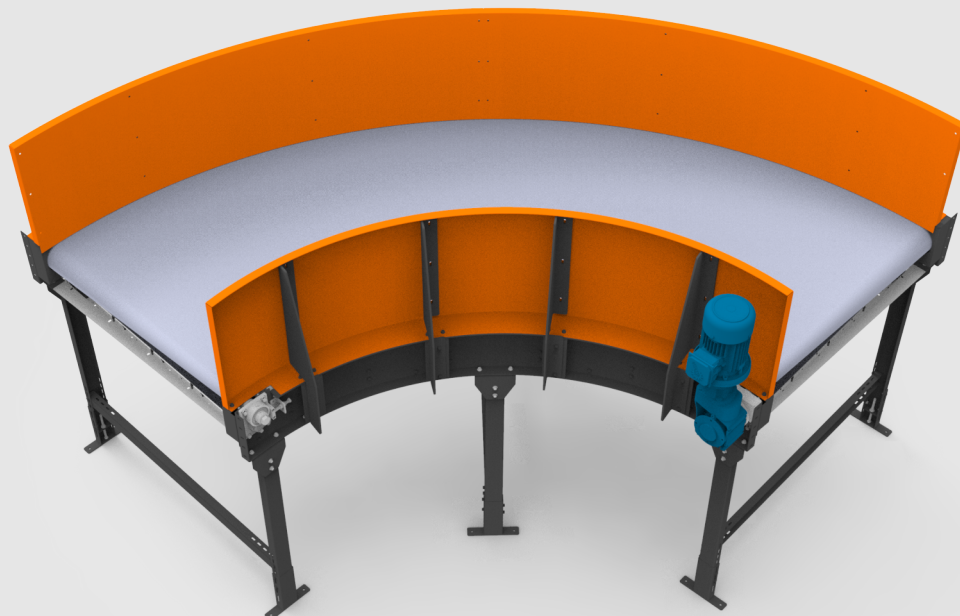
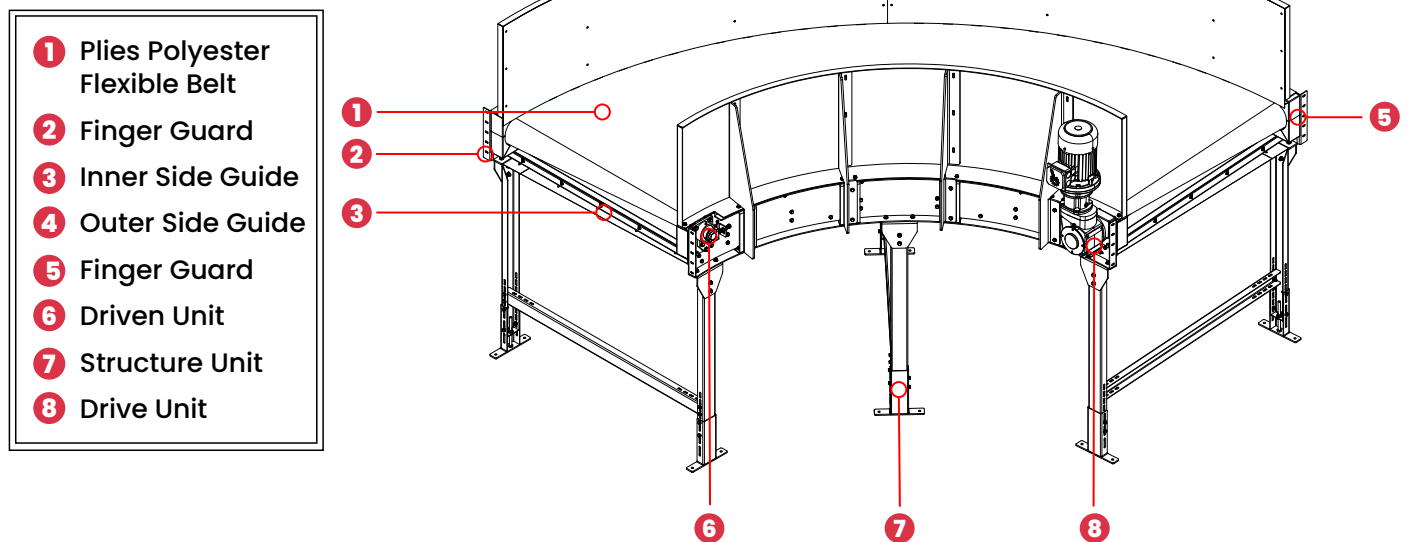
The basic design Principle of this curve belt conveyor is a conically cut belt which is levelled and driven by means of conical pulleys with a angle of wrap of approx. 180 degree Due to geometry of this arrangement forces occur dragging the belt in the direction of the center point of the circle. These forces are taken on by a combination of ball bearing in special holding devices and a belt edge sewn on to the belt.



The drive pulley of the conveyor is Coated and transmits the driving power over its whole length due to friction. The required belt tension for a safe running cycle is ensured by adjustments of tail- and drive pulley outside the bearing blocks. Ideally, the required torque is applied via a shaft-mounted gear motor on the outer radius. Transfer drive solutions via chain and tooth belts and drives positioned on the inside radius are also possible.



This drive concept as well as the solution to take on forces via ball bearings and belt edge form the constructive basis and guarantee a calm, quiet and safe running cycle of the conveyor even at high speeds.



STANDARD SPECIFICATION

Drive system:

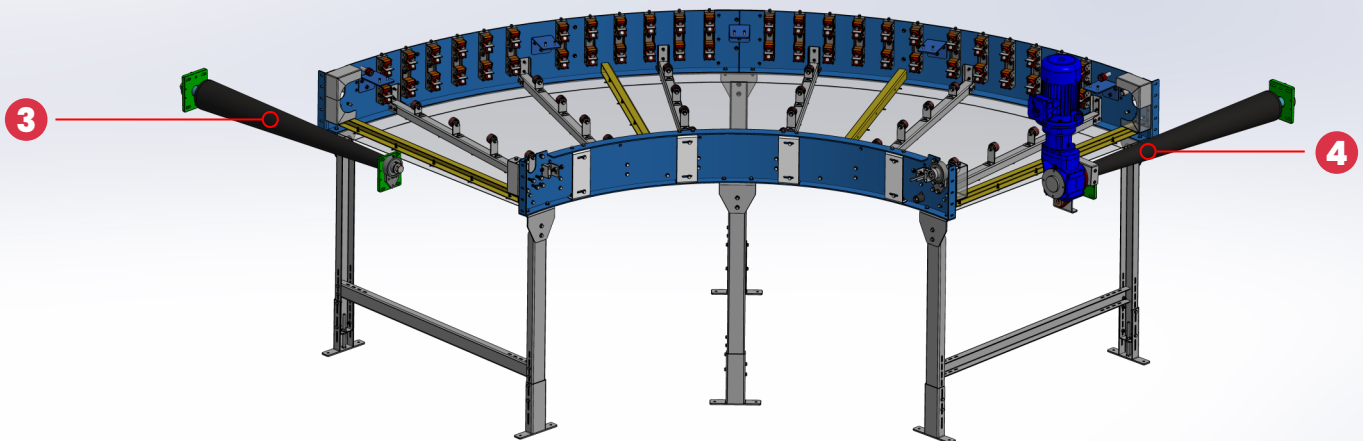
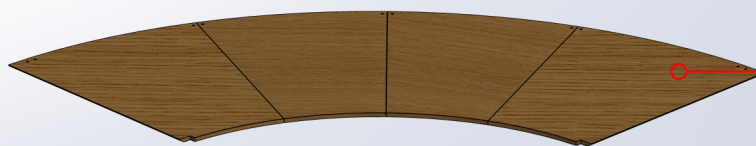
1. Shaft mounted gear motor with torque arm arrangement
2. Drive pulley will be conical type ,rubber coated.

Frame construction:

1. Mild steel structure (3mm thick sheet), power coated.
2. All rotating parts will be cover.
3. Removable inside and outside guide.
4. Low friction slider bed .
5. End less belt- 2 plies polyester flexible belt.
6. Safety guards as per standard.
7. Bottom guard of sheet metal

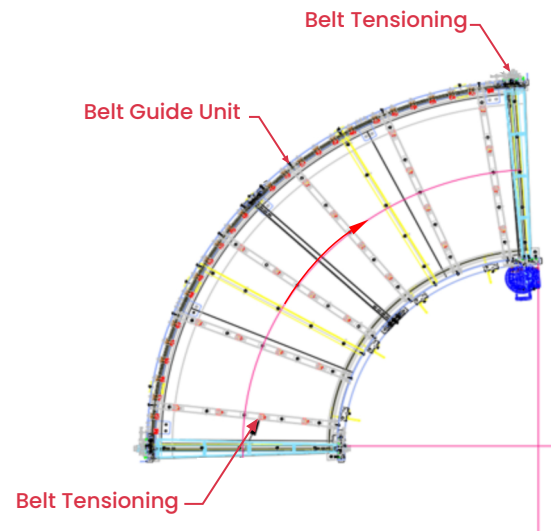
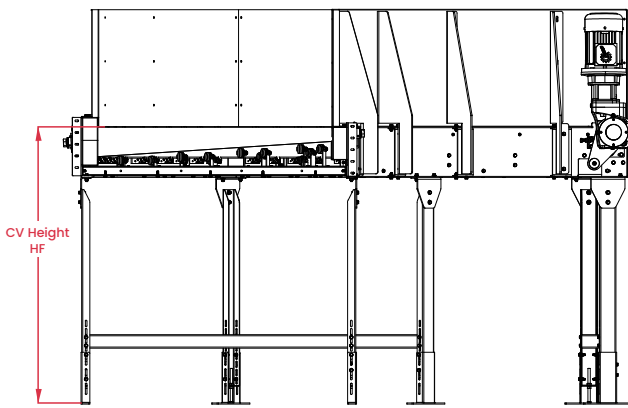
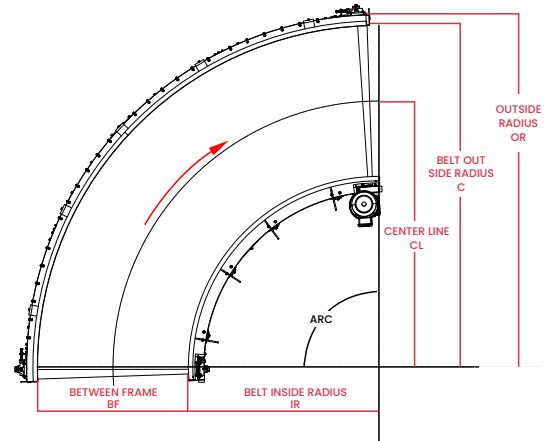


- 1 Plies Polyester Flexible Belt
- 2 Low Friction Side Bed
- 3 Driven Unit
- 4 Drive Unit



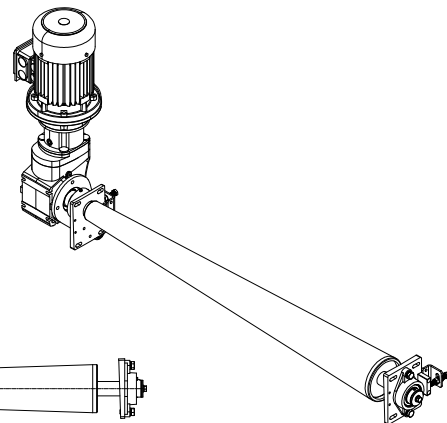
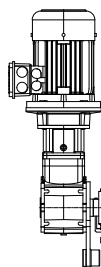
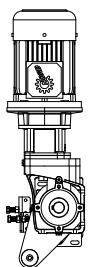
DIMENSIONAL PARAMETERS

- Belt inside radius IR - 39"
- Between frame BF - 48"
- Center line radius CL - 67.5"
- Belt out side radius C - 87"
- Top of belt height HF - 48"
- Side guide Height - 3" (as per requirement)
- Speed of Conveyor - 150 to 225 Fpm
- Curve angle Arc - 90 Degree



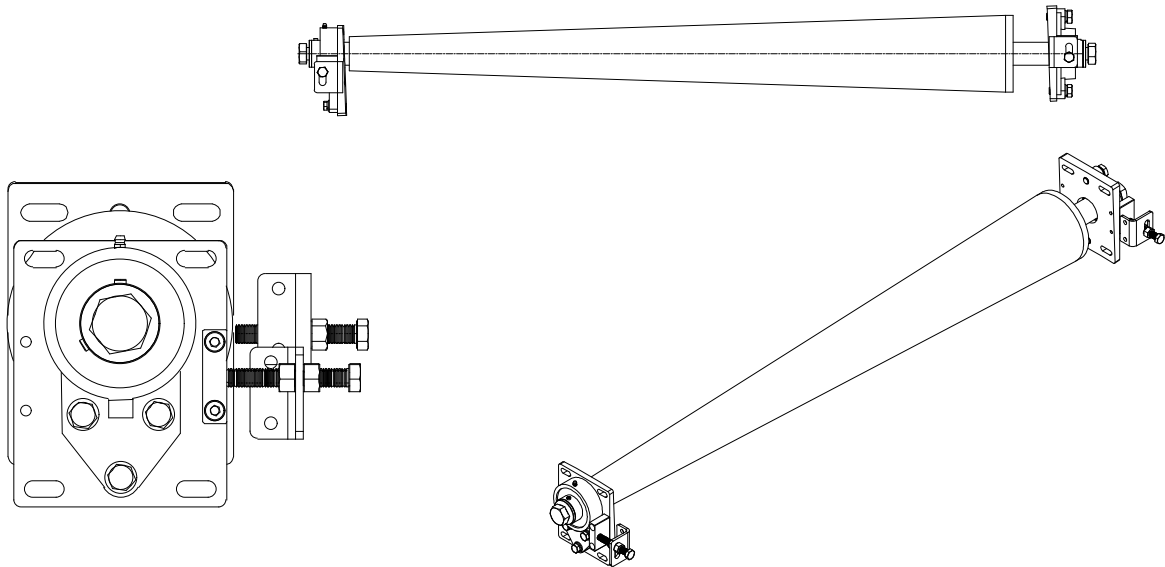
DESCRIPTION OF DRIVE PULLY

- Conical type drive pulley with rubber coated.
- Shaft mounted gear motor with torque arm arrangement
- Drive pulley will be mount on frame with the help of Self aligning bearing units.



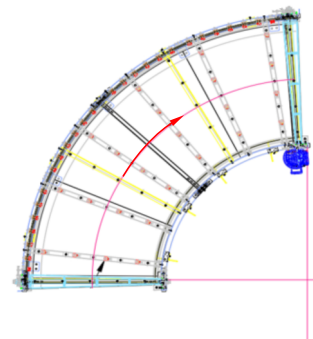
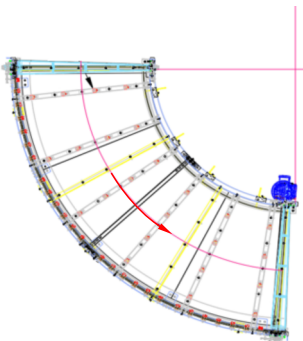
DESCRIPTION OF DRIVE PULLEY

- Conical type driven pulley with rubber coated.
- Driven pulley mounted with take up arrangement.
- Driven pulley will mount on frame with the help of Self aligning bearing units.



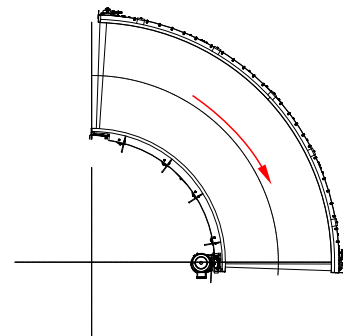
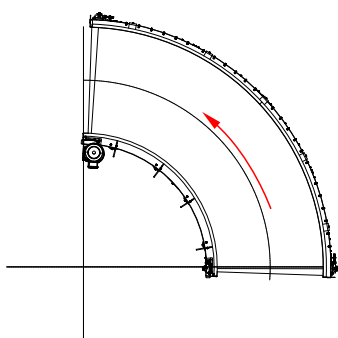
DESCRIPTION OF FLOW AND DRIVE POSITION

- CW Clockwise , RH Right hand, IR Inner radius

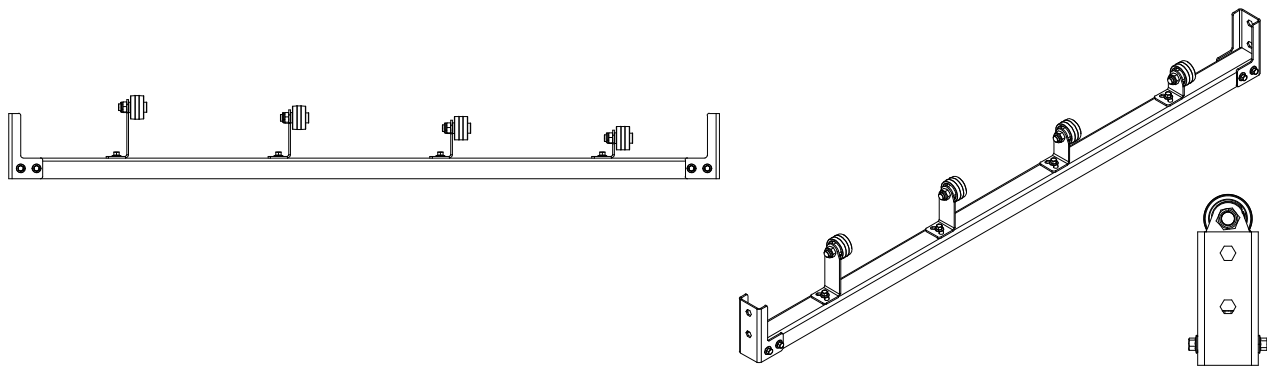
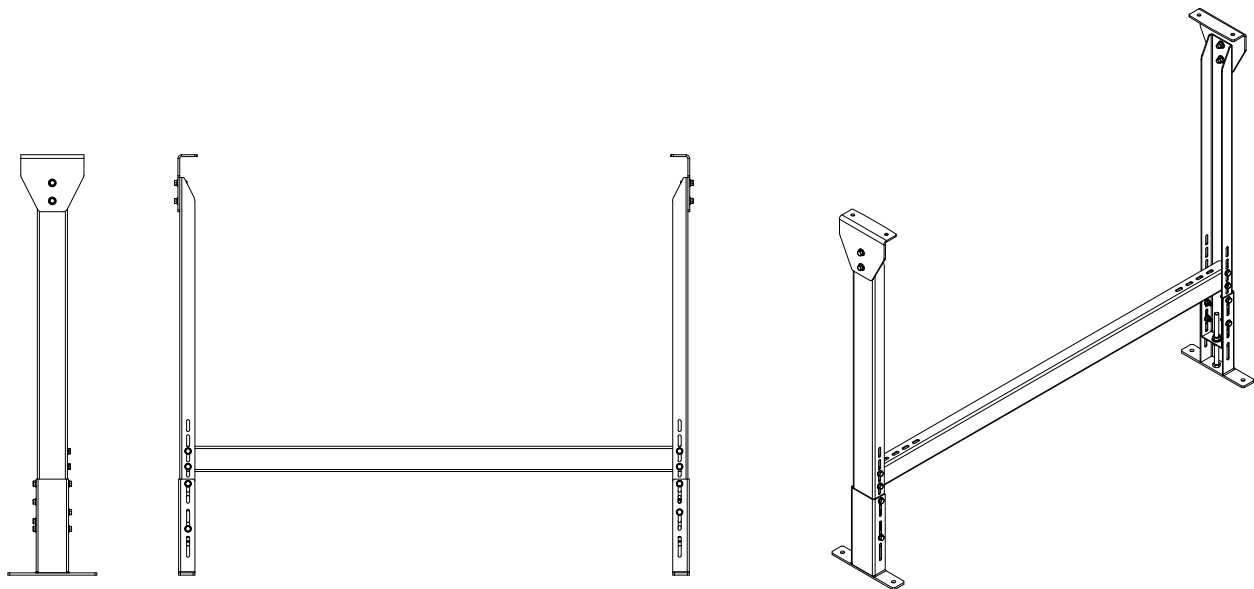


- ACW Clockwise , RH Right hand, IR Inner radius

- CW Clockwise , RH Right hand, IR Inner radius



- ACW Clockwise , RH Right hand, IR Inner radius

BELT RETURN GUIDE UNIT**CONVEYOR SUPPORT STRUCTURE****TECHNICAL SPECIFICATION**

Model No.	MT016-01
Load Capacity	10 - 275 Pounds
Speed	10-90 MPH
Heights	17 - 198 In
Applications	Package & Parcels, Bagging, Packaging, Automobile, Food Processing
Configuration	Customizable
Drive System	Direct Drive / Chain Drive
Turn Angle	22.5°, 45°, 60°, 75°, 90°, 180°
Direction	Clockwise, Anti-Clockwise, Bi-Directional
Inner Radius	See Table 31 in, 39 in, 47 in
Side Guide	100, 200, 300, 400, 600

“ **WHY MUVRO** ”

Since 2002, with our inception, we have been providing global end to end solutions and service expertise to and for Robotics and Automation business needs in India and abroad.

We have been supporting organizations to realize their “Digital Transformation” vision with clear outcomes.

Moving with a clear focus, towards in becoming the Multinational Worldwide Solution Provider in area of Robotics & Intralogistics Automation systems. We are proud to present our newest foray into the logistics & supply chain solution sector ZedSort, a high speed cross belt loop sorter.



Space Saver



Low Noise



Cost Effective



High
Performance



Easy
Installation

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