Modular Conveyor EXPRESS

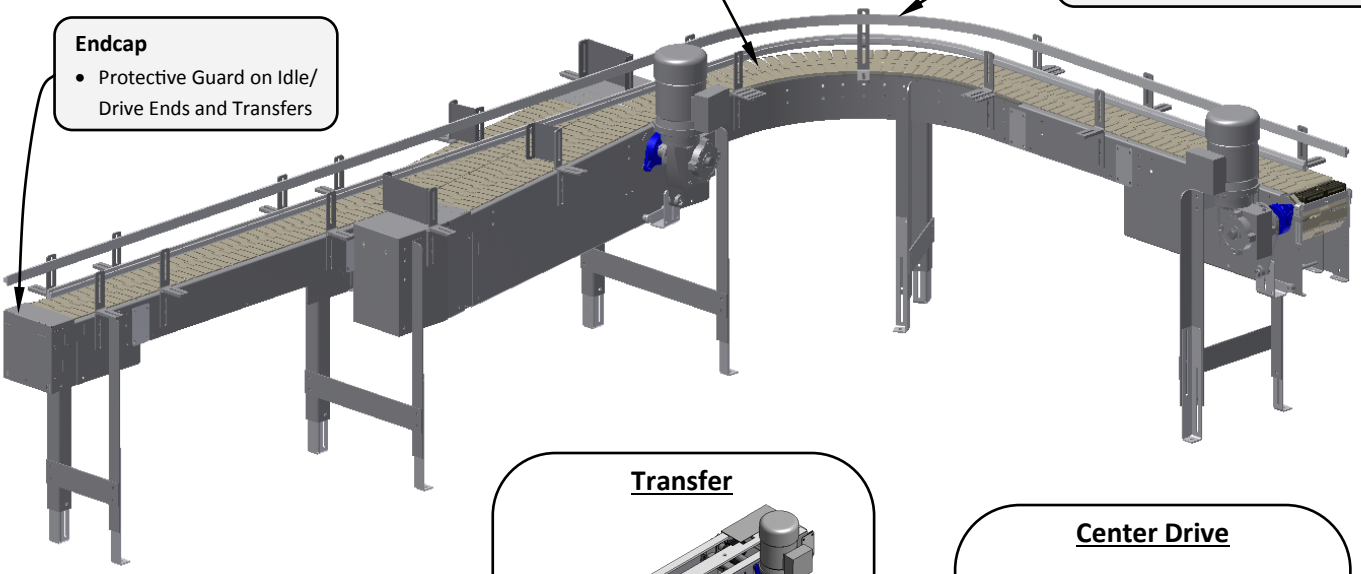
Tabletop 7.5”, 4.5”, & 3.25”

PO Box 2288 | Oshkosh, WI 54902 PH: 920.379.1772 | www.modularconveyor.com

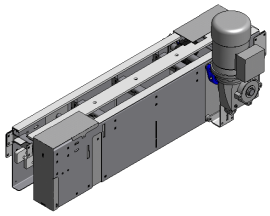
Chain
- 7.5” 882 Tab
- 4.5“ 879 Tab
- 3.25” 879/880 Tab

Guide Rail
- Adjustable “L” Shaped Brackets
- Various Guide Rail Types

Endcap
- Protective Guard on Idle/ Drive Ends and Transfers



Transfer

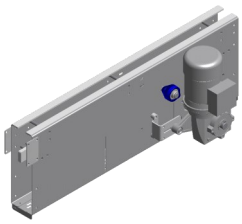


- 48” Overall Length (60” for 7.5” TT)
- 12” Deep Frame
- UHMW Wearstrip
- Endcap/Finger Guard
- Contained Catenary
- 2-hole, 1 1/4” Bore Bearing
- SS Bearing in Hub of Idle Sprocket
- Available in Parallel & Inline

Turn

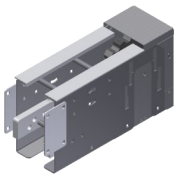
- Available in 30°, 45°, & 90°
- 5 1/2” Deep Frame
- UHMW Wearstrip
- Duravar Wearstrip (Inside of Turn)
- 6” Long Tangents
- Disc Turns
  - Available in 4.5” & 3.25”

Center Drive



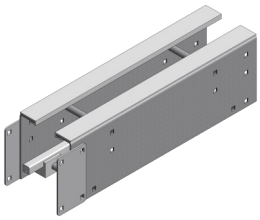
- 48” Overall Length
- 16” Deep Frame
- UHMW Wearstrip
- 2-hole, 1 1/4” Bore Bearing
- Available 24” Long Extension Allows Conveyor to be Bi-Directional

Idle Ends



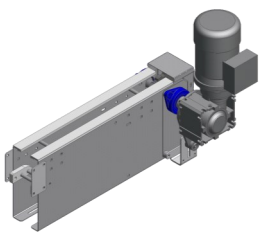
- 15” Overall Length
- 8” Deep Frame
- UHMW Wearstrip
- Endcap/Finger Guard
- SS Bearing in Hub of Sprocket

Intermediate



- Standard Lengths in 120,” 92,” 64,” 36”, 18”
- Also Available 6”-33 ½” (1/2” Increments)
- 5 1/2" Deep Frame
- UHMW Wearstrip
- Tab Return
- Adjustable Cope for Elevation Changes
  - ♦ Single Cope for Changes < 15°
  - ♦ Double Cope for Between 15° & 30°

Drive End



- 30” Overall Length
- 12” Deep Frame
- UHMW Wearstrip
- Endcap/Finger Guard
- Contained Catenary
- 2-hole, 1 1/4” Bore Bearing

Modular Conveyor EXPRESS

Standard Conveyor Specifications
(Tabletop 7.5”, 4.5”, & 3.25”)

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Standard Modules
- Idle Ends; Drive Ends; Center Drives; Standard Turns; Disc Turns; Intermediates; Parallel & Inline Transfers; Copes (Adjustable Vertical Turns)

Frame Design & Material
- Open Top Design
- 12-Gauge, Mild Steel, “Stardust Silver” Powder Coat Paint
- 12-Gauge Stainless Steel, #4 Polish Finish

Wearstrips — Carryway
- Straights: 1/8” Thick UHMW
- Turns: UHMW Outside, Duravar Inside < 200 FPM

Wearstrip — Return
- UHMW Slider on Tab in Straights

Motor/Reducer - Dry Environment
- Nord “C” Face Motor, Inverter-Duty, IP55
- Voltage: 230/460-3-60 AC
- Nord Hollow Bore Reducer
- Corrosion Resistant Aluminum
- Vertical Shaft Mount w/ Torque Arm

Options:
- Below Mount
- Washdown

Conveyor Speeds
- Standard Nominal Speeds (FPM):
  - 40, 60, 100, 125, 165, 250, 330
- Minimum: 30 FPM* Maximum: 385 FPM*

*Speed obtained using a VFD

Supports
- “H” Style Formed 2” x 2” Angle w/ Bolt Pad Base
- ±4” Elevation Change
- Nominal Elev. Range 24”, 28”, 32”, 36”, 40”, 44”, 48”

Options:
- Compatible w/ most Support Styles, but Not Limited to:
- Pedestal, El. Range 30”, 42” (±3”)
- Ceiling Hanger Brackets

Bearings
- Drive Ends: 2-Hole Flange, Painted, Sealed for Life, General Purpose Lube, Steel Insert w/ Set-Screw
- Idle Ends: Stainless Steel Bearing in Hub of Sprocket

Options:
- Polymer Housing, Food Grade Lube
- Zinc Plated or Stainless Steel Inserts
- Safety Covers

Shafts
- Idle Shaft Dia. 1.0”
- Drive Shaft Dia. 1.25”

Tabletop Chains & Sprockets
- See Data Sheet

Guide Rail & Brackets
- See Data Sheet

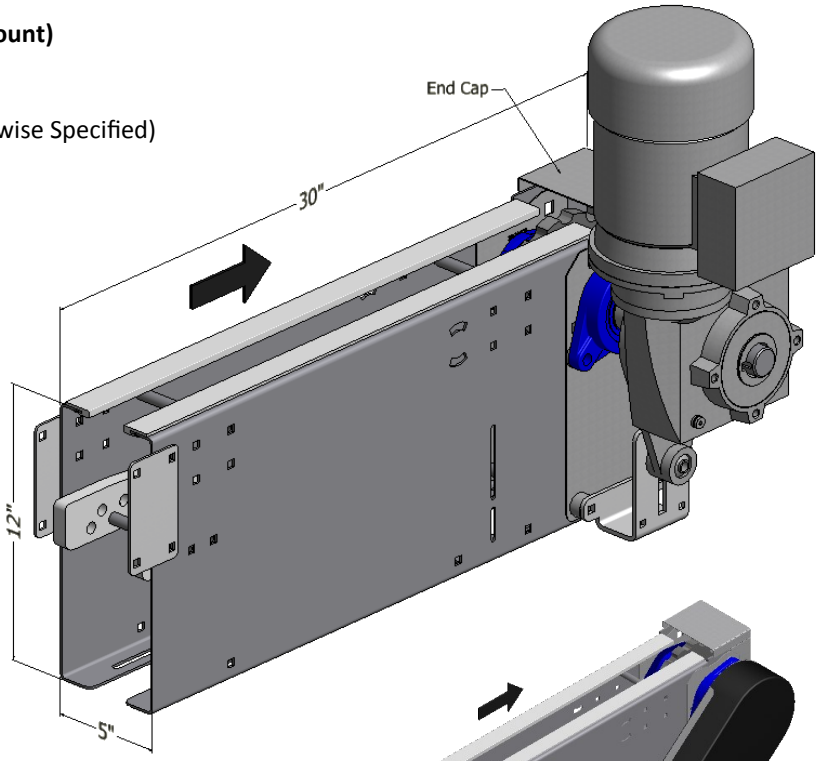
Conveyor Accessories
- LBP Roller Transfer, SS Deadplate

Options:
- Drip Pans, Tent Covers

Note: The following technical pages are shown with 4.5” wide chain. The standard construction and availability remains the same for 7.5” & 3.25” wide chain unless otherwise specified.

Drive End

Standard Configuration Shown (Right-Hand Shaft Mount)

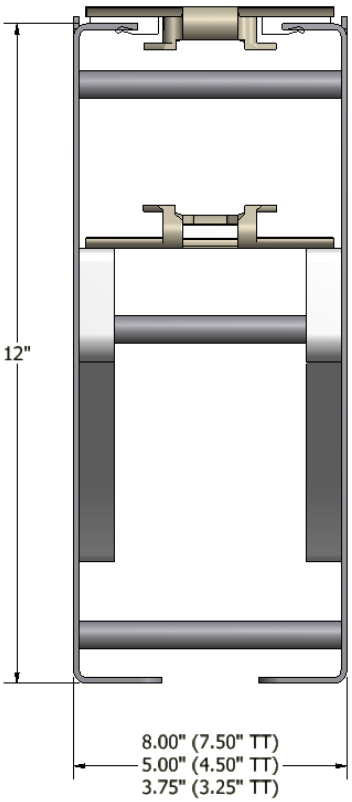


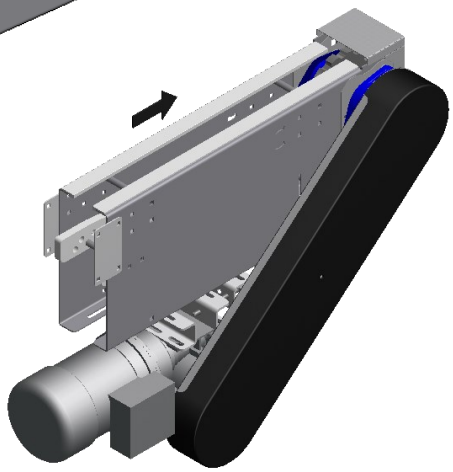
Specifications:

- Standard Drive Will be Right-Hand (Unless Otherwise Specified)
- Shaft Mount Includes Torque Arm
- See Spec Sheet for Standard Speeds (FPM)
- End Cap (Finger Guard) Included
- Support Incline Range ±22°

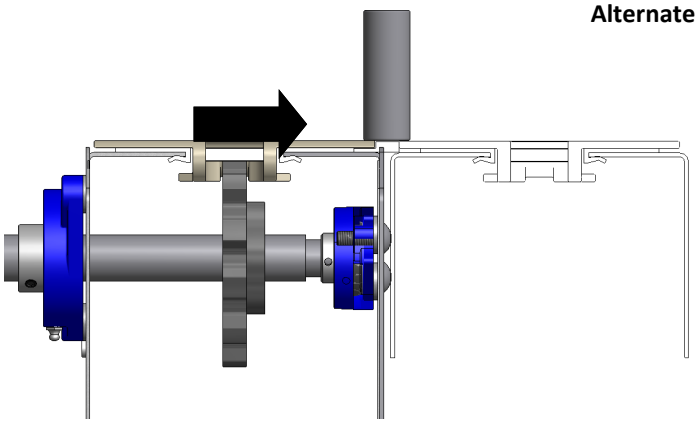
Other Available Configurations:

- Left-Hand Shaft Mount
- Right- or Left-Hand Below Mount
  - (See Alternate Configuration)

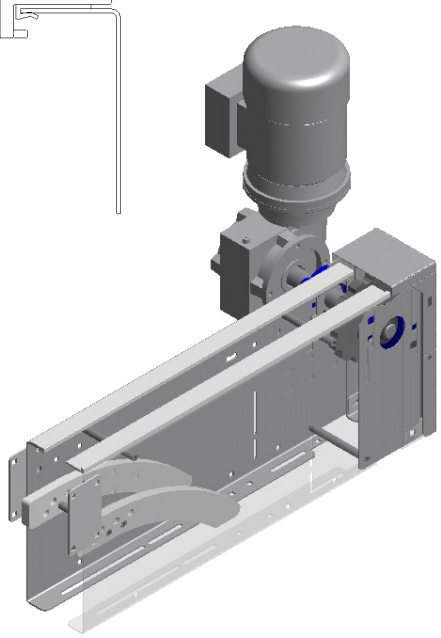




Alternate Below Mount Configuration



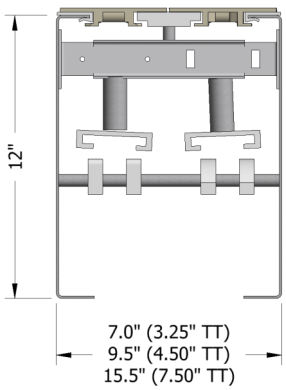
0750-2 Shown

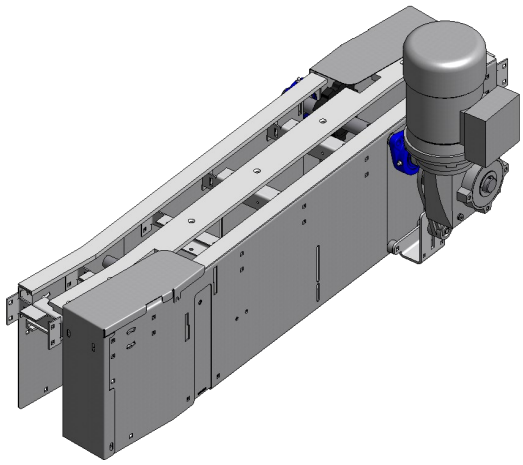


Drive End Side Transfer Specifications:

- Left-hand & right-hand side transfer designs available
- Bearing installed on inside of frame on transfer side
- Fasteners will be carriage bolts on transfer side
- Deadplate wearstrip included to fill the gap (11/16”) between chains (field trim to fit)
- Minimum typical product size to self clear transfer is 1.5”
  - Product stability through transfer is affected by height & base contour

Transfers





Inline Transfer Specifications:

Standard Configuration Shown
(Right-Hand Shaft Mount)

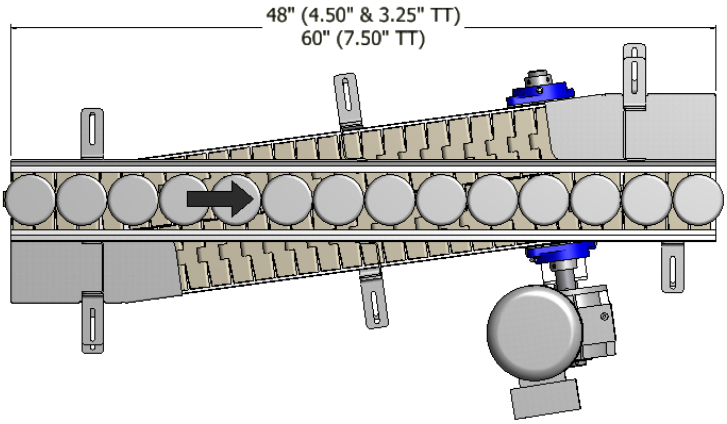
- 48” Long Section (4.5” & 3.25” Wide Chains)
- 60” Long Section (7.5” Wide Chain)
- Bearing: SS in hub of idle sprocket

Other Available Configurations:

- Right-Hand Below Mount

Advantages:

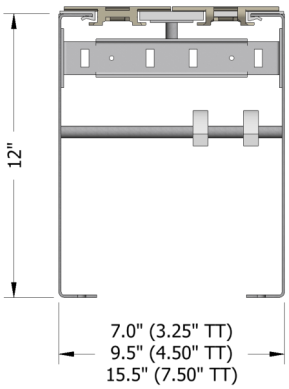
- Product travels in a straight line
- Used when product stability is critical
- Provides smooth transfer
- Best transfer when using tent covers

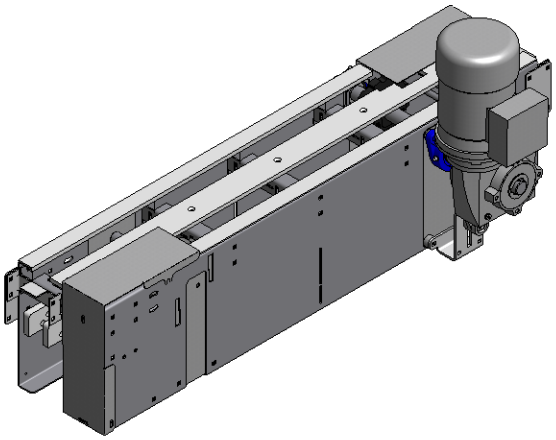


Parallel Transfer Specifications:

Standard Configuration Shown
(Left-to-Right, Right-Hand Shaft Mount)

- 48” Long Section (4.5” & 3.25” Wide Chains)
- 60” Long Section (7.5” Wide Chain)
- Bearing: SS in hub of idle sprocket



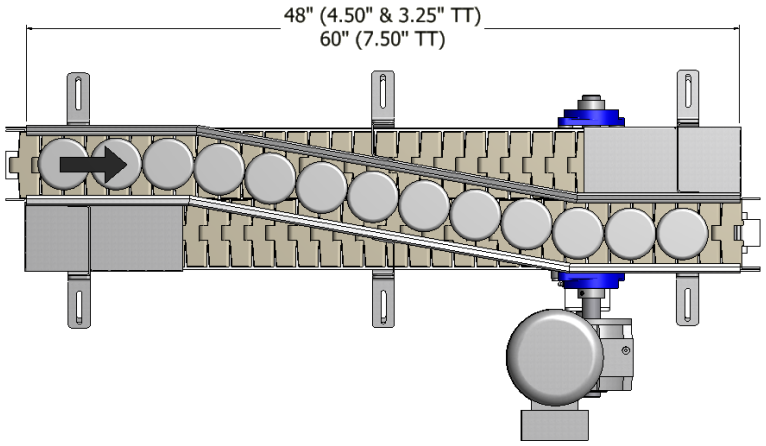


Other Available Configurations:

- Parallel Transfer: Right-to-Left RH
- Right-Hand Below Mount

Advantages:

- Used when product stability is not critical
- Helps reduce back pressure when accumulating



Additional Specifications (Parallel & Inline):

- Shaft Mount Will Include Torque Arm
- End Caps (Finger Guards) Included
- Standard Drive Will be RH (Unless Otherwise Specified)
- Support Incline Range ±22°
- See Spec Sheet for Standard Speeds (FPM)

Idle End

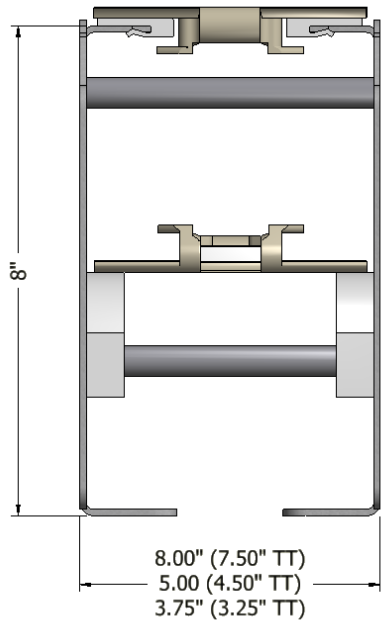
Standard Configuration Shown On Right

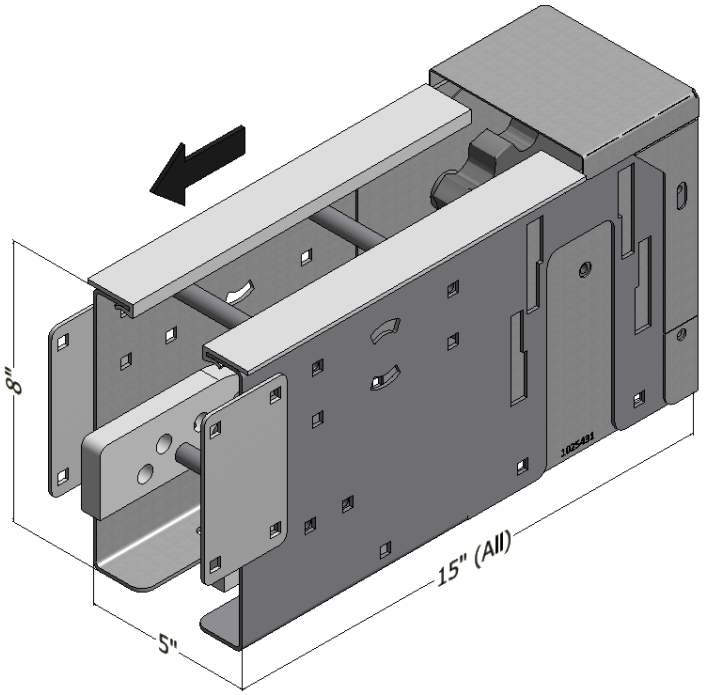
Specifications:

- End Cap (Finger Guard) Included
- Support Incline Range ±22°

Other Available Configurations:

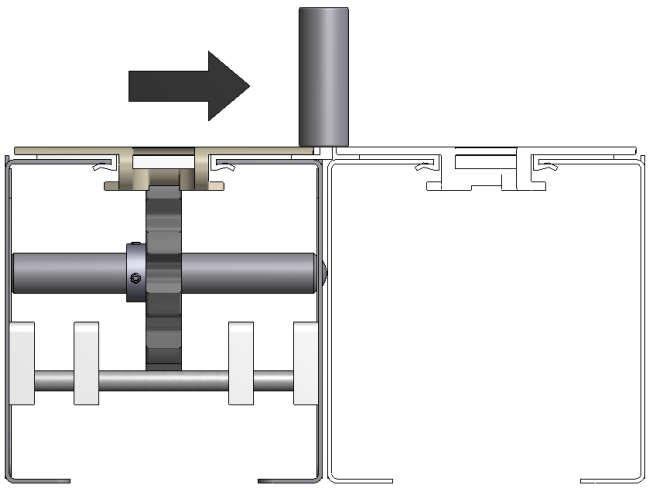
- Right/Left-Hand Side Transfer



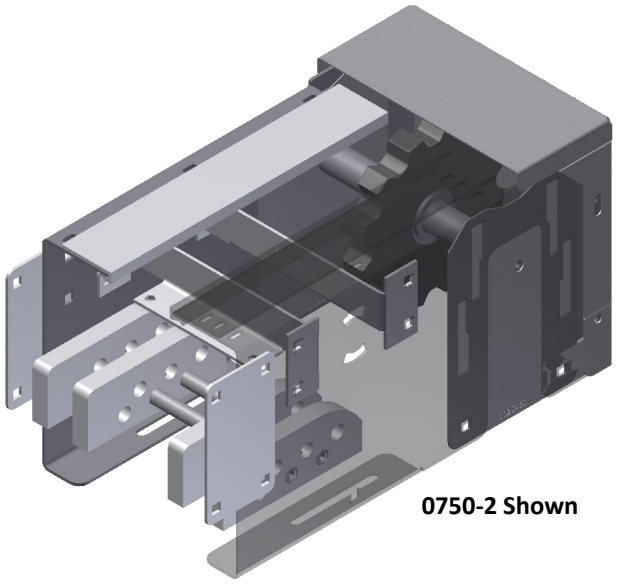


Idle End Side Transfer Specifications:

- Standard design
- Bearing: SS in hub of sprocket
- Fasteners will be button head cap screws on transfer side
- Deadplate wearstrip included to fill the gap (1/2”) between chains (field trim to fit)
- Minimum typical product size to clear transfer is 1.5”
  - Product stability through transfer is affected by height & base contour



0750-2 Shown



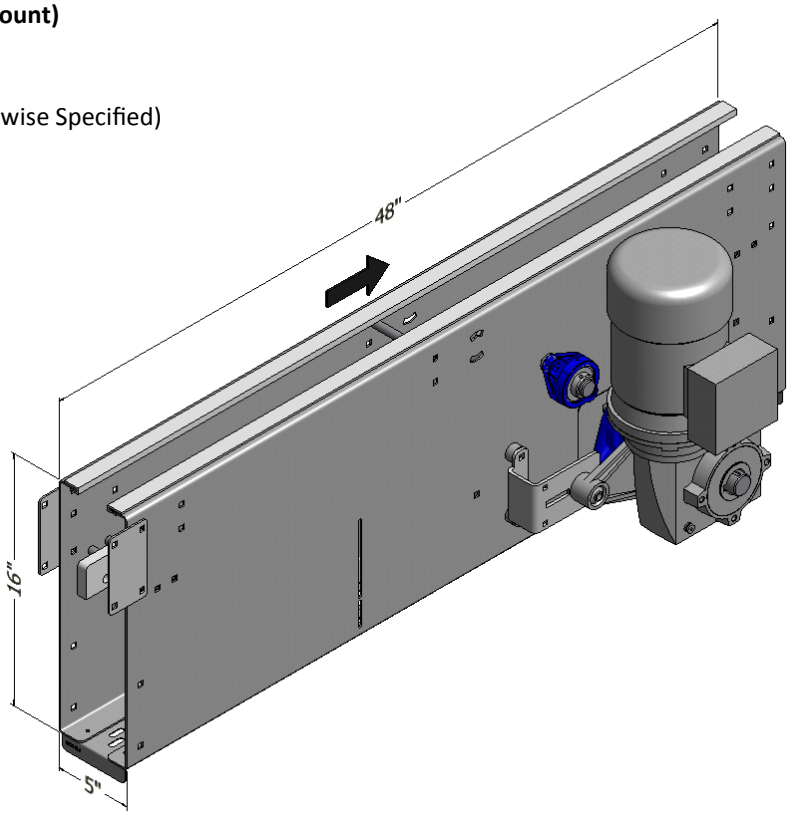
0750-2 Shown

Center Drive

Standard Configuration Shown (Right-Hand Shaft Mount)

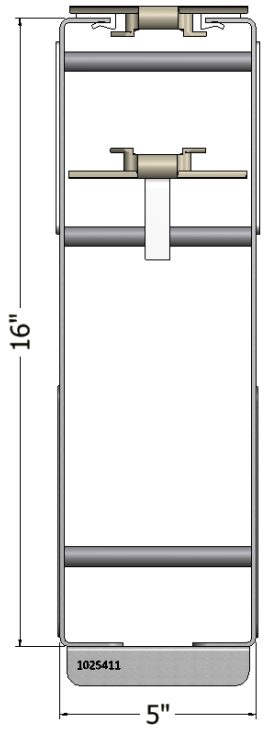
Specifications:

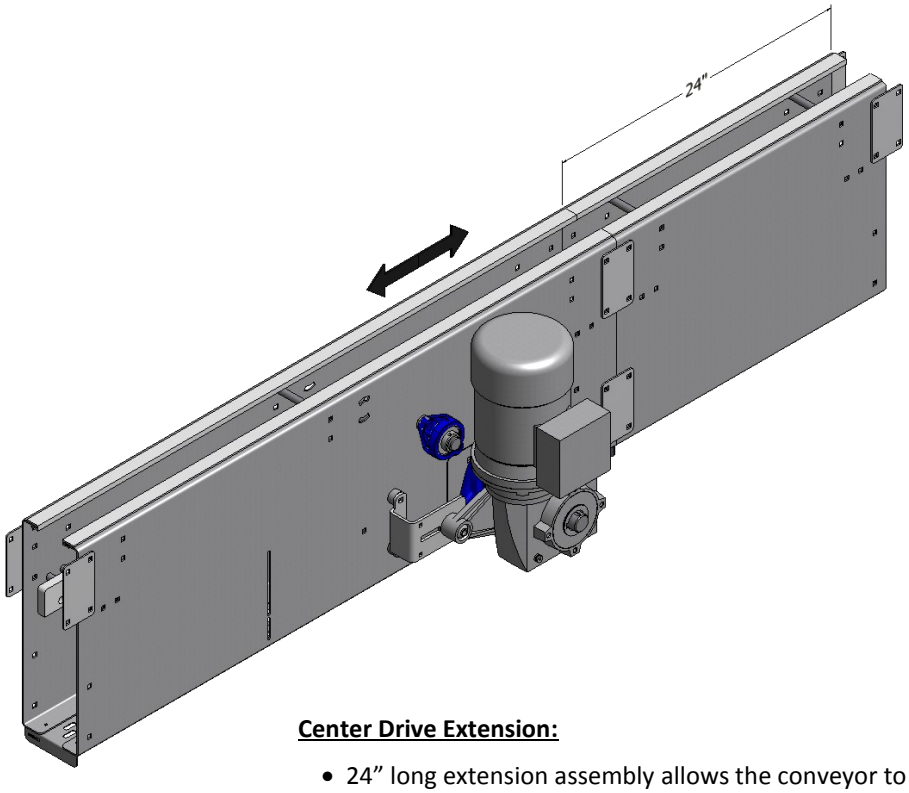
- Standard Drive Will be Right-Hand (Unless Otherwise Specified)
- Shaft Mount Will Include Torque Arm
- See Spec Sheet for Standard Speeds (FPM)
- Support Incline Range ±22°
- **NOT** compatible with LBP style chain



Other Available Configurations:

- Left-Hand Shaft Mount



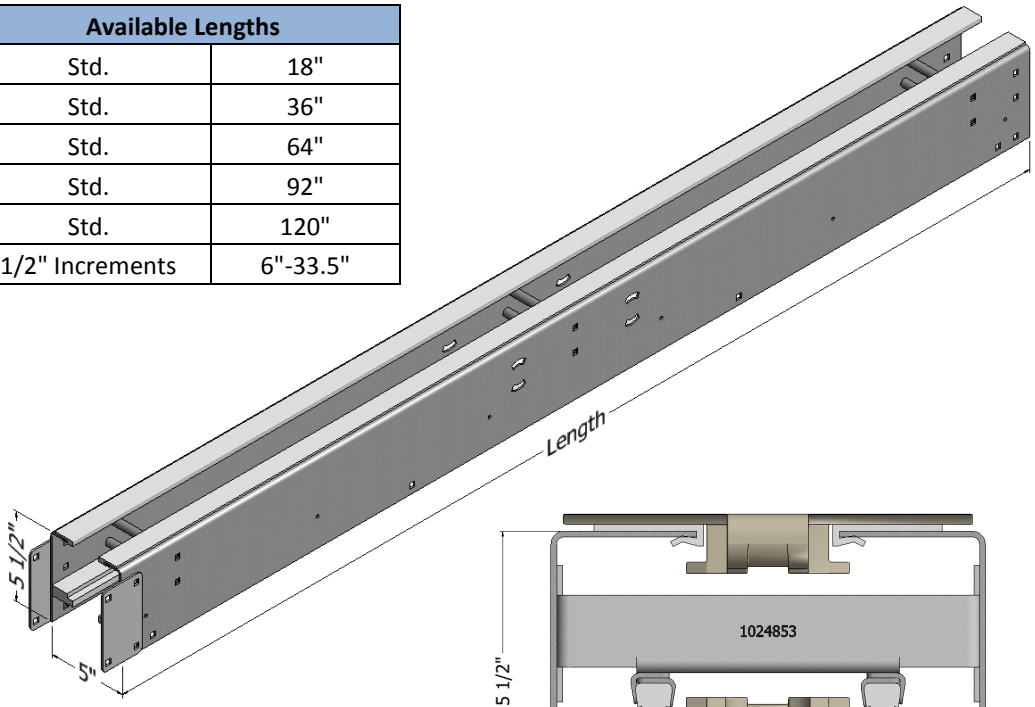


Center Drive Extension:

- 24” long extension assembly allows the conveyor to be bi-directional

Intermediate

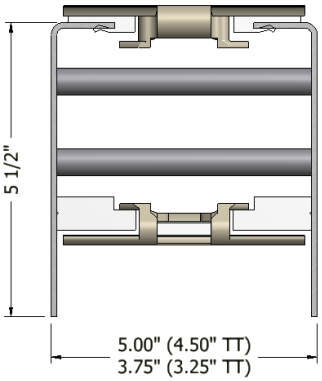
Available Lengths	
Std.	18"
Std.	36"
Std.	64"
Std.	92"
Std.	120"
1/2" Increments	6"-33.5"



Specifications:

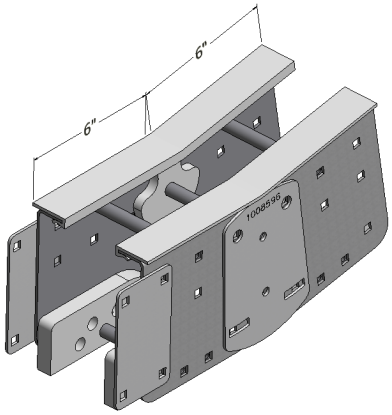
- Support Incline Range ±20°

0750-2

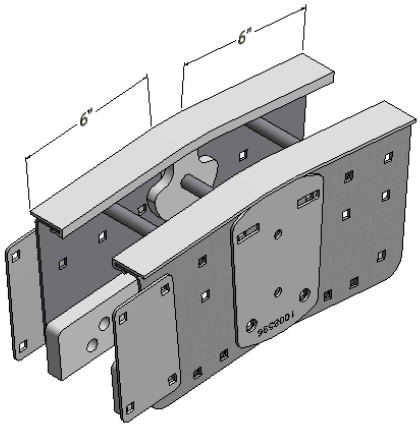


0450-1 (shown)
0450-2
0325-1

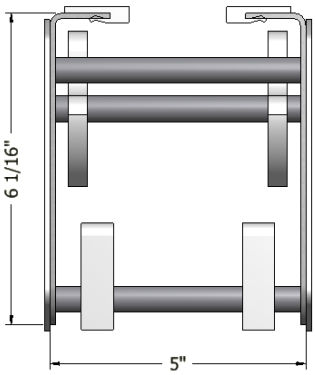
Cope (Adjustable Vertical Turn)



Cope Up



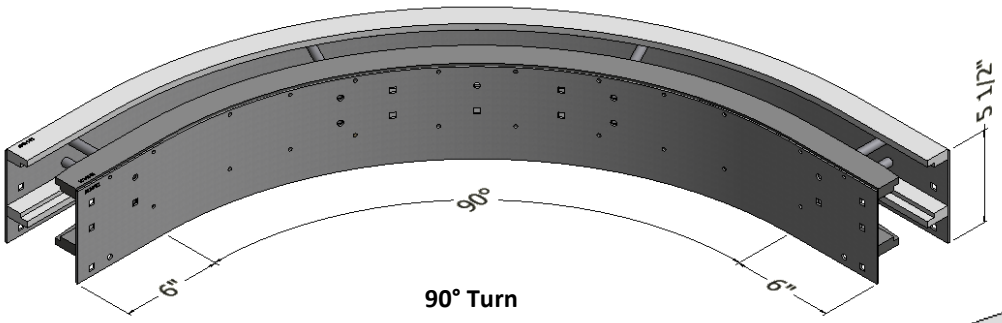
Cope Down



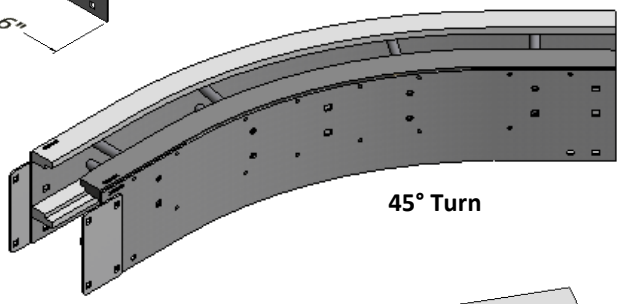
Cope Specifications:

- Adjustable ±15°
- Use double copes for elevation changes between 15° & 30°

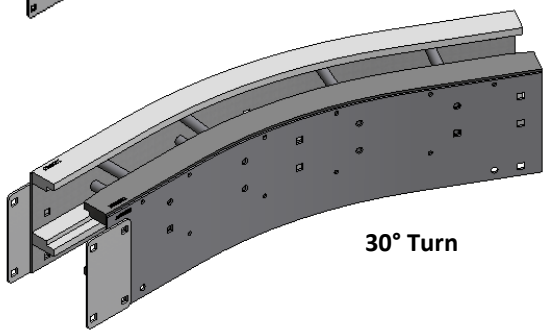
Turns



90° Turn



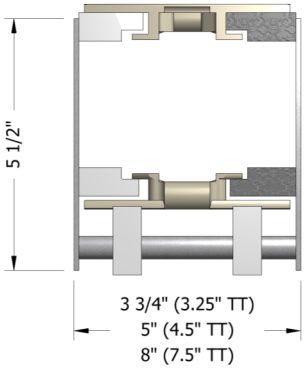
45° Turn

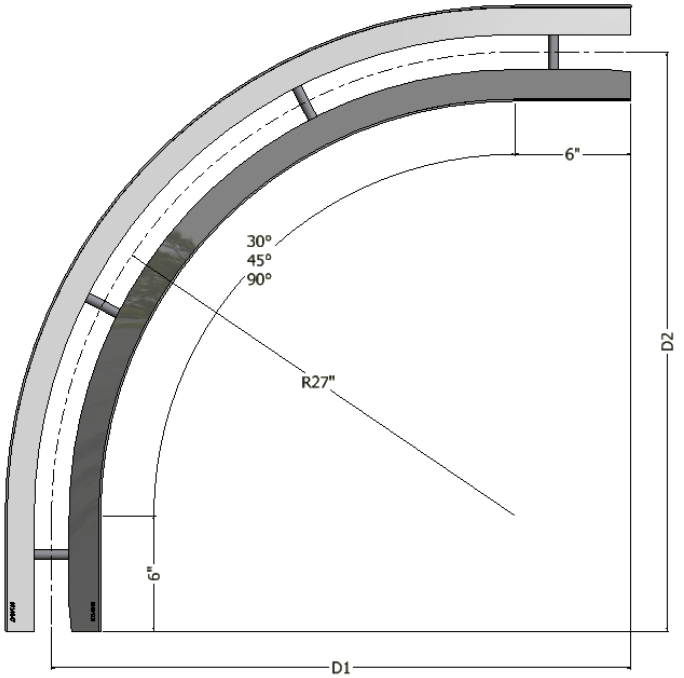


30° Turn

Turn Specifications:

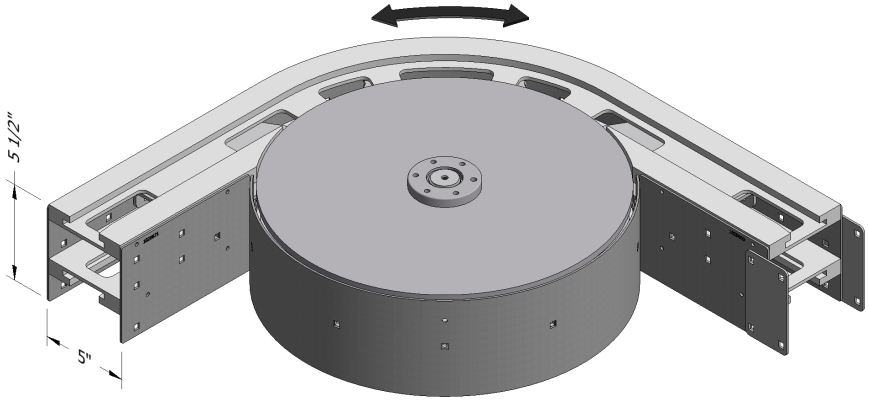
- 4.5” Wide (27” Centerline Radius)
- 7.5” Wide (24” Centerline Radius)
- 3.25” Wide (18” Centerline Radius)
- 6” Straight Tangents on Both Ends
- Inside Wearstrip — Duravar < 200 FPM
- Slider on Tab Returns
- Available in 90°, 45°, & 30° Turns
- Custom Angled Turns Available (Consult Factory)
- Spiral Incline/Decline Turns Available (Consult Factory)
- Support Incline Range ±0°
  - Inclines Require Spiral Turn (Consult Factory)



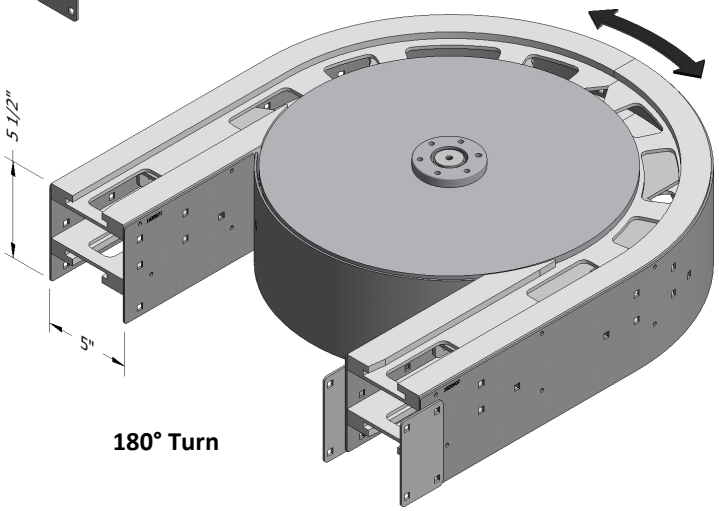


		30°		45°		90°	
Width	**R**	**D1**	**D2**	**D1**	**D2**	**D1**	**D2**
7.5"	24"	6 3/16”	23 3/16”	11 1/4”	27 3/16”	30”	30”
4.5"	27"	6 5/8”	24 5/8”	12 1/8”	29 5/16”	33”	33”
3.25”	18”	5 7/16”	20 3/16”	9 1/2”	23”	24”	24”

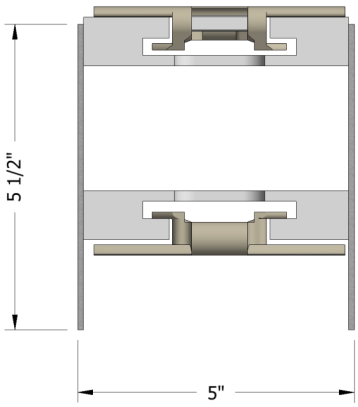
Disc Turns (3.25” & 4.5” TT Only)



90° Turn

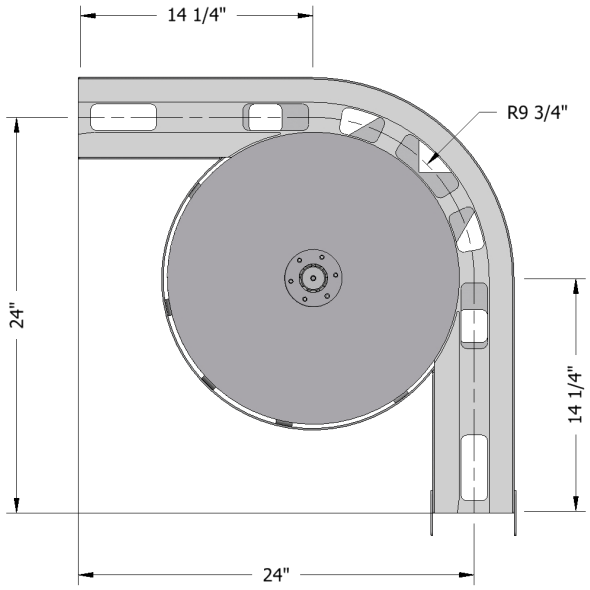


180° Turn

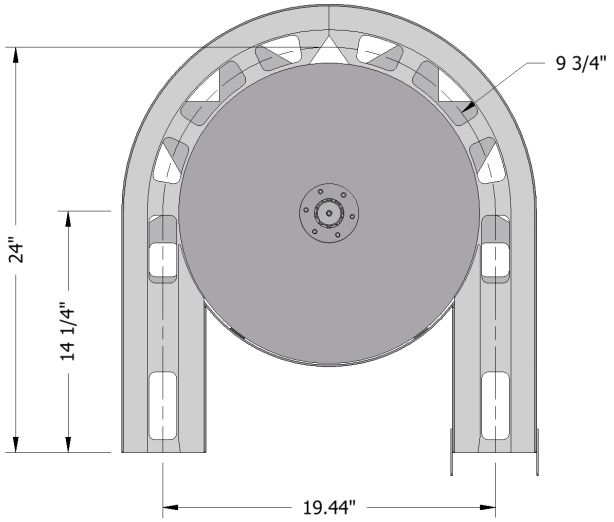


Disc Turn Specifications:

- Available for 4.5” (shown) & 3.25” Wide
- 9.72” Centerline Radius
- Available in 90° & 180° Turns
- Requires BO Tight Radius Tab Chain (See Chain Data Sheet)
- Support Incline Range ±0°



90° Turn

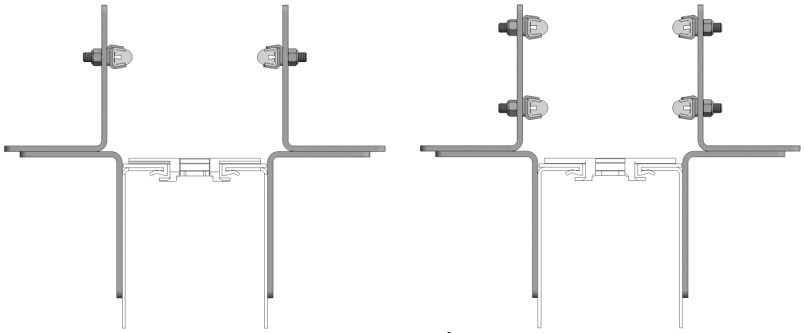


180° Turn

Guide Rail & Brackets

Standard Guide Rail Brackets:

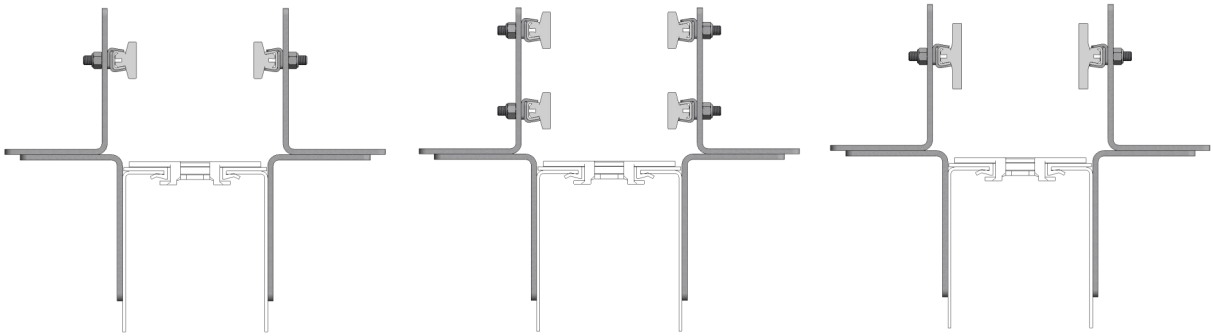
- Adjustable Formed “L” Shaped Brackets
- 7 Ga. Mild or Stainless Steel
  - Mild Steel is “Stardust Silver” Powder Coat Painted



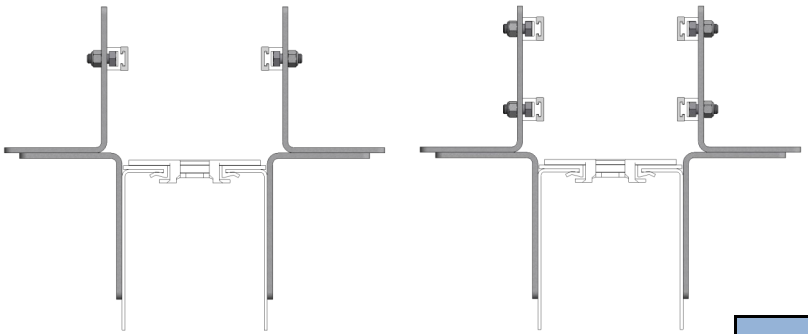
VG-SSR Round Face

Standard Guide Rail Configurations:

- Single or Double High
- Aluminum Channel w/ UHMW Cover
- VG-SSR Round Face
- VG-SST 1.25” & 2.25” T-Face



VG-SST 1.25” T-Face **VG-SST 2.25” T-Face**



Aluminum Channel w/ UHMW Cover

**Consult Factory for Wider Openings*

	Guide Rail Openings					
	VG-SSR		VG-SST		Alum. Channel	
Width	Min.	Max.*	Min.	Max.*	Min.	Max.*
3.25"	0"	5 7/8"	0"	5 5/8"	0"	6 1/8"
4.5"	0"	7 1/8"	0"	6 7/8"	0"	7 3/8"
7.5"	2 3/8"	10 1/8"	2 1/8"	9 7/8"	2 5/8"	10 3/8"

Supports

Formed Angle

Standard Supports:

Formed Angle - Best Value

- "H" Style Formed 2" x 2" Angle w/ Bolt Pad Base
- ±4" Elevation Change
- Nominal Elev. Range 24", 28", 32", 36", 40", 44", 48"
- 7 Ga. Mild or Stainless Steel
  - Silver Powder Coat Painted Mild Steel

Aluminum Pedestal

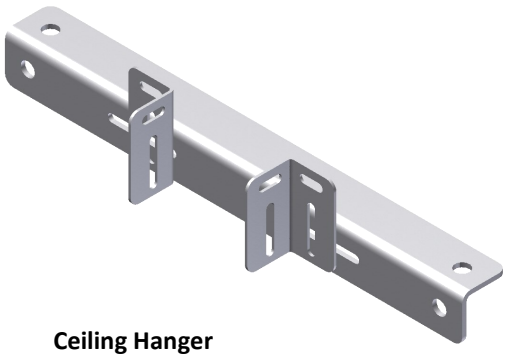
Alternate Supports:

Pipe & Yoke w/ Polished Aluminum Pedestal Base

- ±3" Elevation Change
- Nominal Elev. Range 30", 42"
  - To Obtain Other Elevations, Pipe Must be Cut
- Mild or Stainless Steel Pipe & Yoke

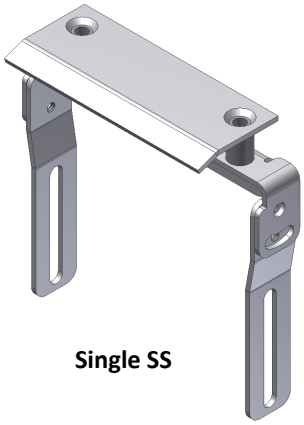
Ceiling Hanger Brackets

- Mild or Stainless Steel
- Drop Rods Provided by Customer



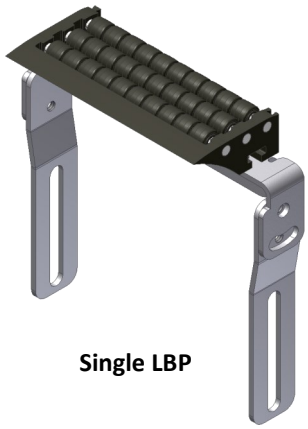
Ceiling Hanger

End Transfers



Single SS

Double SS



Single LBP

Double LBP

Standard End Transfers:

- Single & Double LBP Roller Transfers
- Single & Double SS Deadplate
- Adjustable mounting brackets for vertical & angle adjustability

Optional End Transfers (Consult Factory):

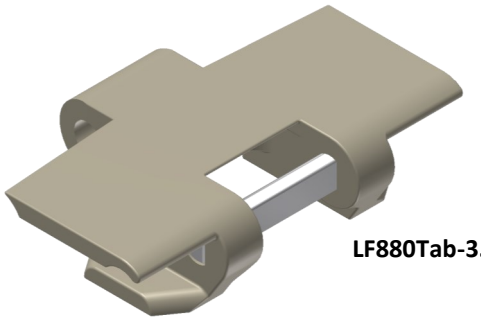
- Single Roller Transfer (Not Shown)
- Bolt-on Powered Transfer (Not Shown)

End Caps

Standard End Caps:

- 18 Ga. Mild & Stainless Steel
- Standard on all Drive, Idle, & Transfers Sections
- Perforated edges allow manual removal of end cap segments for end transfers on drive/idle ends.

Tabletop Chain & Sprockets



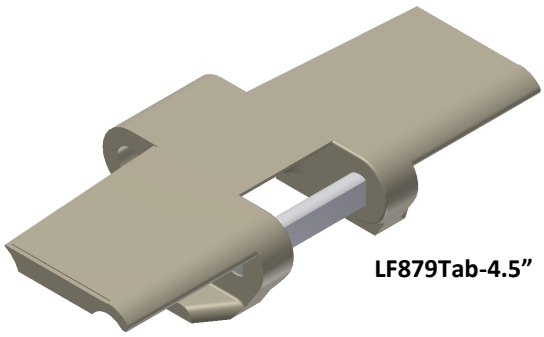
LF880Tab-3.25”

Standard Chains:

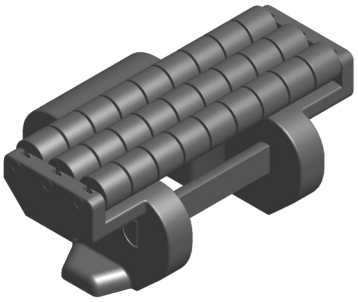
- LF882Tab-K7.5”
- LF879Tab-K4.5”
- LF879/880Tab-K3.25”

Additional Chains:

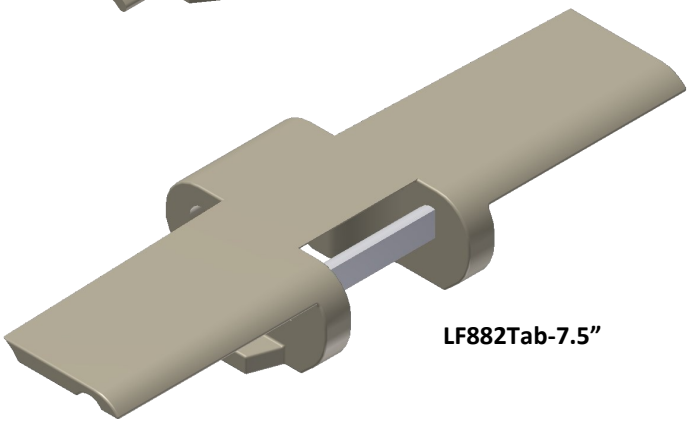
- LF880Tab BO-K3.25”
- LF880Tab BO-K4.5”
- HPM882Tab-K7.5” w/ Friction Inserts
- LBP882Tab-K7.5” w/ Low Back Pressure Rollers



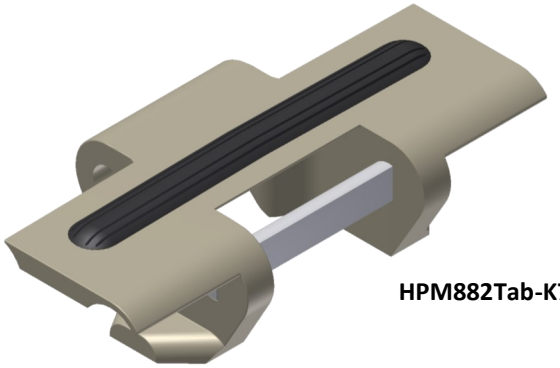
LF879Tab-4.5”



LBP882Tab-K7.5”



LF882Tab-7.5”



HPM882Tab-K7.5”

Drive Sprocket

Idle Sprocket

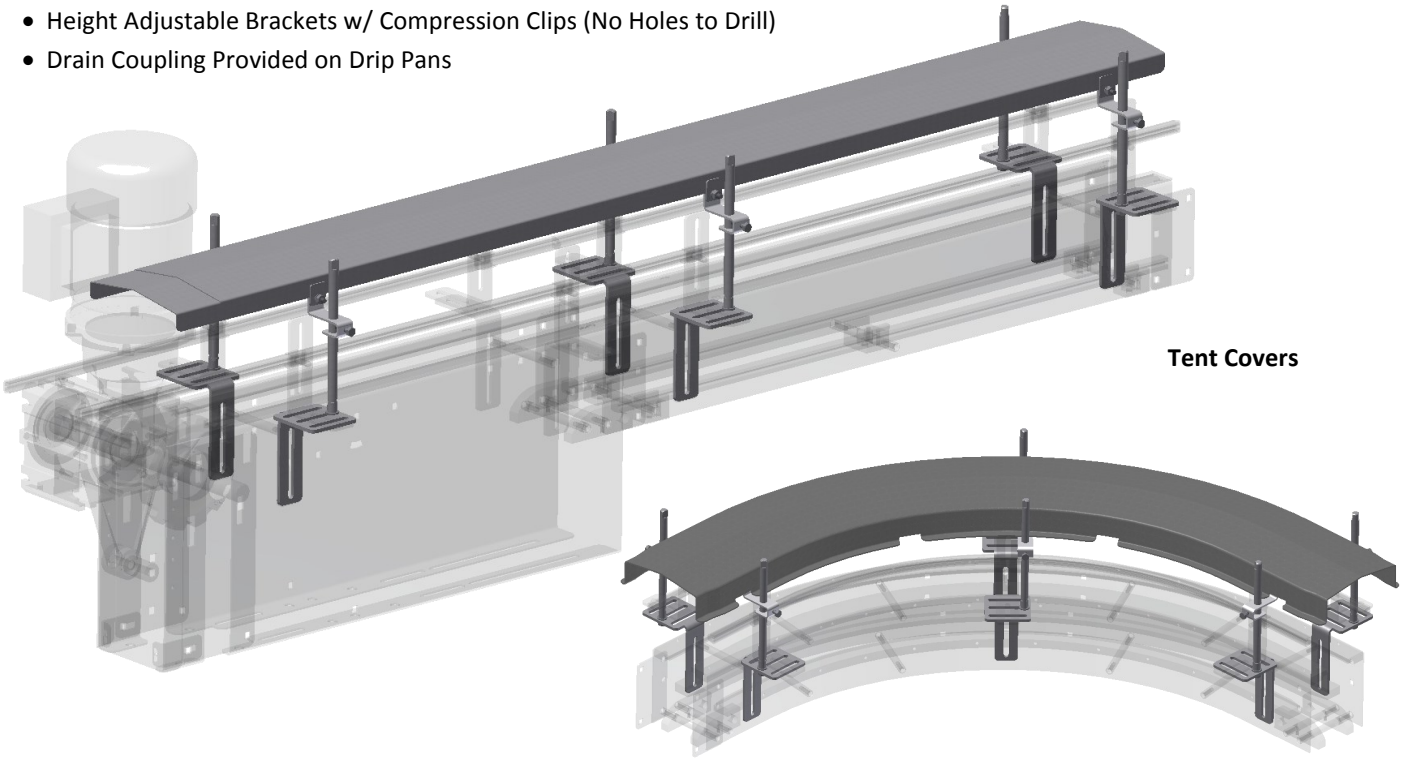
Standard Sprockets:

- Nylatron Material
- Approx. 6.0” Pitch Diameter
- 880 Sprocket for 879Tab-K4.5” & 879/880Tab-K3.25”
- 882 Sprocket for 882Tab-K7.5”

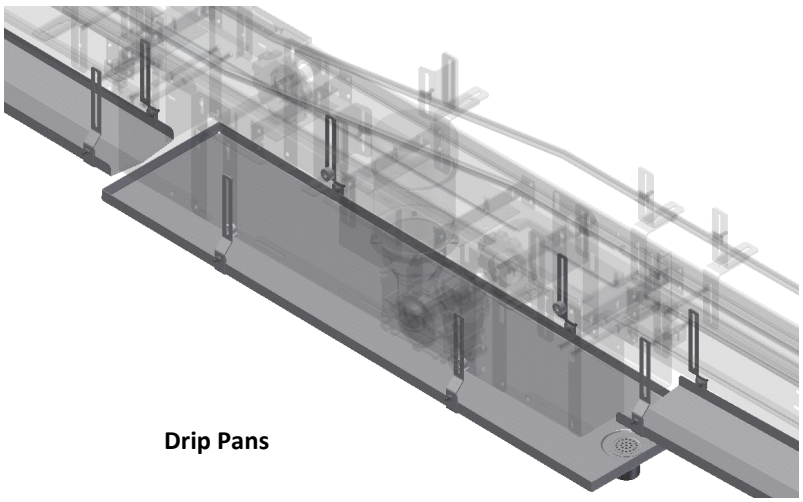
Tent Covers & Drip Pans

Notes:

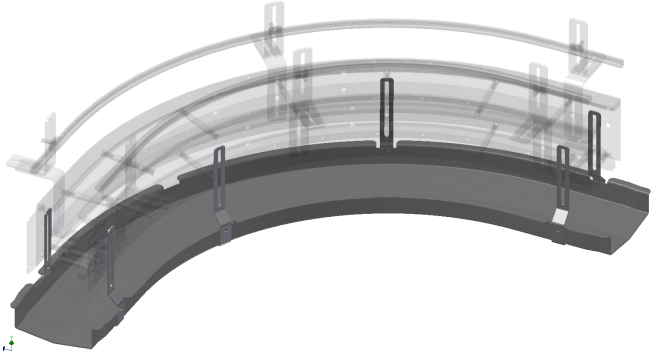
- Only Available on 4.5” & 3.25” Conveyors
- 18 Ga. Stainless Steel (Straights & Transfers)
  - Standard 60” Length Designed for Unlimited Overlap
- Molded Plastic (24” Radius Turns Only)
- Height Adjustable Brackets w/ Compression Clips (No Holes to Drill)
- Drain Coupling Provided on Drip Pans

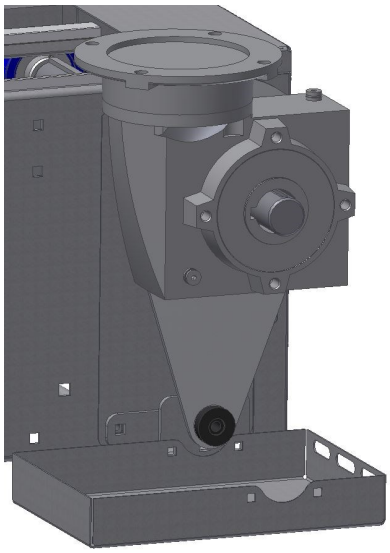


Tent Covers



Drip Pans





Reducer Drip Pan

(Shaft Mount Shown)

Maintenance Information

Pre-Start Checklist

- Fasteners may have loosened during shipping. Check all sprockets and pulley set screws prior to chain installation.
- Inspect all splice points for proper wear strip alignment.
- Hand run a 48" long chain section through conveyor, both carry way and return paths, to check for binding.
- Verify motor rotation
- Verify chain direction is correct (See Figure 1)
  - If intermixing chain manufacturers (Habasit/Rexnord), always match pin to chain as shown (See Figure 1)
- Guide Rail – Check for proper product width before operation.

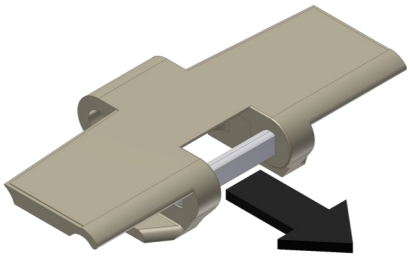


Figure 1

Startup / Break-In

- During first 250 hours of operation – Monitor the following
  - Initial chain stretch – Chain will have an initial stretch. Monitor catenary length, as described below, and remove excess links.
  - Chain dusting – Normally occurring issue that subsides after the first 250 hours of run time. Clean as required

Maintenance

- Catenary length – (See Figure 2)
- Chain length – Replace when 80 links > 123" or 40 links > 61.5"
- Sprocket wear – Look for excessive wear or hooked teeth
- Bearings – sealed for life
- Reducer – Nord reducers – sealed for life
  - Look for leaking seals
- Wearstrip wear
  - Inside turn – When edge of chain is 1/32" or less from inside edge of frame, it is time to replace wearstrip (See Figure 3)

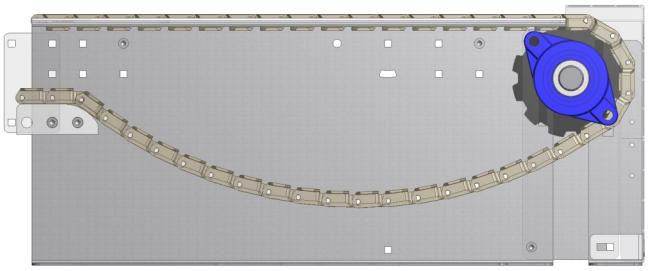


Figure 2

- Chain Surging (Slip – Stick)
  - Hard to predict natural phenomenon that depends on speed, load, construction and lubrication.
  - Most common in long and/or slow running conveyors.
  - Poses no operational concerns unless it causes product tipping .
    - Look for chain binding at turns and copes in both the carry way (product path) and the return path.
- Motor Hop & Wobble
  - Natural phenomenon that is desirable
  - Poses no operational concerns with life expectancy of conveyor or reducer
  - Wobble releases stress build up due to normal machining tolerances in rotating shaft.
  - Increases equipment longevity compared to rigidly mounted reducers where misalignments are trapped.
    - Longer reducer life
    - Longer bearing life
    - Longer shaft life

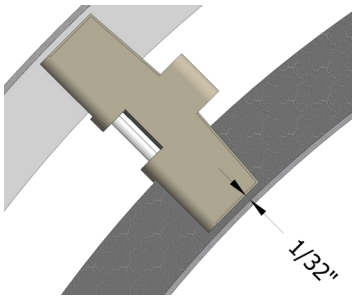


Figure 3

Notes