



# **4", 8", 12", 18", 24"**

## **Belt Conveyor**

## **Specifications**

**Complete Conveyor Systems and Equipment**

# Conveyor Specifications

Toll Free (844) 220-0086

Frame	Material Thickness	Material	Finish	Design	
	12 GA	Stainless Steel	#4 polish finish	Closed top	
	12 GA	Mild steel	"Stardust Silver" powder coat paint	<ul style="list-style-type: none"> <li>• Open top</li> <li>• Safety design to prevent pinch points</li> </ul>	
Standard Modules	Parts				
	<ul style="list-style-type: none"> <li>• End terminals</li> <li>• Center drives</li> <li>• Intermediates</li> </ul>				
Frame Design	Carryway	Return			
	Slider bed	PVC roller			
Motor/Reducer (Dry Environment)	Brand/Style	Voltage	Body Frame	Mounting	Options
	Nord <ul style="list-style-type: none"> <li>• "C" face motor</li> <li>• Inverter duty</li> <li>• IP55 rated</li> </ul>	230/460-3	Corrosion resistant aluminum	Shaft	<ul style="list-style-type: none"> <li>• Washdown duty</li> <li>• TuPH finish with Sterling Stainless Steel motor</li> <li>• Below mounting</li> </ul>
	<ul style="list-style-type: none"> <li>• Nord Flexbloc</li> <li>• Hollow bore reducer with plug-in shaft</li> </ul>	N/A	Corrosion resistant aluminum		
Conveyor Speeds	Standard Nominal (FPM)		Minimum	Maximum	
	<ul style="list-style-type: none"> <li>• 25</li> <li>• 40</li> <li>• 65</li> </ul>	<ul style="list-style-type: none"> <li>• 80</li> <li>• 110</li> <li>• 165</li> </ul>	10 FPM* *Speed obtained using a VFD	200 FPM* *Speed obtained using a VFD	
Supports	Style	Elevation Range	Elevation Change	Options	
	<ul style="list-style-type: none"> <li>• "H" Formed 2"x2"</li> <li>• Angled</li> <li>• Bolt pad base</li> <li>• Formed sanitary channel w/spacers &amp; bolt pad base</li> </ul>	±2"	Nominal 22" - 50"	<ul style="list-style-type: none"> <li>• Ceiling hanger brackets</li> <li>• 1½" Square tube, El. range 24-45" (±3)</li> </ul>	
Bearings (Center Drive)	Construction	Finish		Options	
	<ul style="list-style-type: none"> <li>• 2-Hole flange</li> <li>• Steel insert with set-screw</li> </ul>	<ul style="list-style-type: none"> <li>• Painted</li> <li>• Sealed for life</li> <li>• General purpose lube</li> </ul>		<ul style="list-style-type: none"> <li>• Polymer housing</li> <li>• Food grade lube</li> <li>• Zinc plated or Stainless Steel inserts</li> <li>• Safety covers</li> </ul>	
(End Terminal)	2" SCH 80 SCH 40 Pulley				
(Snub Pulley)	3 ½" SCH 40 Pulley				

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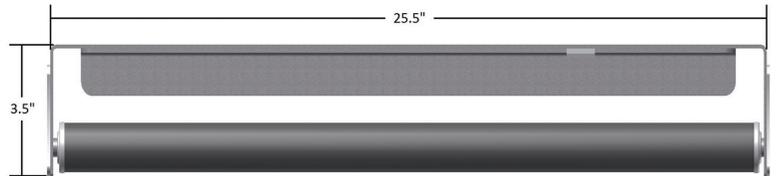
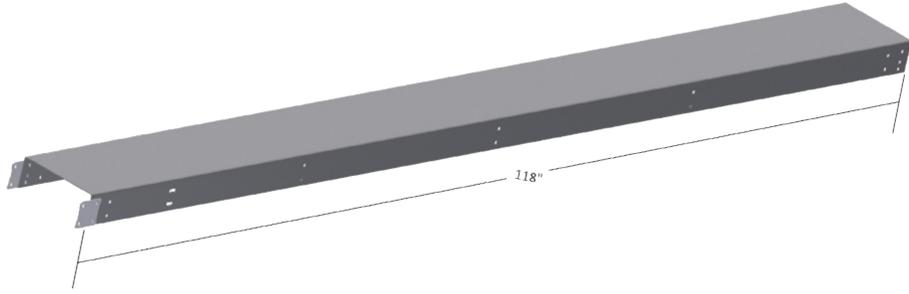
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Guide Rail & Brackets	Material Thickness	Material	Finish Rail Types	Bracket Shape
	7 GA	Stainless Steel	<ul style="list-style-type: none"> <li>• Single or Double                             <ul style="list-style-type: none"> <li>▶ Aluminum Channel with UHMW cover</li> <li>▶ VG-SSR round face</li> <li>▶ VG-SST 1.25" &amp; 2.25" T-Face</li> </ul> </li> </ul>	Adjustable "L"
Shafts	Diameter			
	<ul style="list-style-type: none"> <li>• Idle = 1.0"                             <ul style="list-style-type: none"> <li>▶ With 2" SS schedule 80 pulley</li> </ul> </li> <li>• Drive = 1.25"                             <ul style="list-style-type: none"> <li>▶ With 5" SS schedule 40 pulley with lagging</li> </ul> </li> </ul>			
Belt	Types			
	<ul style="list-style-type: none"> <li>• White food grade</li> <li>• Tan rough top</li> </ul>			

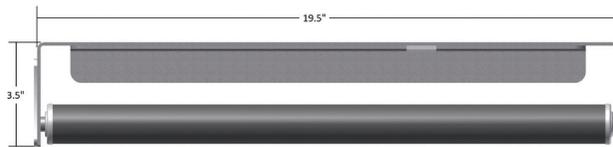
# Part Specifications

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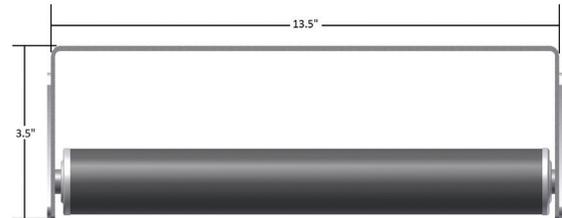
Intermediate	Standard Configurations	Lengths	Belt Width	Belt Options	Support Incline
	<ul style="list-style-type: none"> <li>• 12 GA</li> <li>• Stainless Steel</li> <li>• #4 polish finish</li> <li>• PVC roller return</li> </ul>	<ul style="list-style-type: none"> <li>• Standard                             <ul style="list-style-type: none"> <li>▶ 64", 92", 118"</li> </ul> </li> <li>• Custom                             <ul style="list-style-type: none"> <li>▶ ½" increments from 6" to 41 ½"</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• 4", 8", 12", 18", 24"</li> </ul>	<ul style="list-style-type: none"> <li>• White food grade</li> <li>• Tan rough top</li> </ul>	Range ±22"



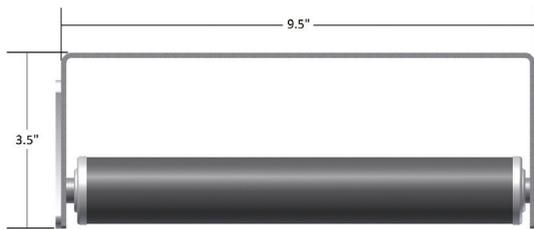
**24" Belt Frame**



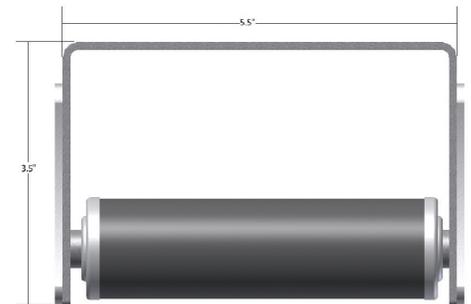
**18" Belt Frame**



**12" Belt Frame**



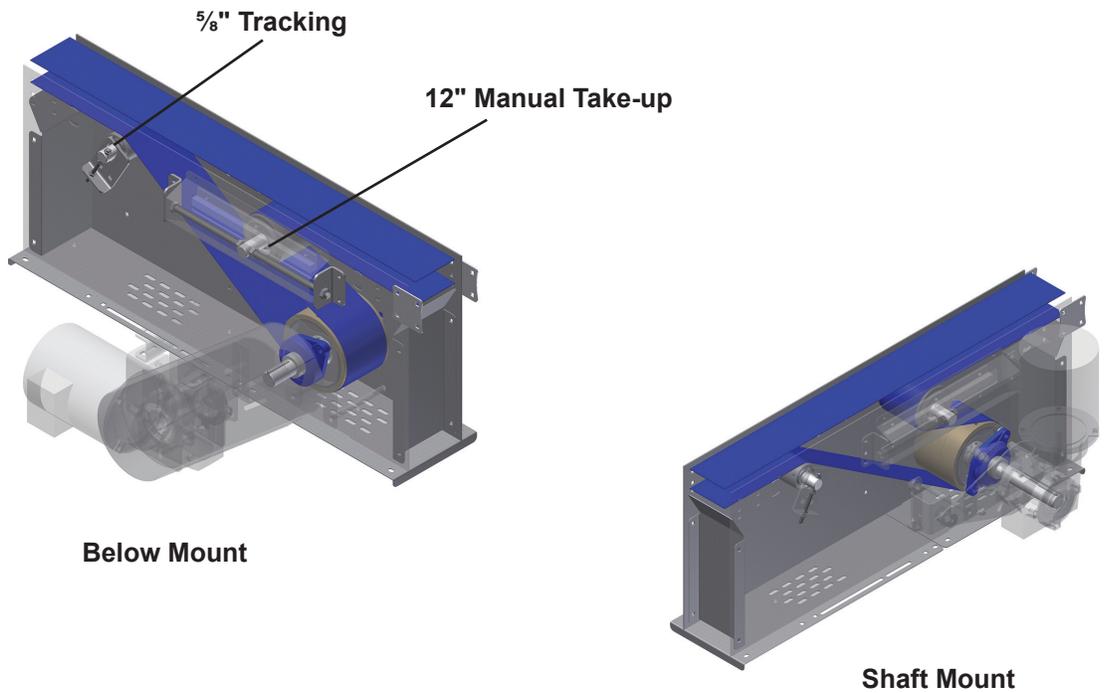
**8" Belt Frame**

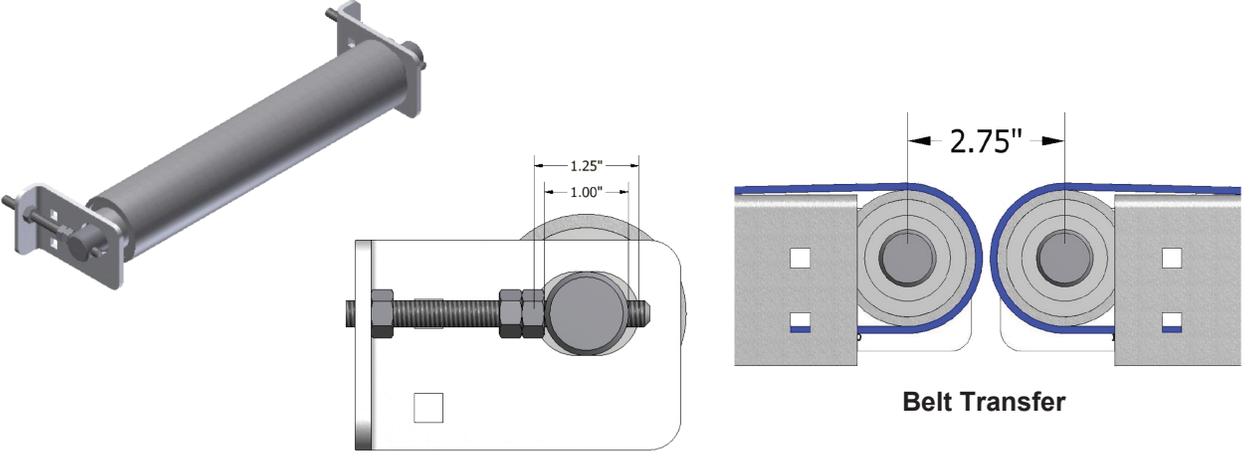


**4" Belt Frame**

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Center Drive	Standard Configuration	Drive Pulley	Snub Pulley
	<ul style="list-style-type: none"> <li>• 12 GA</li> <li>• Stainless Steel</li> <li>• #4 polish finish</li> <li>• #50 roller chain &amp; sprockets</li> </ul>	<ul style="list-style-type: none"> <li>• 5" schedule 40 Stainless Steel                             <ul style="list-style-type: none"> <li>▶ Tropizodal crowned</li> <li>▶ Spiral rough top lagging</li> <li>▶ 3 <sup>3</sup>/<sub>16</sub>" diameter overall</li> </ul> </li> </ul>	2" schedule 80 Stainless Steel
 <p style="text-align: center;"><b>Below Mount</b> <span style="margin-left: 300px;"><b>Shaft Mount</b></span></p>			

End Terminal	Standard Configuration
	<ul style="list-style-type: none"> <li>• Fastened to end of first and last intermediate sections</li> <li>• 1/4" tracking adjustment</li> <li>• 2 3/4" between center of end terminal pulleys of transfers</li> <li>• 2" schedule 80 Stainless Steel pulley</li> <li>• 1" "ER" bearing</li> </ul>
 <p style="text-align: center;"><b>Tracking Adjustment</b> <span style="margin-left: 200px;"><b>Belt Transfer</b></span></p>	

# Maintenance Information

## 1. Pre-Start Checklist

- Fasteners - Some may have loosened during shipment. Re-tighten as required
- Verify installation is level and true - no twisting of frame
  - ▶ Twisted, un-level frames cause belt drift
- Be sure all rollers and pulleys rotate freely and are square to frame
- Verify product clearance and motor rotation prior to operation

## 2. Tensioning

- Tension must be sufficient to prevent slippage between the drive pulley and the belt; and for the belt to conform to the crown of any crowned pulley.
- To check the tension, (with the belt stopped) press down on the belt at the outside edge of the belt where it contacts a crowned pulley. If there is a play between the belt and the pulley the tension needs to be increased. This should result in the proper tension. If the slippage occurs at the drive pulley, further tensioning is required. **DO NOT OVER TENSION THE BELT.** This will cause excessive stretch of the belt and may damage the belt, pulleys and shafts. It also makes the belt more difficult to track and requires more horsepower to move the belt.

## 3. Tracking

- If the belt moves out of line too quickly to make tracking adjustments, re-check the conveyor installation to be sure the bed is properly aligned and that all pulleys and rollers are square to the belt centerline. Be sure the belt has been spliced squarely, and re-spliced if necessary. If these adjustments do not correct the belt tracking sufficiently to proceed with the following adjustments, consult the factory.
- With the belt empty, start with the return run working toward the tail pulley and then follow with the top run in direction of the belt travel. Re-check the tracking with a fully loaded belt only after the empty belt has been properly tracked.
- Tracking adjustments are to be made while the belt is running
- After locating a trouble spot, adjustments should be made over some length of conveyor preceding the area of trouble
- When making adjustments let the belt make at least three complete revolutions after each adjustment to determine the effect on the belt tracking (unless it appears the belt will run off a pulley or conveyor frame).
- If the adjustment has caused the belt to over correct, reposition the same roller or pulley that caused the over correction, do not try to compensate by making an adjustment in a different area.
- When adjusting rollers and pulleys, remember that the belt moves toward the end of the roller/pulley that it contacts first.

## 4. Start-up/Break-in

- Monitor the following daily during the first 250 hours of operation
  - ▶ Make sure belt tightness is maintained; adjust belt tension accordingly (see above)
  - ▶ Check pulley, shaft and bearing relationships for indications that pulleys or shafts are "walking", or moving from their original position; adjust belt tracking accordingly (see above).

## 5. Maintenance

- Semi-annual inspection of equipment is recommended for long life and exceptional operation
  - ▶ Bearings are sealed for life - no grease required
  - ▶ Check for unusual wear on belt, pulleys, rollers or bed
  - ▶ Check drive chain and sprockets for wear



Warranty



MODULAR CONVEYOR EXPRESS WARRANTY

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MODULAR CONVEYOR EXPRESS will repair or replace any products that have failed under normal use due to faulty material or defective workmanship for 1 year. Motors and chain carry the manufacturer's warranty. No other warranty is expressed or implied unless otherwise set forth in writing and approved by representative duly authorized to extend such approval by MODULAR CONVEYOR EXPRESS. All rights of design and invention are reserved.

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