

partnered with



12", 18", 24"
Mat-Style Conveyor
Specifications

Complete Conveyor Systems and Equipment

Conveyo	r Specifications				
Frame	Material Thickness	Material	Finish	Design	
	12 GA	Mild steel	"Stardust Silver"	Open top	
	40.04		powder coat paint		
12 GA Stainless Steel			#4 finish		
Standard	Parts				
Modules	Idle ends				
	Drive ends				
	Center drives30°, 45°, 90° Turns				
	• Intermediates				
	Parallel transfer 12" ONL	.Y			
	• Copes				
	► Adjustable vertical tu	irns			
Wearstrips	Carryway		Return		
	• 1/8" Thick UHMW in straig	jhts	UHMW edge guide		
	• Turns:				
	UHMW outsideDuravar inside				
	P Baravar morae			<u> </u>	<u> </u>
Motor/	Brand/Style	Voltage	Frame Body	Mounting	Options
Reducer	• Nord	230/460-3	Corrosion resistant	C-face	Below or above
	"C" face motorInverter duty		aluminum		Washdown painted Stainless/TuPh finish
	➤ VFD & IP55 rated				Otaline33/14/11/IIIII3/1
	• Nord	N/A	Corrosion resistant	Vertical shaft with torque	
	Hollow bore reducer		aluminum	arm	
Conveyor	Standard Nominal	Minimum	Maximum	Above Maximum	
Speeds	(FPM)	17777	Widalitaiti	7 loove maximam	
	• 40	30 FPM*	290 FPM*	Consult factory for speeds	
	• 60	*0	*0	above 300 FPM	
	• 100 • 125	*Speed obtained using a VFD	*Speed obtained using a VFD		
	• 165	doing a vi B	aoing a vi B		
	• 250				
Cupporto	Style	Elevation	Flevation Penga	Ontions	
Supports		Change	Elevation Range	Options	
	• "H" Formed 2"x2"	±2"	Nominal	Ceiling hanger brackets	
	Angled		22" - 50"		
	Bolt pad base				

Conveyor Specifications					
Bearings	Construction	Finish	Options		
	2-Hole flange Steel insert with set-screw	Painted Sealed for life General purpose lube	Polymer housingFood grade lubeZinc plated or Stainless Steel insertsSafety covers		
Shafts	Diameter				
	Idle = 1.0"Drive = 1.25"				
Conveyor	Parts				
Accessories	Low Back Pressure (LBP) roller transfer Stainless Steel (SS) dead plate				

Guide Rail & Brackets

See page 12

Mat-Style Chains and Sprockets • See page 13

Drive End

Standard Configurations

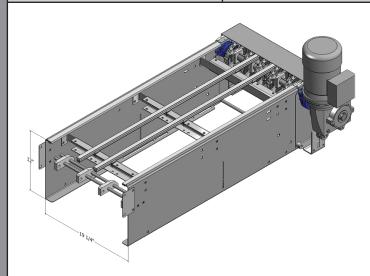
- 45" long
- Right-hand (Illustrated below)
 *Unless otherwise specified
- Flush mount on left side
- Shaft mount includes torque arm

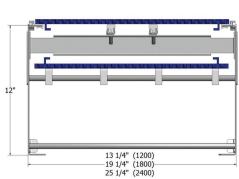
Optional Configurations

Left-hand shaft mount30" long available (Consult factory)

Specifications

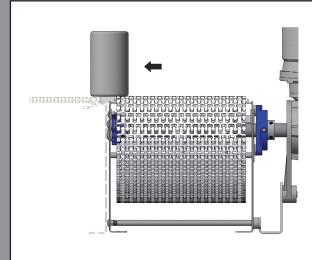
- See page 3 for standard speeds (FPM)
- Support incline range ±22°
- Shoes must be moved to outside edge of frame to run friction top chain





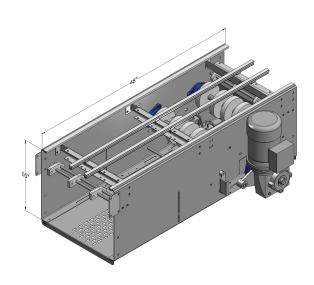
Side Transfer Configurations

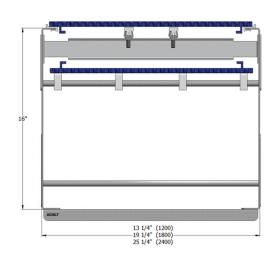
- Bearing will be installed on inside of frame
 on flush side
- Carriage head bolt fasteners on both sides
- Extended wearstrip with a gap filling leg will be provided on flush side
- Minimum typical product size to clear transfer is 3"
 - ► Product stability through transfer is affected by height & base contour



Center Drive

	Standard Configurations	Optional Configurations	Specifications
	Right-hand shaft mount (Illustrated below)	Left-hand shaft mount	See page 3 for standard speeds
	*Unless otherwise specified		(FPM)
۱	Shaft mount includes torque arm		Support incline range ±22°

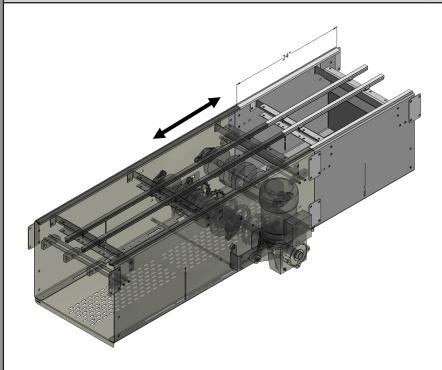




Note: All images depict 18" conveyor.

Extension Specification

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



Note: All images depict 18" conveyor.

Parallel Transfer (Available for only 12")

Standar	d Configurations
Right to	o left-hand, RH shaft mount
/Illustra	ated holow)

- (Illustrated below) · Shaft mount includes torque arm
- End caps (Finger guards) included

Optional Configurations · Right-to-left LH

- · Left-to-right RH
- · Left-to-right LH
- · Right or left-hand below mount

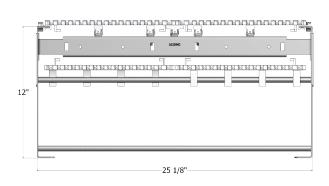
• 72" Long

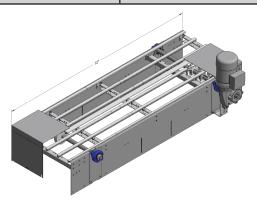
· Support incline range ±22°

Specifications

Advantages

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





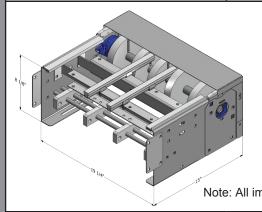
Idle End

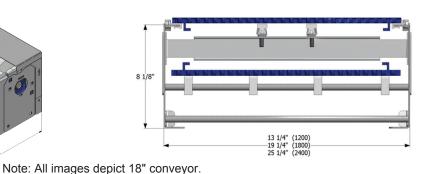
Standard Configurations

· Side transferable both sides (Shown below)

Specifications

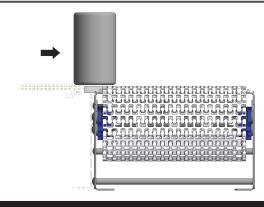
- · Support incline range ±22°
- Shoes must be located outside edge of frame when using friction top chain



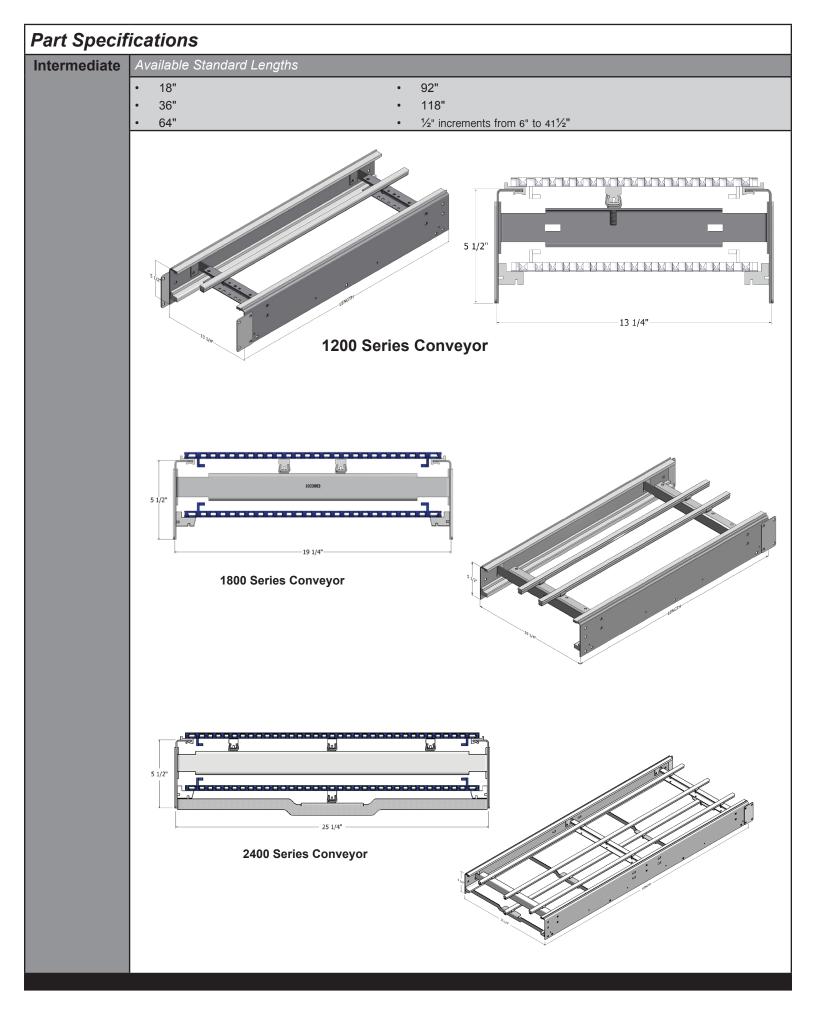


Side Transfer Configurations

- · Bearing installed on inside of frame on both sides
- · Carriage head bolt fasteners on both sides
- · Extended wearstrip with a gap filling leg will be provided on flush side
- Minimum typical product size to clear transfer is 3"
 - ▶ Product stability through transfer is affected by height & base contour



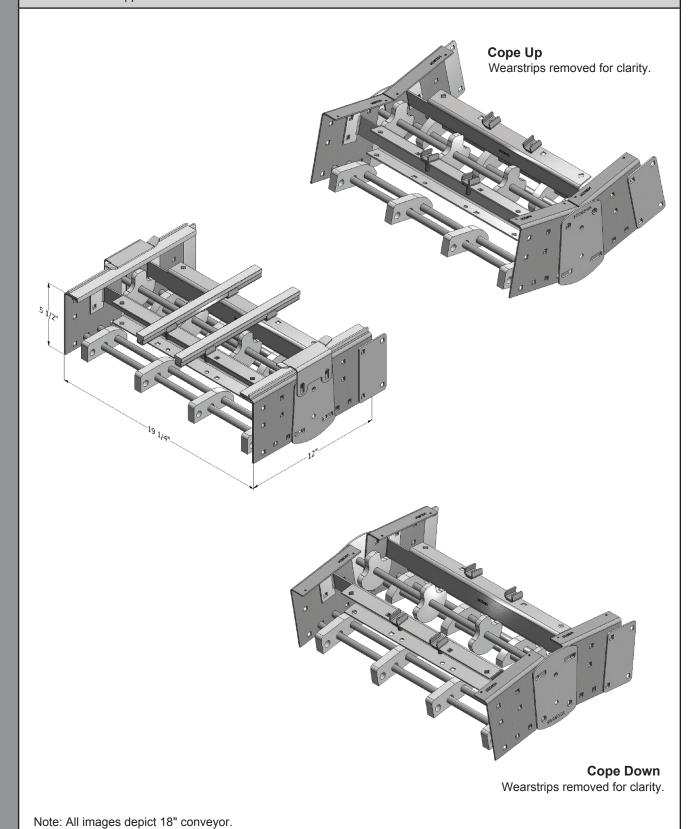
Note: All images depict 18" conveyor.



Cope (Adjustable Vertical Turns)

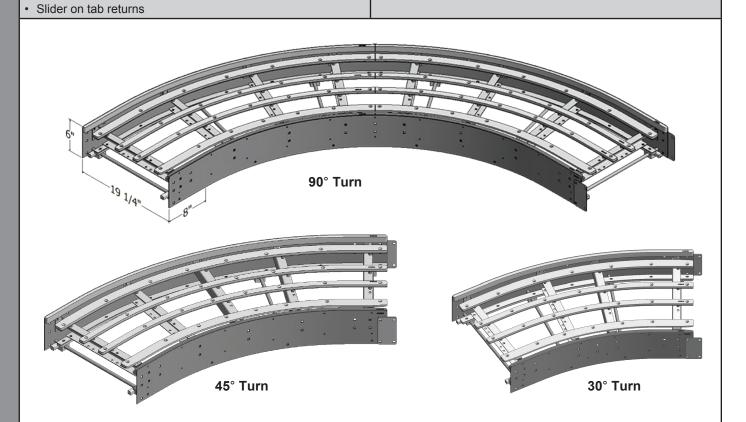
Specifications

- Copes are adjustable ±15°
- Use two copes for elevation changes between 15° and 30° $\,$
- Provisions for supports -- None

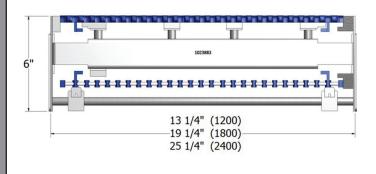


Turns

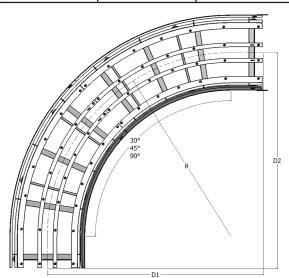
_		
	Standard Configurations	Specifications
	• 12" wide (30 ²³ / ₃₂ " centerline radius)	Support incline range ±0°
	• 18" wide (46 ³¹ / ₃₂ " centerline radius)	Incline requires spiral turn design (consult factory)
	• 24" wide (63 ⁵ / ₁₆ " centerline radius)	
	Available in 30°, 45° & 90° turns	



		30	O°	45°		45° 90°	
Width	R	D1	D2	D1	D2	D1	D2
12"	30 ²³ / ₃₂ "	8 3/4"	32 %"	15 ¹¹ / ₁₆ "	37 ⁷ / ₈ "	41"	41"
18"	46 31/32"	10 ⁵ / ₁₆ "	38 ¹⁵ / ₃₂ "	19 ⁷ / ₁₆ "	46 ¹⁵ / ₁₆ "	55"	55"
24"	65 ⁵ / ₁₆ "	11 ¹³ / ₁₆ "	44 ⁵ / ₃₂ "	23 ⁹ / ₃₂ "	56 ³ / ₁₆ "	70"	70"



Note: All images depict 18" conveyor.

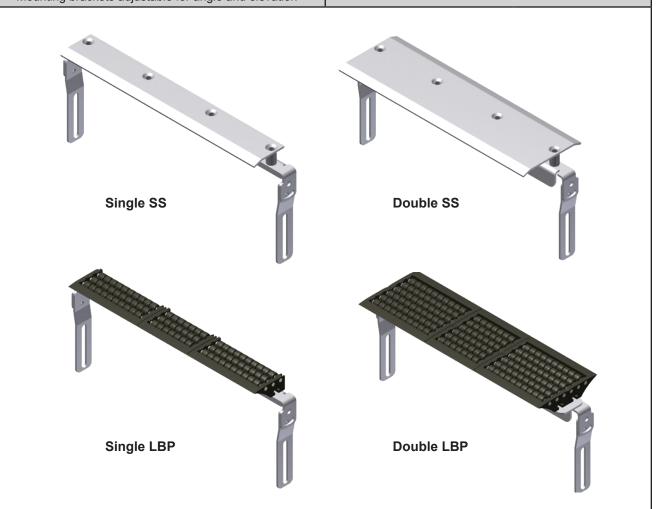


End Transfers

Standard Design

Optional Design (Consult Factory)

- Single & double LBP roller transfers
- Single & double SS deadplate
- Mounting brackets adjustable for angle and elevation
- Single roller transfer (not shown)
- Bolt-on powered transfer (not shown)



End Caps

Standard Design

- 16 GA Mild & Stainless Steel
- · Standard on all drive, idle and transfer sections
- Perforated edges allow manual removal of end cap segments for end transfers on drive/idle ends

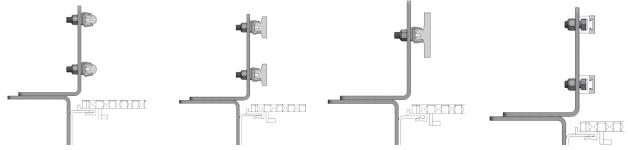


Guide Rail

Standard Configurations (Illustrated below)	Optional Configuration
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- Single high
- Double high

- Sheet rail
 - UHMW



VG-SSR Round Face

VG-SST 1.25" T- Face

VG-SST 2.25" T- Face

Aluminum Channel w/UHMW Cover

Guide Rail Openings						
	VG-SSR VG-SST Alum. Channel			hannel		
	Min.	Max.*	Min.	Max.*	Min.	Max.*
12"	7 %"	15 ¾"	7 %"	15 1⁄8"	7 1/8"	15 %"
18"	13 %"	21 %"	13 %"	21 1/8"	13 1/8"	21 %"
24"	19 %"	27 %"	19 %"	27 1/8"	19 1/8"	21 %"

*Consult factory for wider openings

Bracket

Standard Configuration

- Adjustable formed "L" shaped brackets
- 7 GA Mild or Stainless Steel
- ► Mild steel is "Stardust Silver" powder coat painted

Optional Configurations

- · Gusseted "L" shaped brackets
- Molded plastic brackets
- · Tool-less adjust-ability



Supports

Standard Configuration

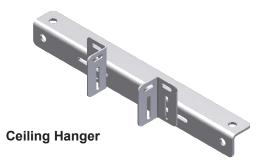
- "H" style formed 2"x2" angled with bolt pad base
- ±4 Elevation change
- Normal elevation range 22" 50"
- 7 GA Mild or Stainless Steel
 - ► Mild steel is "Stardust Silver" powder coat painted

Optional Configurations

- Mild or Stainless Steel
- Drop rods PROVIDED BY CUSTOMER

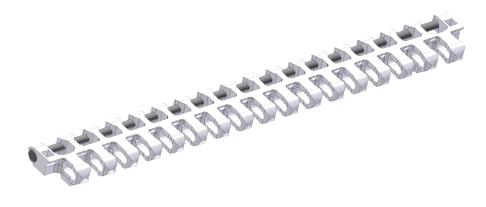


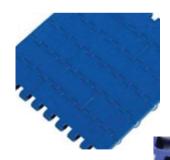
Formed Angle



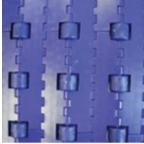
Mat-Style Chain

- M2500 Series
 - ▶ All M2500 Series chains use common sprockets





Flat Top



LBP Roller Top



Flat Friction Top

Sprockets

Specifications

- Approx. 6.0" Pitch Diameter
- M2500 Series Sprocket
- Sprocket location dependent on chain type
 Roller top sprocket locations vary from other chain types within the same series

Radius Flush Grid



Maintenance Information

1. Pre-Start Checklist

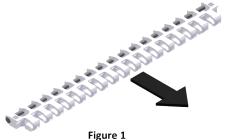
- Fasteners Some may have loosened during shipment. Re-tighten as required
- Inspect all splice points for proper wearstrip alignment
- Hand run a 48" long chain section through conveyor, both carryway and return paths, to check for binding.
- Verify motor rotation
- Verify chain direction is correct (See Figure 1)
- Guide Rail Check for proper product width before operation

Start-up/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 Normal 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 catenary sag reaches below indicator slot
 - ▶ Sprocket wear Look for excessive wear or hooked teeth
 - ► Reducer Look for leaking seals
- Wearstrip wear
 - ▶ Inside turn When edge of chain is 1/2" or less from inside edge of frame, it is time to replace wearstrip
- 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
 - o Look for chain binding at turns and copes in both carryway (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
 - o Longer reducer life
 - Longer bearing life
 - o Longer shaft life



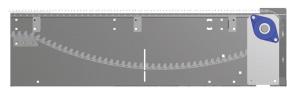


Figure 2

Warranty
MODULAR CONVEYOR EXPRESS WARRANTY
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.
1/3/2013
Made in the U.S.A.