

APPLICATION & ESTIMATION GUIDE

APPLICATION, SELECTION, & PRICING FOR POPULAR STANDARD CONVEYORS



HOW TO USE THIS GUIDE

1 CHOOSE YOUR PRODUCT.

Gravity Skatewheel Light Duty Rollers Heavy Duty Rollers Horizontal Belt Incline/Decline Belt Live Roller Accumulation Sortation Conveyor Accessories

2 ESTIMATE YOUR MATERIAL COST.

Quantity	Units (per ft or ea)	Item	Cost Per Unit	Total
1	6	Belt/TA	\$100	\$600
1	2	Ball Table/BTT	\$150	\$300
		Total Material	Cost: \$900	

3 ESTIMATE YOUR INSTALLED PRICE.

Example 1 - Quick Method					
Total Material Factor Total					
Material Cost x 2.2 \$900 2.2 \$1,980					

— OR —

Example 2 - Itemized Method					
Choose Required Items	Total Material				
Mechanical Installation (30% of Material Cost)	\$270				
Electrical Controls (30% of Material Cost)	\$270				
Field Wiring (Equal to Controls Cost or 30% of Material Cost)	\$270				
Shipping & Handling and Misc. (30% of Material Cost)	\$270				
	\$1,080				

Itemized Summary					
Factor	Total				
Material	\$900				
	\$1,080				
Total: \$1,980					

ESTIMATE YOUR TRANSIT TIME.



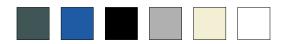
5 CONTACT AN INTEGRATION PARTNER.

Your Hytrol integration partner can provide you with a detailed proposal for a solution that meets your specific requirements. For additional information or to locate an integration partner, please visit www.hytrol.com.

6 REMEMBER.

This guide is intended to provide you with typical "ball park" information. Use it to get an idea if your concept warrants further investigation. Material costs include items that are normally supplied with a purchase. As you can imagine, a large variation can occur from one application to the next. Thus, pricing can vary greatly. Labor and Transportation estimates are also based on typical rates.

Hytrol conveyors come with a standard green powder paint coating. Hytrol offers five additional standard colors at no charge: blue, black, gray, beige, and white.



GRAVITY SKATEWHEEL

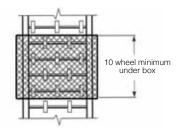
Manual operations, light product with firm bottom, and/or portable applications

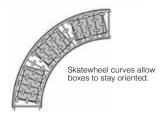
SKATEWHEEL:

- Various patterns are available.
- Items may be up to 6" over each side.
- There should always be a minimum of ten wheels under a box.
- Skatewheel curves allow boxes to stay oriented.
- Wheel rails may be used for floor loading.
- Suitable for items with a smooth, flat bottom such as:

TotesBeverage casesLumberBundlesCasesTrays

ITEM	APPROX. WEIGHT (POUNDS)	SLOPE (IN. PER 10 FT)	
Boxes, Wood	15 – 25	6-1/4"	
Boxes, Wood	25 – 50	5"	
Boxes, Wood	50 – 100	3-3/4"	
Boxes, Wood	100 – 250	3-1/8"	
Cartons	3 – 6	8-3/4"	
Cartons	6 – 12	7-1/2"	
Cartons	12 – 25	6-1/4"	
Cartons	25 – 30	5"	
Crates	_	5" – 6-1/4"	
Lumber	_	5"	
Pans, Tote	_	2-1/2" – 5"	





BALL CASTER:

- Boxes up to 100 lbs can be manually pushed.
- Boxes up to 200 lbs can be manually pushed using a ball transfer.

GRAVITY SKATEWHEEL & BALL CASTER COMPARISON CHART



SW



AW



Wheel Rails



FX200



KEY INDICATORS	S FOR TYPICAL	CONFIGURATION

Туре	Skatewheel	Skatewheel	Skatewheel Conveyor Rails	Extendable Skatewheel	Ball Transfer Table
Est. Cost/Foot	\$55	\$60	\$20	\$105	\$180
Application	Light	Light	Light	Light	Light

SPECIFICATIONS

Model

Est. Cost/Foot		\$55	\$60	\$20	\$105	\$180		
Application		Light	Light	Light	Light	Light		
SPECIFICATION	SPECIFICATIONS							
Lengths		5' Increments (5' & 10' bed sections)		10' Increments	12', 24' Increments	1' Increments		
Widths		12", 15", 18", 24"		N/A	18", 24"	12", 15", 16", 18", 20", 22", 24", 26", 28", 30", 34", 36", 40", 42"		
Capacity	10' ctr.	31 lbs/ft	10 lbs/ft		000 11 #1	135 lbs/ft		
Сарасну	5' ctr.	250 lbs/ft	83 lbs/ft	Up to 250 lbs/ft 200 lbs/ft		620 lbs/ft		
Frame	•	Steel	Aluminum	Steel	Steel	Steel		
Whee	I	1-15/16" dia.	1-15/16" dia.	1-15/16" dia.	1-15/16" dia.	1" dia. Ball Caster		
Conveyi Surfac		Galvanized Steel Wheels	Aluminum Wheels	Galvanized Steel Wheels	Galvanized Steel Wheels	Steel Ball Casters		
ACCESSORIES								
Permanent Supports		Optional	Optional	_	Included	Optional		
Temporary Supports		Optional	Optional	_	_	_		
Casters		Optional	Optional	_	Included	Optional		
Guard Ra	ails	Optional	Optional	_	Optional	Optional		

^{*}Estimates based on fully equipped conveyor 24" wide x 50" long.

RELATED ITEMS

End Stops

Curves

Floor Supports

Optional



Optional



Included



Optional



compliment gravity

and power units

Minimum pitch

required for

unassisted flow



Easy to install "H" type supports for permanent applications

Many adjustable height ranges available

Available with



Straight and curve

guards available

Keep product Many styles of stops available for power contained within conveyor surface and gravity conveyor

Fixed positions or Adjustable or fixed positions available

actuated styles available

Use stops at the end or intermediate points



Hand adjustable supports for temporary applications

Use with straight or curved sections

> For light duty conveyors

Configure the conveyor for the space you have

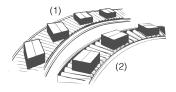
casters for portable conveyor sections

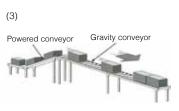
LIGHT DUTY GRAVITY ROLLERS

Manual operations, light product and/or irregular bottoms, side loading

- (1) Straight Roller Curves may not exit the curve in the same position.
- (2) Tapered Roller Curves will maintain better orientation through the curve.
- Although less expensive than powered conveyor, gravity does not provide a positive flow of packages. The degree of pitch needed on a gravity conveyor will depend on several factors:
 - The type of conveyor, roller, or skatewheel.
 - Bearings greased packed or lightly oiled. (Grease packed bearings roll slower.)
 - The weight of the package.
 - The quality of firmness of the package bottom.
- (3) Gravity Conveyors can be installed on a decline or horizontal.

ITEM	APPROX. WEIGHT (POUNDS)	SLOPE (IN. PER 10 FT)	
Baskets	_	5"	
Boxes, Wood	15 – 25	6-1/4"	
Boxes, Wood	25 – 50	5"	
Brick	_	5"	
Cartons	3 – 6	8-3/4"	
Cartons	6 – 12	7-1/2"	
Cartons	12 – 25	6-1/4"	
Cartons	25 – 30	5"	
Drums	150 – 300	2-1/2" - 3-3/4"	
Lumber	_	5"	
Pans, Tote	_	2-1/2" – 5"	





APPLICATIONS FOR ROLLER CONVEYORS:

Baskets Cases Lumber Totes Bricks Barrels













LIGHT DUTY ROLLER COMPARISON CHART						
		H	H	Ħ	Ħ	
Mc	odel	SSR	SAR	19SR	19GSR	
KEY INDICATORS	FOR TYPICAL CON	FIGURATION				
Ту	ре	1-3/8" dia. x 18 ga. Galvanized Roller	1-3/8" dia. x 18 ga. Aluminum Roller	1.9" dia. x 16 ga. Unplated Roller	1.9" dia. x 16 ga. Galvanized Roller	
Est. Co	ost/Foot	\$50	\$60	\$55	\$60	
Appli	cation	Light	Light	Medium	Medium	
SPECIFICATIONS						
Len	gths	5' Increments (5' & 10' bed sections)				
Wid	dths	12", 15", 18", 24"		16", 18", 20", 22", 24", 26", 28", 30", 34", 36", 40", 42"		
Capacity	10' ctr.	31 lbs/ft	10 lbs/ft	118 lbs/ft	118 lbs/ft	
Сараспу	5' ctr.	250 lbs/ft	83 lbs/ft	620 lbs/ft	620 lbs/ft	
Fra	ıme	Steel	Aluminum	Steel	Steel	
Ro	ller	1-3/8" dia.	1-3/8" dia.	1.9" dia.	1.9" dia.	
	reying face	Galvanized Steel Wheels	Aluminum Wheels	Galvanized Steel Wheels	Galvanized Steel Wheels	
ACCESSORIES						
Permanent Supports		Optional	Optional	Optional	Optional	
Temporary Supports		Optional	Optional	_	_	
Cas	sters	Optional	Optional	Optional	Optional	
Guard	d Rails	Optional	Optional	Optional	Optional	

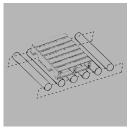
*Estimates based on fully equipped conveyor 24" wide x 50" long. **RELATED ITEMS** Floor Supports **Guard Rails** Curves Ball Transfer Gate Easy to install "H" Create convenient Gravity curves compliment gravity and power units Easily rotate or position products Keep product type supports for permanent applications passageway for personnel and equipment contained within by hand conveyor surface Transfer products to parallel or Minimum pitch Many adjustable Available for Adjustable or fixed required for height ranges most gravity and perpendicular positions available unassisted flow available powered conveyors conveyors Lift handles and Configure the Great for filling, Available with Straight and curve guards available locking mechanism conveyor for the taping, inspection and assembly casters for portable for easy and safe space you have conveyors sections operation

HEAVY DUTY LOAD APPLICATION:

When a load application is presented, three key questions will be asked:

- (1) What does the conveying surface (bottom of the product) look like?
- (2) What is the load weight?
- (3) Will the pallet runners be parallel or perpendicular to the conveyor rollers?

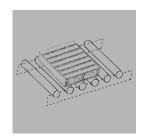
While pallets may appear to be similar, they are not. Careful attention must be given to the pallet bottom deck. Perpendicular runners are always the best. Parallel runners should be avoided. If runners are in both directions, the pallet could be used bi-directly (i.e. placed on the conveyor either way).







PARALLEL



OR ROTH

Horizontal Gravity

Many pallets are moved on horizontal gravity roller conveyors simply by hand pushing.

Decline Gravity

Pallets moving on decline conveyors, however, present different problems and usually require special braking to control the speed.

HEAVY DUTY GRAVITY ROLLERS COMPARISON CHART						
		H	H	Ħ	H	
Mode	el	199SR	20SR	25SR	36SR	
KEY INDICATOR	RS FOR TYPIC	CAL CONFIGURATION				
Туре		1.9" dia. x 9 ga. Unplated Roller	2.0" dia. x 12 ga. Unplated Roller	2.5" dia. x 11 ga. Unplated Roller	3.5" dia. x .300 wt. Unplated Roller	
Est. Cost,	/Foot	\$85	\$65	\$120	\$200	
Applicat	tion	Heavy	Heavy	Heavy	Heavy	
SPECIFICATION	S					
Length	ns	5' Increments (5' & 10' bed sections)				
Width	s	16", 18", 20", 22", 24", 26", 28", 30", 34", 36", 40", 42"		16-1/4", 18-1/4", 20-1/4", 22-1/4", 24-1/4", 26-1/4", 30-1/4", 34-1/4", 36", 40-1/4", 42-1/4", 46-1/4", 50-1/4", 54-1/4", 58-1/4"		
Capacity	10' ctr.	118 lbs/ft		288 lbs/ft	600 lbs/ft	
Сараспу	5' ctr.	620	lbs/ft	1620 lbs/ft	2500 lbs/ft	
Frame	е	Steel	Steel	Formed Steel	Structural Channel	
Rolle	r	1.9" dia.	2.0" dia.	2.5" dia.	3.5" dia.	
Convey Surface	ing e	Unplated Steel Rollers	Unplated Steel Rollers	Unplated Steel Rollers	Unplated Steel Rollers	
ACCESSORIES						
Permanent Supports		Optional	Optional	Optional	Optional	
Caster	rs	Optional	Optional	Optional	Optional	
Guard R	tails	Optional	Optional	Optional	Optional	
End Sto	pps	Optional	Optional	Optional	Optional	

^{*}Estimates based on fully equipped conveyor 24" wide x 50" long.

low for a built in

guard rail

Keeps product contained in section

Configure the conveyor for the space you have

RELATED ITEMS Curves Rollers Set Low Floor Supports Guard Rails Stops Easy to install "H" Gravity curves compliment gravity and power units Keep product contained within Fixed position or actuated styles available Great for use with type supports manual side entry for permanent applications points conveyor surface Minimum pitch required for unassisted flow Many adjustable height ranges available Optional rollers set Use stops at the end or intermediate

Available with

casters for portable conveyors sections

Adjustable or fixed

positions available

Straight and curve

guards available

points

Easily relocated to

adapt with you

HOW TO DETERMINE BELT REQUIREMENTS:

- (1) Characteristics of the product handled (Shape, size, condition of product, etc.)
- (2) Prevailing atmospheric conditions (Temperature, environment, current, etc.)
- (3) Operations to be performed (Assembly, shift in orientation, etc.)

ROLLER RED REIT CONVEYOR

This conveyor increases the amount of load which can be conveyed. This is because the belt is now traveling over rollers, which have a very low coefficient friction.





SLIDER BED BELT CONVEYOR

This type of conveyor is the most widely used package handling power conveyor. Its solid steel bed construction is inexpensive, simple, quiet, and easy to install. It is frequently used for assembly operations and general transportation.

TIPS FOR PACKAGE HANDLING:

- Boxes moved by belt conveyors should not exceed the overall width of the conveyor.
- Boxes of poor quality should not exceed the width of the belt since box edges may drag.

HORIZONTAL BELT COMPARISON CHART							
	H	H	H	H	Ħ		
Model	TA	TR	TL	SB	RB		
KEY INDICATORS FOR TYPIC	CAL CONFIGURAT	TON					
Туре	Belt sliding on formed box bed	Belt sliding on formed box bed w/ troughed sides	Belt sliding on formed box bed	Belt sliding on steel pan inserted in channel frame	Belt sliding on rollers inserted in channel frame		
Est. Cost/Foot	\$100	\$145	\$165	\$145	\$145		
Application	Light	Light	Medium	Medium	Heavy		
SPECIFICATIONS							
Lengths	6' Min. – 102' Max. (5' Increments)	6' – 51' (5' Increments)	7' - 102' (5' Increments)	12' - 102' (5' Increments)			
Widths	10", 12", 14", 16", 18", 20", 22", 24", 28"	8", 10", 12", 14", 18", 20", 22", 26", 32"	30", 36", 42"	18", 24", 30"	16", 18", 20", 22", 24", 26", 28", 30", 34", 36", 40", 42"		
Capacity	75 lbs/ft	75 lbs/ft	100 lbs/ft	100 lbs/ft	255 lbs/ft		
Frame	Steel Slider Bed	Steel Slider Bed	Steel Slider Bed	Channel Frame	Channel Frame		
Conveying Surface	Black Belt Brushed both sides	Black Belt Brushed both sides	Black Belt Brushed both sides	Black Belt Brushed both sides	Black Belt Brushed both sides		
ACCESSORIES							
Floor Supports	Optional	Optional	Optional	Optional	Optional		
Multi-Level Supports	Optional	Optional	Optional	Optional	Optional		
Ceiling Supports	Optional	Optional	Optional	Optional	Optional		
Guard Rails	Optional	Optional	Optional	Optional	Optional		
Casters	Optional	Optional	Optional	Optional	Optional		
Alternate Belting	Optional	Optional	Optional	Optional	Optional		

*Estimates based on fully equipped conveyor 24" wide x 50" long. **RELATED ITEMS** Electrical Portables Belting Guard Rails Inclines Controls Configured with roughtop belt Keep product contained within conveyor surface Portable units can be stored when not Start/stop, forward/ reverse push button Many belts for and transition to specific applications in use stations horizontal Convey packages, parts, and small Use with mezzanines High grip, low grip, cleanable, sanitary Adjustable or fixed Variable speed or overhead lines positions available controls objects Magnetic starters Reversing for use as an incline or decline Use one conveyor for many applications Many widths Transitions hardware with overload available to horizontal sections protection

TIPS FOR INCLINE/DECLINE APPLICATIONS:

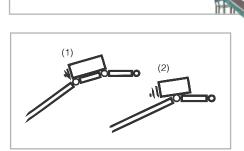
It takes more effort when moving boxes up from a horizontal unit. The amount of effort or power it takes depends on the degree of incline and the total load on the conveyor. For most applications the maximum angle for an incline conveyor is 20°. If a 20° incline is exceeded, the following problems occur:

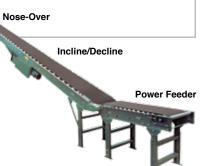
- Boxes may slip back down the conveyor.
- Drive capacity may be exceeded.
- Boxes may tumble.

A power feeder should typically be 2.5 times as long as the belt width. Power feeders are best powered by a chain attached to the incline conveyor. This is called **chain driven power feeder**.

A **nose-over** allows smooth transition from the horizontal to the decline or the incline to the horizontal. It is available as a standard item on most incline conveyors and may require either a single or double nose-over.

- (1) Double nose-over adjusts 0° 30°.
- (2) Single nose-over adjusts 0° 15°.





ADDITIONAL CONSIDERATIONS FOR INCLINES:

- Boxes should not be wider than the conveyor.
- Small boxes may tumble at the transfer point of a feeder.
- It is easy to drive the feeder at a different speed than the incline by using a different size sprocket. This may be done to help pull a gap in the line of boxes or prevent bridging or staggering.
- Depending on the load and/or speed of the conveyor, some declines will drift after they
 have stopped.
- Brake motors are required on all incline and decline conveyors.

INCLINE/DECLINE BELT COMPARISON CHART						
	FEE	FAE				
Model	SBI	RBI				
COMPARATIVE PRICING FOR TYPICA	L CONFIGURATION					
Туре	Incline/decline belt sliding on steel pan insert in channel frame	Incline/decline belt sliding on rollers in the channel frame				
Est. Cost/Foot	\$190	\$190				
Application	Medium	Heavy				
SPECIFICATIONS						
Lengths		43' - 10" Maximum ements)				
Widths	18", 2	4", 30"				
Capacity	100 lbs/ft	225 lbs/ft				
Frame	Steel Slider Bed	Steel Slider Bed				
Conveying Surface	Rough Top Belt	Rough Top Belt				
ACCESSORIES						
Floor Supports	Optional Optional					
Ceiling Supports	Optional	Optional				
Guard Rails	Optional	Optional				

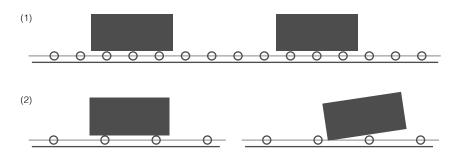
^{*}Estimates based on fully equipped conveyor 24" wide x 50" long.



LIVE ROLLER CONVEYOR:

A series of rollers over which objects are moved by the application of power to all or some of the rollers. The power transmitting medium is available as **belting**, **chain**, or **shaft drive**.

It is possible to stop or hold a box momentarily on a live roller conveyor. More than one or two boxes cannot be accumulated due to the excessive drive pressure. To accumulate boxes, an accumulating conveyor is needed.



GUIDELINES FOR BOX WIDTHS:

- The box width on roller conveyors should never exceed the width of the rollers.
- The box should be at least 2" narrower than the between rail width.
- Boxes should always be supported by at least three rollers. (see figure 1)
- If less than three rollers are under the box, it will tumble. (see figure 2)
- Determine the roller centers required by measuring the dimensions of the smallest box to be place on the conveyor.

LIVE RO					
		To the second	F	FYAT	A
Мо	del	190-NSP	ABLR	25-CRR	190-E24
KEY INDIC	CATORS FOI	R TYPICAL CONFIGURA	TION		
Ту	ре	Line shaft/spool driven live roller	Flat belt driven live roller	Roll to roll chain driven roller	24-Volt direct drive roller
Est. Co	st/Foot	\$165	\$175	\$315	\$300
Appli	cation	Medium	Medium	Heavy	Medium
SPECIFICA	ATIONS				
Len	gths	5' Minimum, 100' Maximum (5' Increments)	10' Minimum, 100' Maximum (5' Increments)	5' Minimum, 100' Maximum (1' Increments)	2' Minimum, 10' Maximum (6" Increments)
Wic	iths	18", 24", 30"	16", 18", 20", 22", 24", 26", 28", 30", 34", 36", 40", 42"	22-1/4", 30-1/4", 50-1/4", 54-1/4", 58-1/4"	9", 11", 13", 15", 17", 19", 21", 23", 25", 27", 31", 33", 37", 39"
Conneit	10' ctr.	15 lbs/roller	200 lbs/ft	300 lbs/ft	16 – 36 lbs/ft
Capacity	5' ctr.	15 ibs/folier	200 105/11	1000 lbs/ft	16 – 36 IDS/II
Fra	me	Steel Roller Bed	Steel Roller Bed	Steel Roller Bed	Steel Roller Bed
Ro	ller	1.9" dia.	1.9" dia.	2.5" dia.	1.9" dia.
Conv Surf	eying face	Galvanized Steel Rollers	Galvanized Steel Rollers	Unplated Steel Rollers	Galvanized Steel Rollers
ACCESSO	RIES				
Floor Si	upports	Optional	Optional	Optional	Optional
Multi-Leve	Supports	Optional	Optional	_	Optional
Ceiling S	Supports	Optional	Optional	_	Optional
Guard	d Rails	Optional	Optional	Optional	Optional
Cas	ters	Optional	Optional	_	Optional
End Stops		Optional	Optional	_	Optional

*Estimates based on fully equipped conveyor 24" wide x 50" long. **RELATED ITEMS** Stops Guard Rails Ceiling Hanger Controls Curves Fixed position for actuated styles Save space by hanging conveyors overhead Start/stop, forward/ reverse push button stations Keep product contained within Powered or slave driven curves available conveyor surface Minimum pitch required for Use stops at the Adjustable or fixed Adjustable with fully threaded rods Variable speed end or intermediate positions available controls unassisted flow points Configure the conveyor for the space you have Magnetic starters with overload Normally up position or normally down Straight and curve guards available Available for most conveyors position protection

ACCUMULATING FEATURES:

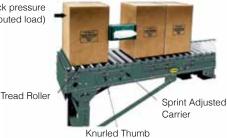
Accumulating conveyors are similar to live roller conveyors, except the drive pressure can be adjusted to a minimum or even eliminated.

Many factors affect the proper operations of accumulating conveyors, such as speed, box weight, and box size. Zero pressure accumulation conveyors may be either mechanically, pneumatically, or electronically operated. Electronically operated units have no minimum weight requirement and use no sensing rollers.

Often, an application requires accumulation of a long line of boxes into one of the following types of operation:

- Sortina
- Strapping
- Palletizing
- Staging

Minimum back pressure (2% of the total distributed load)



Adjusting Nut

TYPES OF ACCUMULATION:

- Minimum Pressure has enough drive to the tread rollers to move the package. The amount of back pressure on this type of conveyor allows a minimum of 2% of the total live load on the conveyor.
- Zero Pressure accumulates products with no product touching. This is done by using various methods to completely remove all driven pressure is select zones on the conveyor. These zones vary in length according to the product being conveyed.

ACCUMULATION C	ACCUMULATION COMPARISON CHART						
		F	FIFT				
Model	190-ACC	190-ACZ	ABEZ	190-E24EZ			
KEY INDICATORS FOR	TYPICAL CONFIGURA	TION					
Туре	V-Belt driven minimum pressure accumulation	Flat belt driven minimum pressure	Flat belt driven zero pressure	24-Volt direct drive zero- pressure accumulation			
Est. Cost/Foot	\$190	\$200	\$275	\$360			
Application	Medium	Medium	Medium	Medium			
SPECIFICATIONS							
Lengths	5' Minimum, 100' Maximum (5' Increments)	10' Minimum, 100' Maximum (5' Increments)	10' Minimum, 100' Maximum (24" or 30" zone length increments)	10' Minimum, 100' Maximum (12", 18", 24", 30", 36" zones)			
Widths	16", 18", 20", 22", 24", 26", 28", 30", 34", 36", 40", 42"	18", 24"	18", 24"	9", 11", 13", 15", 17", 19", 21", 23", 25", 27", 31", 33", 37", 39"			
Capacity	150 lbs/ft	200 lbs/ft	150 lbs/ft	20 – 41 lbs/ft			
Frame	Steel Roller Bed	Steel Roller Bed	Steel Roller Bed	Steel Roller Bed			
Roller	1.9" dia.	1.9" dia.	1.9" dia.	1.9" dia.			
Conveying Surface	Galvanized Steel Rollers	Galvanized Steel Rollers	Galvanized Steel Rollers	Galvanized Steel Rollers			
ACCESSORIES							
Floor Supports	Optional	Optional	Optional	Optional			
Multi-Level Supports	Optional	Optional	Optional	Optional			
Ceiling Supports	Optional	Optional	Optional	Optional			
Guard Rails	Optional	Optional	Optional	Optional			
Casters	Optional	Optional	_	Optional			
End Stops	Optional	Optional	_	Optional			

^{*}Estimates based on fully equipped conveyor 24" wide x 50" long.

RELATED ITEMS Guard Rails Ceiling Hanger Stops Controls Curves Start/stop, forward/ reverse push button stations Fixed position for actuated styles Keep product contained within conveyor surface Save space by hanging conveyors overhead Powered or slave driven curves available Minimum pitch Use stops at the Adjustable or fixed positions available Adjustable with fully threaded rods Variable speed controls required for end or intermediate unassisted flow poi nts Configure the Normally up position or normally down Magnetic starters Straight and curve guards available Available for most conveyor for the space you have with overload conveyors position protection

SORTATION

Wide range of sortation rates, dual-side divert capacity, multiple angle diverts.

PROSORT 400 ELITE:

The ProSort 400 Elite is a high-speed sliding shoe sorter designed for applications where product diverting needs to be both positive and gentle.

- High-efficiency gearmotor
- Wrap-around shoe design
- Integrated induction conveyor
- Pinch-resistant shoe design
- Bidirectional diverts available
- Sealed lubricated carrying chain
- Continuous polyurethane bearing track
- Electric and pneumatic divert switch options
- ProLogix Plus controls with Plug-N-Go wiring
- 22° and 30° diverts available.

PROSORT MRT:

The Model ProSort MRT is a narrow belt sorter for mid-range rates. With the 90° MRT, rollers pop up between the belts to transfer items at a right angle. For 30° sortation, diverter wheels pop up between belts to transfer items.

- Individual pnuematic belt take up for 90°
- High strength, low stretch belt for 90°
- Bidirectional diverting for 90°
- Precise product tracking
- High efficiency shaft mounted drive
- ProLogix Plus controls with Plug-N-Go wiring

PROSORT SC:

The ProSort SC is a belt-driven sortation conveyor using pivot wheel diverters for sorting products. The SC series provides a reliable method of tracking packages to the divert stations. Takeaway spurs may be skatewheel-type or powered-type slaved from the main sorter. Packages with a minimum of 6" wide by 9" long are best suited for the SC. Diverters should be positioned at infeed of two-sided sorters to position packages for proper diverting.

- Bidirectional 30° sorting
- Pneumatic belt tensioner
- Elexible divert centers
- · High efficiency shaft mounted drive
- Right, left, and two-sided diverts available
- ProLogix Plus controls with Plug-N-Go

EXTENDA PUSHER:

The Extenda Pusher is a dual-stage 90° pusher designed for use on slider and roller bed conveyors where sorting of cartons or totes is required.

- Dual stage to reduce footprint
- Right and left hand sorting for 90°
- Uses less space
- Up to 50 cartons per minute

SORTATION COMPAR	RISON CHART			
		F		15
Model	ProSort 400 Elite	ProSort MRT	ProSort SC	Extenda Pusher
KEY INDICATORS FOR TY	PICAL CONFIGURATION			
Туре	Shoe sorter	Narrow belt sorter with pop-up transfer	Belt with pivot wheel sorter	Dual stage 90° pusher
Est. Cost/Foot	\$1,700	\$540	\$410	\$200 ea.
Est. Cost/Divert	\$2,500	\$4,500 - 30° \$6,600 - 90°	\$5,900	\$5,300
Application	High Rate	Medium Range	Medium Range	Low Rate
SPECIFICATIONS				
Widths	Conveying Surface 15", 21", 27", 33", 39"	OAW 18", 21", 24", 27", 30"	OAW 18", 24", 30", 36"	
Capacity	100 lbs Maximum load	75 lbs Maximum load	75 lbs Maximum load	75 lbs Maximum load
Frame	Formed Steel	Formed Steel	Formed Steel	Formed Steel
Rate	350 CPM*	120 CPM* - 90° 200 CPM* - 30°	100 CPM*	50 CPM*
Speed	700 FPM*	350 FPM*	300 FPM*	150 FPM*
Carton Gap	10"	30" - 90° 12" - 30°	12"	30"
Conveying Surface	Anodized Aluminum Slats or Steel tubing	Narrow Belts	Wide Belt	Aluminum Pusher Face
OPTIONAL EQUIPMENT				
	ProLogix Control Package	ProLogix Control Package	ProLogix SC Control Package	ProLogix Control Package
	Plug-N-Go Wiring	Plug-N-Go Wiring	Plug-N-Go Wiring	Plug-N-Go Wiring
FLOOR SUPPORTS				
	Adjustable MHS Type w/Knee Braces	Adjustable MS Type	Adjustable MS Type	Adjustable MSN Type

^{*}Estimates based on fully equipped model. Actual rates and gap depend upon carton size, conveyor width, and/or induction capacity.

COMPARISON CHARTS

CONVEY	CONVEYOR SUPPORTS & CASTERS							
		H	H	H	1	5		
		LS	MS	HS	Cas	ters		
KEY INDIC	CATORS FOR	R TYPICAL CONFIGURA	TION					
Туре		Adjustable floor supports for permanent installation	Adjustable floor supports for permanent installation	Adjustable floor supports for permanent installation	Permanent suppor can be configured accept casters			
Est.	Cost	\$60	\$60	\$100 4" dia. \$130		6" dia. \$200		
Appli	cation	Light	Medium	Heavy	Portable			
SPECIFIC	ATIONS							
For Us	For Use With gravity & powered gravity & powered gravity		Fits heavy duty gravity & powered conveyors	4" or 6", rigid or swivel, steel or rubber, wheel brakes				
Hoight	Min.	4-13/16"	5-3/4"	4-3/8"	4" dia.	5-7/8"		
Height	Max.	106-11/16"	107-11/16"	174"	6" dia.	7-1/2"		
Cap	acity	1500 lbs max.	1500 lbs max.	4000 lbs max.	-	_		

CONVEYOR SUPPORTS & CASTERS							
	T #		1				
		TS	PT		CH		
KEY INDIC	CATORS FOR	R TYPICAL CONFIGURATION					
Ту	rpe	Adjustable floor supports for temporary installation (No tools required) Adjustable floor supports for permanent installation on multi-level system		Adjustable support for overhead installation			
Est.	Cost	\$50	2 Tier \$210	3 Tier \$295	\$100		
Appli	cation	Temporary	Multi-level		Ceiling hanger		
SPECIFICA	ATIONS						
For Us	se With	Light duty models	Most r	nodels	Most models		
Llaiabt	Min.	12"	48", 6	0", 72"	00" 100" 144"		
Height	Max.	110"	Uprights		96", 120", 144"		
Cap	Capacity 350 lbs 4500 lbs/set		lbs/set	1500 lbs/set			

GUARD RAILS							
	Adjustable Channel	Type "A" Angle	Type "B" Angle	Fixed Channel			
KEY INDICATORS F	OR TYPICAL CONFIGURA	TION					
Туре	Adjustable channel guard rails	Fixed angle guard rail (Vertical surface facing inward)	Fixed angle guard rail (Vertical surface facing inward)	Fixed channel guard rail (Vertical surface facing inward)			
Est. Cost/Foot	\$10	\$5	\$7	\$15			
Application	Medium	Medium	Medium	Medium			
SPECIFICATIONS	0						
For Use With	Most belt and roller conveyors	Most roller conveyors					
Curved Sections	Available	Available	_	Available			

FLOW CONTROL						
			27	T	- 4	9
	Angle End Stop	Terminal	Dead Type Stop	Air Operated Stop	Gates	Turning Wheels
KEY INDICATORS FOR	R TYPICAL CON	FIGURATION				
Туре	Fixed angle for placement in many locations along length	Flat plate for placement at the end point	Skid plate for placements in many locations along length	Roller stop for placement in many locations along length	Manual Gate	Non- powered wheel
Est. Cost	\$25	\$25	\$30	\$1100	\$100 (less conveyor)	\$135
Application	Medium	Medium	Light	Medium	All light and medium duty gravity conveyor	All light and medium duty gravity conveyor
SPECIFICATIONS						
For Use With	All roller models	Many roller models	Light duty roller and skatewheel models	Many gravity roller models, limited powered roller models	Passageway for personnel and equipment	Merging and guiding applications

COMPARISON CHARTS

ELECTRICAL CONTROLS							
	Push Button Stations	Disconnect	Motors	Magnetic Starter	Variable Speed Drive		
KEY INDICATORS	FOR TYPICAL CON	FIGURATION					
Туре	Push button stations	Safety disconnect	Electrical motors UPGRADE	Magnetic starter	AC Variable speed drives		
Est. Cost	\$110	\$135	\$185	\$850	\$1,250		
Application	Start-Stop, Fwd-Rev-Stop, Up-Down-Stop	30 AMP, 3 pole disconnect	AC Motors with C-Face	Overload protection device	Programmable electronic speed controller		
SPECIFICATIONS							
Conveyor Models		А	II Powered Conveyor	rs			
For Use With	110V control voltage	Single or 3 phase	110V, 200V, 208V, 230V, 460V, 575V	Single or 3 phase	3 phase motors, single or 3 phase controller input		
H.P.	_	_	1/2 — 2	1/2 — 2	1/2 — 2		

CURVES							
		A Contract of the Contract of		F			
	Roller	Skatewheel	V-Belt	Line Shaft			
KEY INDICATORS FOR TYPICAL CON	FIGURATION						
Туре	Non-powered gravity roller curve	Non-powered gravity skatewheel curve	V-belt driven live roller curve	Line shaft driven live roller curve			
Est. Cost	\$500	\$350	\$3,000	\$1,900			
Application	Medium	Light	Medium	Medium			
SPECIFICATIONS							
Degree of Curve	90°, 60°, 45°, 30°	90°, 60°, 45°, 30°	90°	90°			
Rollers/Wheels	Straight or tapered rollers	Skatewheels	Straight or tapered rollers	Straight or tapered rollers			
Conveying Surface	Steel or aluminum rollers	Steel or aluminum rollers	Galvanized steel rollers	Galvanized steel rollers			

DRIVE CONFIGURATION OPTIONS							
	Center Drive	Unified Drive	Power Feeder	Take-Up	Slave Drive		
KEY INDICATORS F	FOR TYPICAL CONF	IGURATION					
Туре	Power train mounted in the center of the conveyor length	Center drive shaft mounted with motor and reducer	Horizontal transition conveyor for inclines/declines	Auxiliary belt take-up	Replaces power train with connection		
Est. Cost	\$690	\$820	\$1,425	\$525	\$600		
Application	Alternate to power trains located at the end of the conveyor	Provides power without chain and sprocket	Transition conveyor for use with inclines/ declines	Provides additional belt take-up for longer belt conveyors	Allows one conveyor to share the power train of another		
SPECIFICATIONS							
For Use With	Most belt conveyors	Most powered conveyors	Most belt conveyors	Most belt conveyors	Most belt conveyors		

BELTING						
	Friction Surface	Trackmate	White Polymate	Trackmate Roughtop	Polymate Roughtop	Glide Top
KEY INDICATORS FO	R TYPICAL CON	FIGURATION				
Туре	Ultimate 140 BBS Belt	Black Trackmate 533 COS- PVC	White Polymate 100 RMP- COS	Black Trackmate 120 COS- PVC	Brown Polymate Roughtop w/ Nitrile Cover	Tan Glide Top Belt
Est. Cost/Foot	\$0/ft add on	\$12/ft add on	\$17/ft add on	\$15/ft add on	\$30/ft add on	\$37/ft add on
Application	General purpose package handling	Application where belt tracking may be difficult	FDA and USDA approved	General purpose incline belt with gripping surface	High grip incline belt for harsh application	Use when diverting products on and off the conveyor is required
SPECIFICATIONS						
For Use With	Standard on most horizontal slider bed and roller conveyors	Most horizontal belt conveyors	Most horizontal belt conveyors	Standard on most incline and decline conveyors	Most incline/ decline conveyors where angle is great or product is wet	Most horizontal belt conveyors. Nylon top is low friction.

Contact your Hytrol Integration Partner for more info:



PHONE 800.500.8256 www.flostor.com

www.hytrol.com

