

Hinged Steel Belt Assemblies Conventional Belts & Flat Top Belts



Conventional Belts

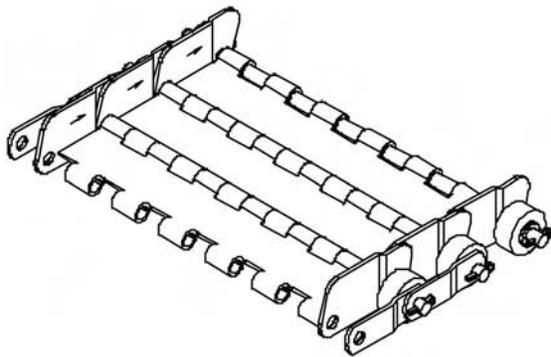
The conventional belt's aprons are recessed below the hinge loops of the belt. This design results in a raised surface at the point where the belt loops are mated and allows a taller cleat. This radial surface also acts as a short cleat that helps carry product up inclines. Conventional belts are used for most applications.

Flat Top Belts

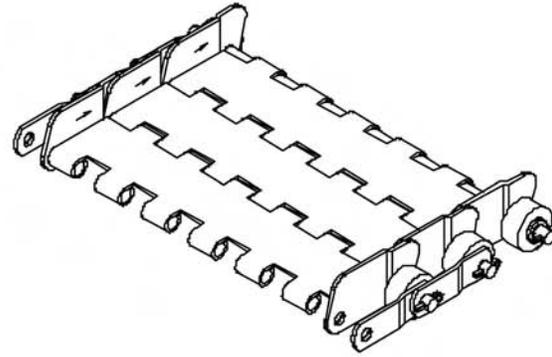
A flat top belts hinged loops are mated together on the underside of the belt resulting in a smooth or flat belt surface. Flat top belts are used primarily for two applications:

1. Heavy impact applications – Since the belts loops are hidden under the belt, they can't be damaged with impact.
2. Small products like fastener or screws – The raised surface of a conventional belt causes a natural pinch point between the loops at the inclining curve. As a conventional belt travels through the inclining curve, the distance between the leading loop and the following loop is reduced causing a natural pinch point. If product does pinch between these two points they may damage or they may release from the pressure resulting in a potential safety hazard. Since a flat top belt does not have belt loops on its surface, this pinch point is eliminated.

Conventional Belt Assembly



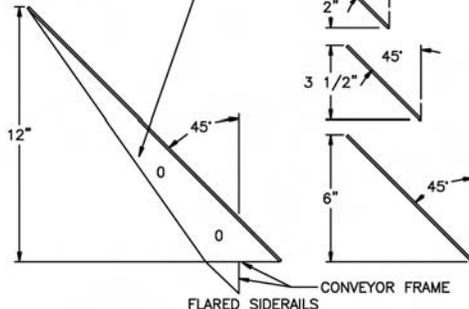
Flat Top Belt Assembly



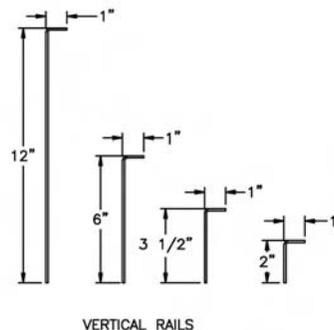
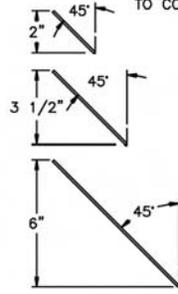
Hinged Steel Belt Siderail Options



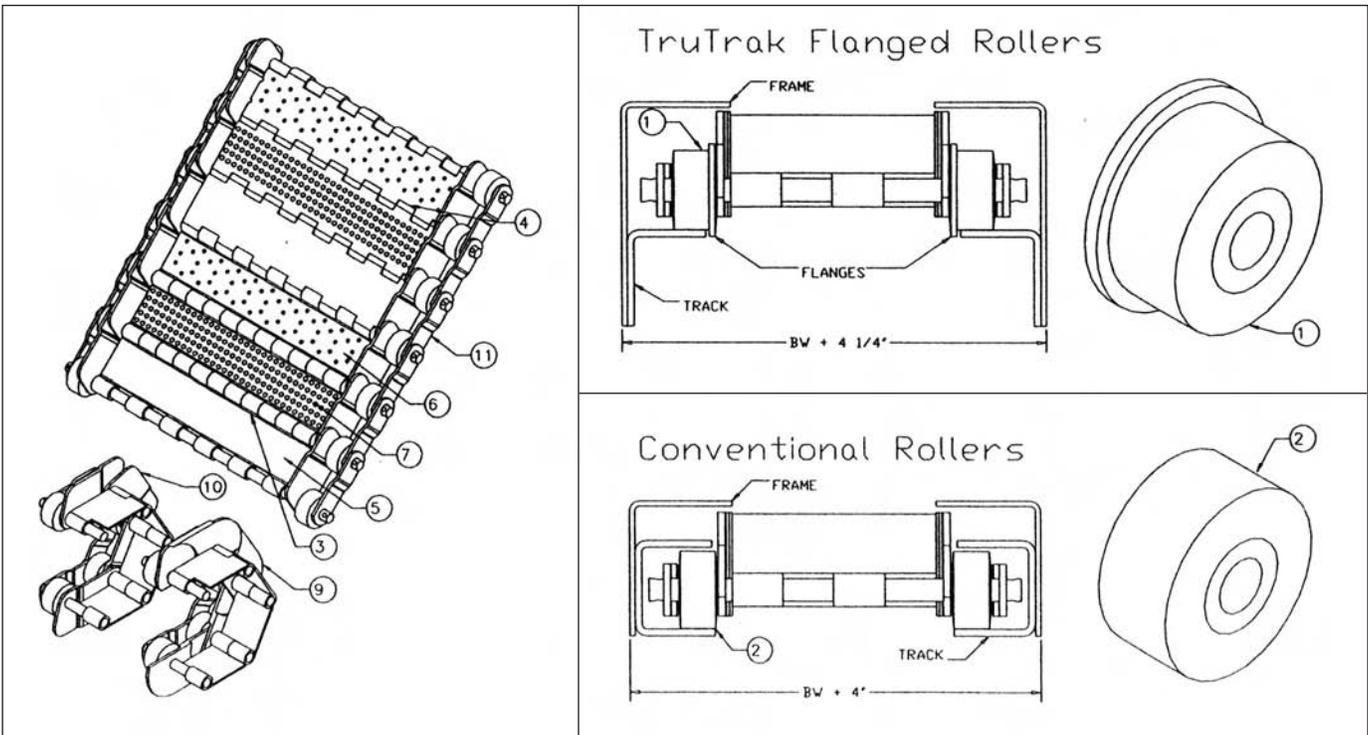
GUSSETED TO FRAME
STANDARD FOR 12" FLARED RAILS
OPTIONAL ON OTHER FLARED RAILS



NOTE: HINGED STEEL BELT
SIDERAILS ARE WELDED
TO CONVEYOR FRAME

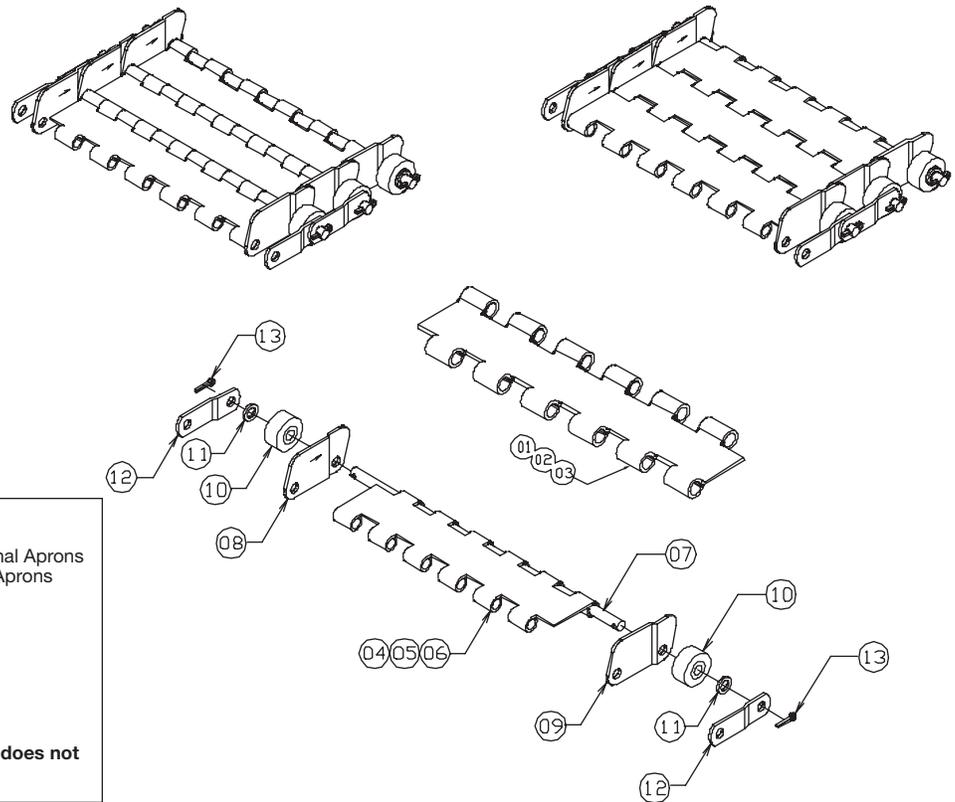


Option Description	Application
ROLLERS	
1. TruTrak Flanged Rollers	TruTrak flanged rollers eliminate the side to side movement of the belt within the belt track. Because the belt can't sway off its track, it can't rub against the conveyor's frame virtually eliminating potential wear to the conveyor's frame, and the belt's axles, sidewings and cotter pins. Since TruTrak can't sway off its track, it is recommended for use in long run, heavy load applications. TruTrak's features also made it the perfect choice in applications where prevention of downtime is a priority.
2. Conventional Steel Rollers	These economical rollers are the industry standard. Conventional steel rollers are used in most applications.
BELT TOPS	
3. Conventional Belt Top	Standard design – Conventional belt hinge loops are mated together on the top of the belt. This design results in a raised surface at the point where the belt loops are mated.
4. Flat Top Belt	Flat top belt hinge loops are mated together on the under side of the belt resulting in a smooth or flat belt surface. Because this surface eliminates the pinch point between the hinge loop and the cleats its ideal to convey small objects such as fasteners or screws.
BELT TYPES	
5. Plain Belts	Plain belts are used for moving almost everything in non-liquid applications.
6. Pimpled Belts	A pimpled surface adds texture to help scrap resist adhesion to the belt. Pimpled belts are used primarily in oily applications.
7. Perforated Belts	A 5/32" hole is punched into the belt so liquids can flow through the belt and drain back to an accumulation tank.
8. Pimpled/Perforated	Pimpled and perforated belts are used when both adhesion of parts and liquid recovery are both a factor. (Not Shown)
SIDE WINGS	
9. Radial Side Wings	Radial side wings eliminate the gap between the wings. Radial wings are used when jamming of small parts may be a problem.
10. Conventional Side Wings	Conventional side wings help contain the product on the belt and help prevent side jams.
SIDEBARS	
11. Outside Sidebars	Sidebars are used when more belt pull is necessary. The related chain pull all most doubles to 3,000# when sidebars are attached. Sidebars are standard for conveyors wider than 24" and longer than 20'.



REPLACEMENT Belt Parts

Model #720, Model 721, Model #723, Model #724, Model #725, Model #726 and Model #727

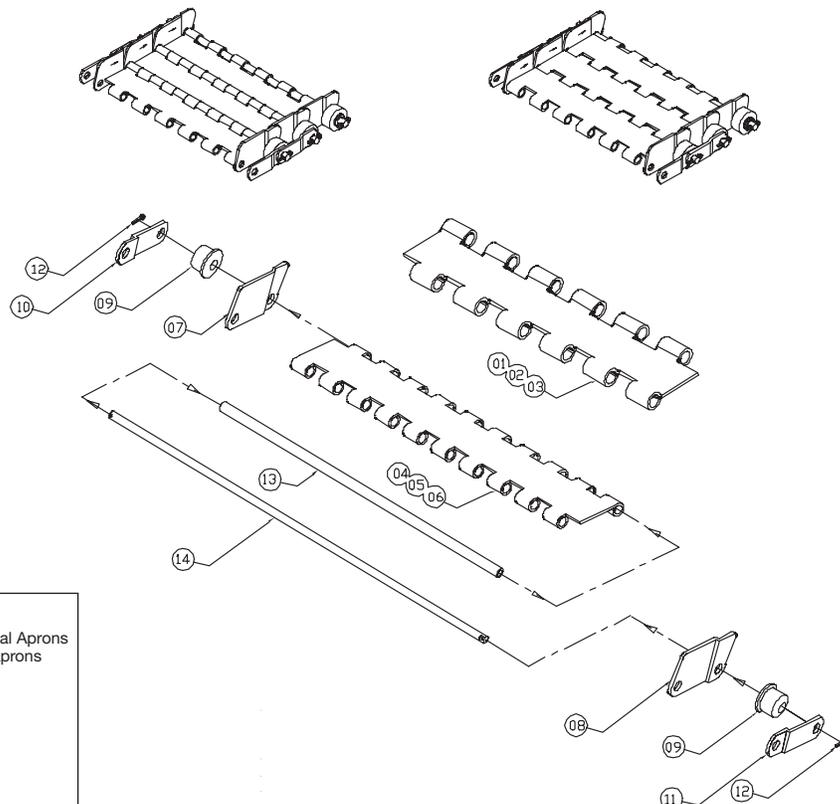


PN Description

- 01-03 Plain, Pimpled, Perforated Coventional Aprons
- 04-06 Plain, Pimpled, Perforated Flat-Top Aprons
- 07 Axle
- 08 Left Sidering
- 09 Right Sidering
- 10 Rollers
- 11 Bushings
- 12 Outside Sidebar
- 13 Cotter Pins

Note: Bushings are only used when belt does not have outside sidebars

Model #750 and Model #751 Replacement Belt Parts



PN Description

- 01-03 Plain, Pimpled, Perforated Coventional Aprons
- 04-06 Plain, Pimpled, Perforated Flat-Top Aprons
- 07 Left Sidering
- 08 Right Sidering
- 09 Rollers
- 10 Left Outside Sidebars
- 11 Right Outside Sidebars
- 12 Cotter Pins
- 13 Impact Tube
- 14 Axle

Hinged Steel Belt Options



(See Illustrations on Pages 144-145)

Item #	Option Description	Application
Drive Locations		
1	Top Mount R or L Side	Top mounted Right and Left sides are the standard drive locations.
2	Side Mount R or L Side	Side mounts are used when overhead clearance is limited.
Belt Options		
3	Conventional Top Belts	Standard design — Conventional belt hinge loops are mated together on the top of the belt. This design results in a raised surface at the point where the belt loops are mated. Conventional tops are used in most applications.
4	Flat Top Belts	Flat top belt hinge loops are mated together on the under side of the belt resulting in a smooth or flat belt surface. This flat surface eliminates the pinch point between the hinge loop and the cleats. Flat top belting is often used to convey small objects such as fasteners or screws and in impact applications.
5	Plain Belts	Used for moving almost everything in non-liquid situations.
6	Pimpled Belts	A pimpled surface adds texture to help scrap resist adhesion to the belt. Used primarily in oily applications.
7	Perforated Belts	A 5/32" hole is perforated into the belt so liquids can flow through the belt and drain back to the accumulation tank. Drainage is 20 GPM/sq. ft. of belt of a watery-based liquid.
8	Outside Sidebars	Sidebars are used when more chain pull is necessary. The rated chain pull almost doubles to 3,000# when sidebars are attached. Sidebars are standard for conveyors wider than 24" and longer than 20'.
9	Conventional Sidewings	Sidewings help contain the product on the belt and help prevent side jams.
10	Radial Sidewings	Radial sidewings are used instead of the standard conventional sidewings when jamming of smaller parts may be a problem. Jamming usually occurs in the gap between the wings as the belt is going through a curve. Our exclusive interlocking design virtually eliminates this gap.
11	Keystock over Sidewings	Keystock is a piece of steel welded to the top of the frame. It helps to prevent small or thin scrap from jamming between the top of the sidewings and the frame top.
12	Impact Bars-Bottom Mounted	Impact bars are 3/16 x 9/16 x 1-1/2" channel welded to the bottom of the belt. Used with heavy loads drops to prevent the belt from buckling and related damage. (Available space permits use in flat top only.)
12	Impact Bars-Top Mounted	Impact bars are 3/16 x 9/16 x 1-1/2" channel welded to the top of the belt. Used with heavy loads and drops to prevent the belt from buckling and to protect the top of the belt.
12	Heat Dissipating Bars	Dissipating bars are channel 3/16 x 9/16 x 1-1/2" bars welded to the top of the belt. These bars help absorb heat and help prevent heat damage to the belt. Recommended when part temperatures are beyond 300°F.
13	Impact Rails	Impact rails are pieces of channel cut the same length as the infeed. They are welded to the frame slightly below the bottom of the belt. Their purpose is to increase belt life by providing additional support to prevent the belt from buckling downward when products are dropped on it.
Not Shown	Sidewing Belt Guides	Belt guides are pieces of steel welded along the frame that act as an additional belt tracking surface. They prolong belt life because the belt runs straighter and smoother. They are typically used when straight sections exceed 20' in total length.
15	Recessed Cleats	Recessed cleats are cut 1" to 2" narrower than the belt width. This gap helps prevent jamming because parts will fall back rather than be pushed to the edge of the cleat where jamming can occur.
15	Cut Back Cleats	Cut back cleats are the same as recessed cleats except that the cuts are at 45 degrees from top to bottom. This angle cut provides a bigger gap between the cleat and the sidewing than a recessed straight cut. This gap helps prevent jamming because parts will fall back rather than be pushed to the edge of the cleat where jamming can occur.
16	Wiper Cleats	These are UHMW plastic cleat extensions bolted to the metal cleat. They are used to clean carryover debris that may accumulate on the bottom pan.
17	Center Lane Dividers	Center lane dividers provide separation between products on the belt when multiple products are conveyed.
Frame Options		
18	Bolt-On Bottom Pan	Bottom pans are bolted to the frame bottom. This design is a safety feature because it closes off access to the return belt. This option is typically used when the conveyor is in an open environment.
19	Top Cover	A top cover is a piece of sheet metal that is bolted to the top of the siderails. Top covers enclose the unit to help contain product that may tumble or bounce off the belt.
20	Chip Suppressor	A chip suppressor is a tube-like unit that is mounted on the front portion of the top cover. Suppressors help prevent spillovers of bulky and stringy material by directing it back under the top cover and back onto the belt.

Hinged Steel Belt Options

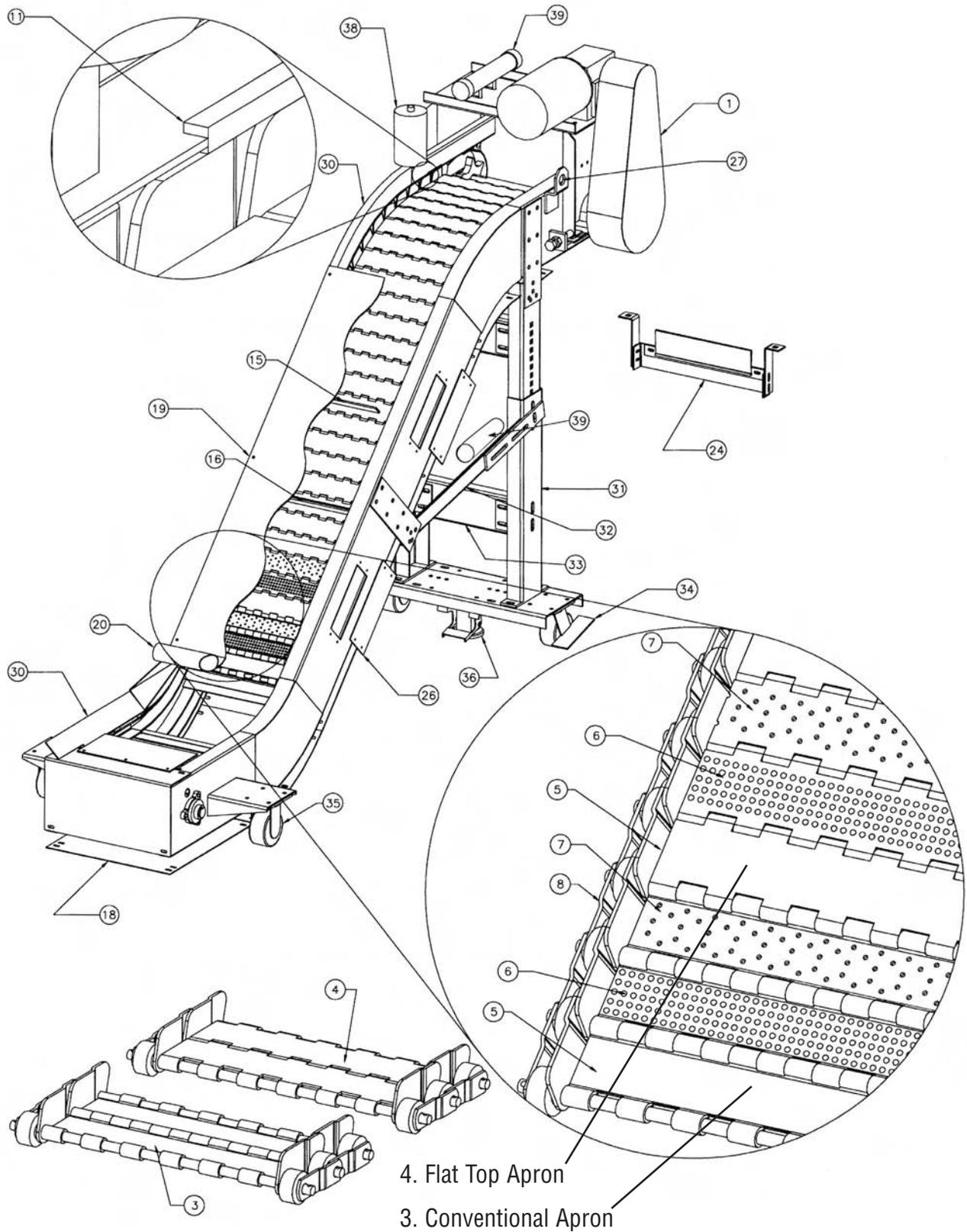


(See Illustrations on Pages 144-145)

Item #	Option Description	Application
21	Liquid-Tight Bottom Pan	A liquid-tight bottom pan is a piece of sheet metal that is formed to the frame bottom. Their purpose is to contain fluids within the conveyor so they can be drained into an accumulation tank.
Not Shown	Marine Bearings	Marine bearings are a bronze bushing pressed into the infeed sprockets. Used in liquid-tight applications.
23	Drain Holes	Drain holes provide a means for liquids to flow through the conveyor's bottom pan and into an accumulation tank. (These holes are not plugged.)
24	Fixed Brush at Discharge	Brushes help knock scrap off the apron at discharge to prevent carryover onto the bottom pan.
25	Rounded Infeed	With a rounded infeed, any carryover product rolls off the rounded edge and onto the wiper cleat. Used when total recovery of carryovers is necessary.
26	Access Panels	These are openings cut into the frame's side. They are used for easy access to clean or lubricate the conveyor.
27	Lifting Lugs	Lifting lugs are welded to the conveyor frame. They are used to move the conveyor and/or to aid in installations or removal.
28	Drain Plug	Drain plugs are used to connect a hose to the conveyor to drain or recycle liquids.
29	Take-Up at Infeed	The take-up assembly is designed to take up belt slack due to stretching. A take-up at the infeed is an additional take-up to the one at the discharge. Because longer belts have more stretch slack, this take-up is recommended for units more than 20 feet long.
30	2", 3-1/2", 6" & 12" Flared Rails	Flared siderails are used to contain product and to widen the loading area. The flares also direct the product back to the center of the belt to help prevent jams. 30° and 40° flares are available.
30	Vertical Rails	Vertical siderails are used to contain product. Available in 2", 3-1/2", 6" & 12"
Supports		
31	Supports	New London Engineering will calculate your support needs per application.
32	Knee Braces	Knee braces connect the supports to the frame. They add rigidity and structure to the conveyor. Knee braces are recommended for all units over 36" in elevation and with casters. New London Engineering will calculate your knee brace needs per application.
33	Spreaders	Spreaders help the supports to maintain their intended width or spread.
Casters		
34	3-1/2", 4" & 6"	Rigid, Rigid with Brake, Swivel, Swivel with Brake
35	Outboard Mounted Casters	These casters are mounted to the side of the conveyor rather than the bottom. This format raises the conveyor only 2" off the floor. Used when the infeed clearance is limited.
36	Floor Locks	Floor locks are mounted to the caster brackets. They are used to secure the unit in place during use.
Other Options		
37	Flappers	Flappers help direct products that are dropped on the conveyor away from the infeed and onto the belt.
38	Automatic Chain Oilers	This is a gravity flow lubrication system that is typically mounted at the discharge end. The system is designed to lube the chain and the tracks. Usually used in applications where the product being conveyed is dry and free of liquids.
39	Manual Tube	This is an enclosed tube designed to store your owner's manual safely and conveniently.
	Discharge Chute	Discharge chutes direct the product into the desired location. They are available in either fixed or pivoting positions and in manual or powered configurations.
	Customized Infeed Hopper	Hoppers direct loose material onto the belt. Hoppers are custom made based on each application.
	Quench Tanks	A quench tank is a liquid-tight welded tank usually mounted at the infeed. They are used to submerge parts for cooling or cleaning purposes.
	Special Paint	New London Engineering will match any quick-dry enamel paint chip. For us to match colors exactly, a paint chip must be supplied.
40	Conventional Rollers	These economical rollers are the industry standard.
41	TruTrak Flanged Rollers	TruTrak flanged rollers prevent the belt from rubbing on the frame which virtually eliminates potential wear to the frame, and the belts, axles, sidewings and cotter pins.

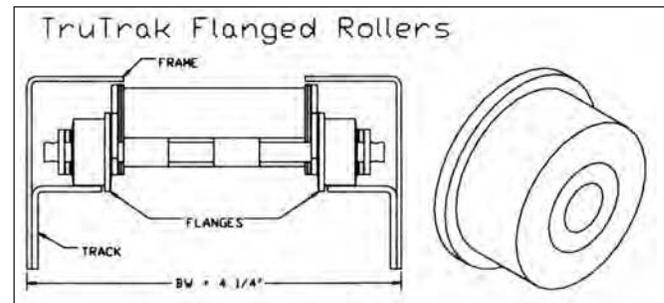
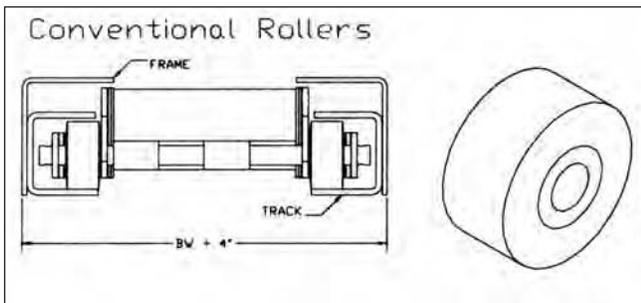
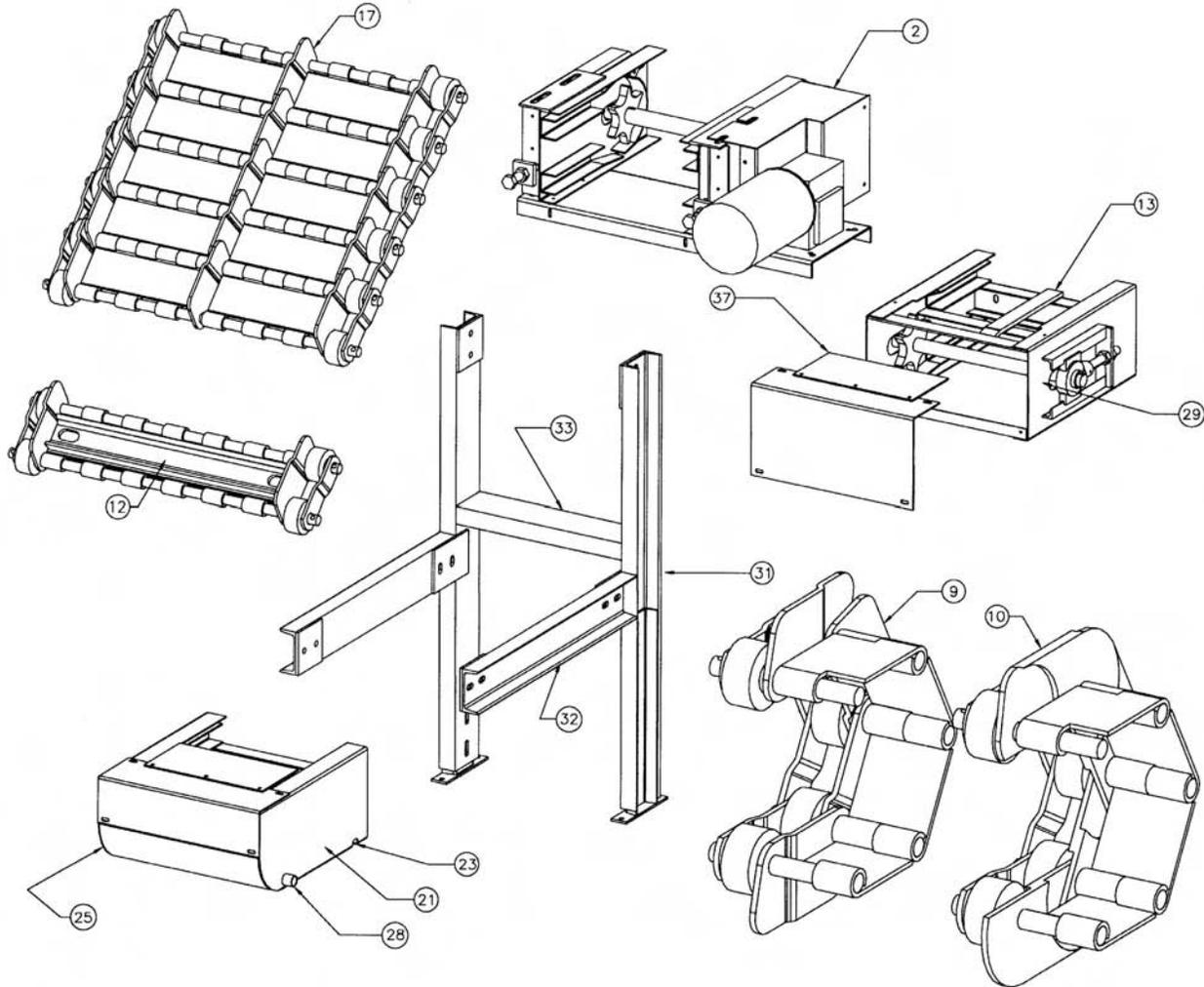
Hinged Steel Belt Options

(See Definitions on Pages 142-143)



Hinged Steel Belt Options

(See Definitions on Pages 142-143)



TruTrak rollers are recommended for use in long run, heavy load applications and where prevention of downtime is priority.