

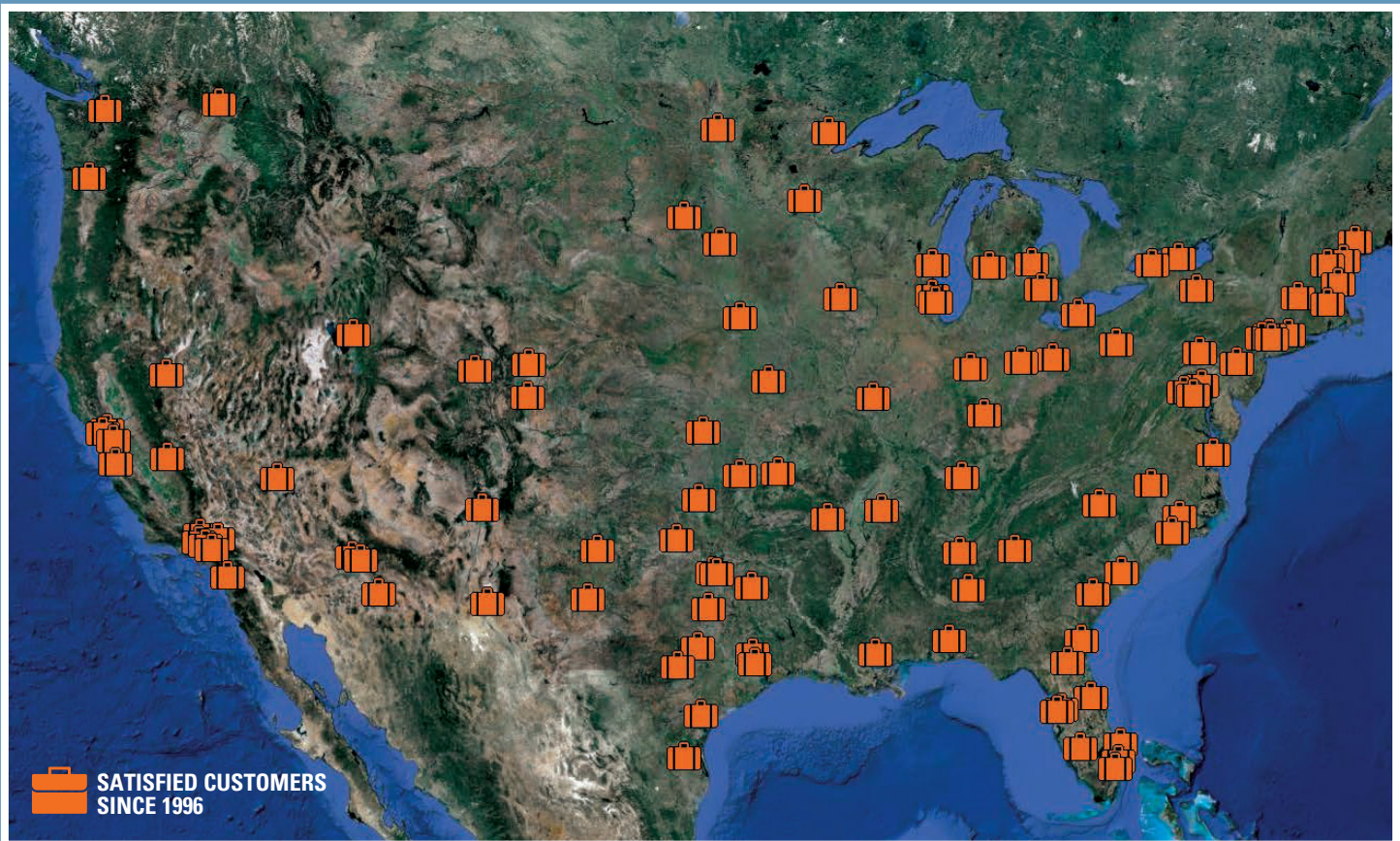
AIRPORT BAGGAGE CONVEYORS

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AIRPORT BAGGAGE CONVEYOR PARTS | Our Approach



Every part is approached from a detailed engineering perspective.

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PREMIUM BAGGAGE CONVEYOR PARTS AND EQUIPMENT

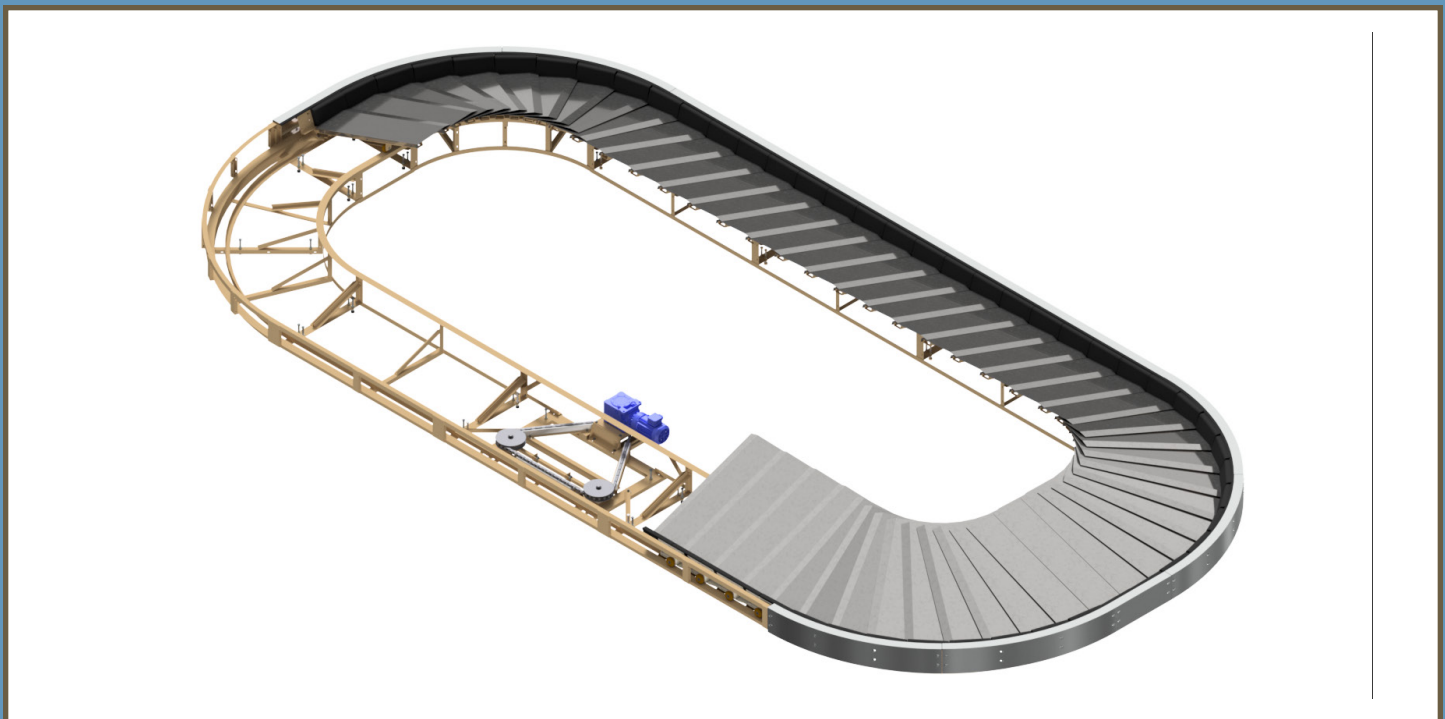


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7000 Series Uni-Claim™ Technical Specifications

Design Elements:

- The 7000 Series Uni-Claim™ is a canted surface closed loop carousel, typically assembled in an oval configuration.
- The Uni-Claim™ can be installed in baggage claim areas or make-up areas.
- A maximum amount of volume capacity is available with a minimum use of floor space.
- Remote loading can be accommodated from below the floor, or from overhead, via belt conveyor(s).
- Carousel operating lifespan is designed to be a minimum of 15 years under normal operating conditions, with proper installation and scheduled maintenance as indicated in provided O & M manuals. Normal operating conditions are 20 hours per day, 365 days per year in a non-corrosive environment.



*7000 Series Uni-Claim™ Carousel
Oval Configuration with
Sumitomo Cyclo® BBB Gearmotor*

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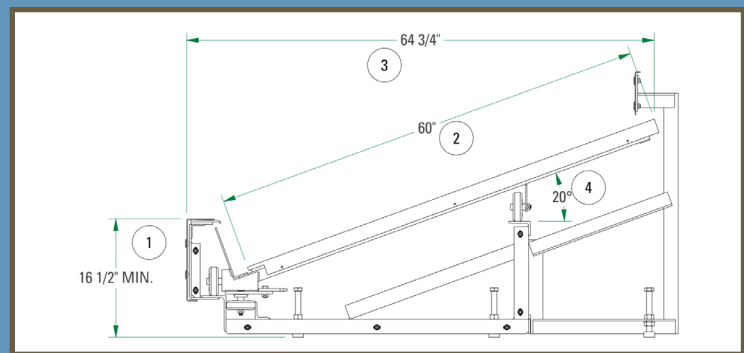
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7000 Series Uni-Claim™ Technical Specifications

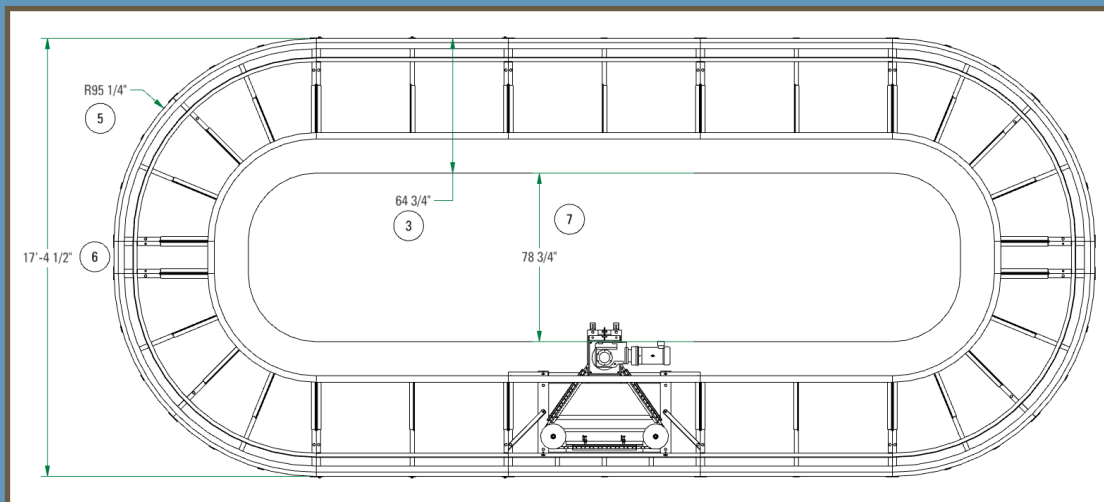
General Information:

All straight and curve frames are welded modular units. Flow direction is typically counterclockwise. Clockwise flow direction is available.

- 1.) Minimum Height to Top of Trim= 16 -1/2"
- 2.) Width of Conveying Surface = 60"
- 3.) Distance from Pallet to Trim= 64-3/4"
- 4.) Slope of Conveying Surface = 20°
- 5.) Outside Curve Radius= 95 -1/4"
- 6.) Overall Minimum Width= 17'-4-1/2"
- 7.) Minimum Inside Width= 78 -3/4"



Frame Section with Dimensions



*Carousel Layout with Dimensions
(Pallets and Pallet Support Assemblies Omitted for Clarity)*

- Center-to-Center Link Hole Distance = 16"
- Minimum Dynamic Load Capacity = 125 Lbs./Ft.
- Static Load Capacity= 250 Lbs./Ft.
- Conveying Speed = 90 FPM

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7000 Series Uni-Claim™ Technical Specifications

Pallets:

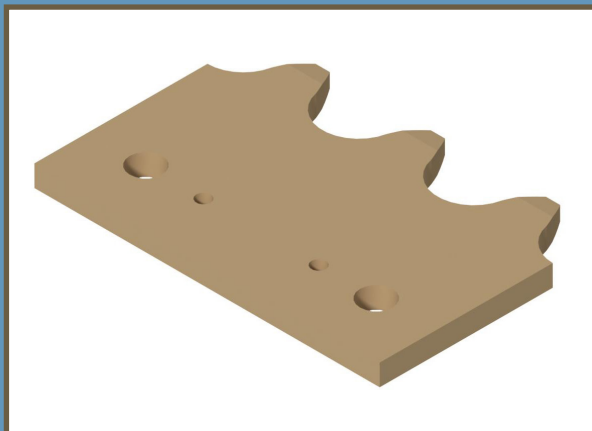
Flight pallets are rectangular shaped and contoured, consisting of 14-gauge 304 stainless steel with #4 brush finish. An anti-friction strip is applied to the underside of the trailing edge to prevent scoring of pallets. 12-gauge material is also available for make-up areas.



*S.S. Pallet Bolted to Pallet
Support Assembly*



Pallet Support Assemblies



Flat Sprocket

Pallet Support Assemblies:

Each pallet support assembly contains vertical upper and lower support wheels, as well as a lower horizontal guide wheel. The pallet supports are driven by replaceable bolt-on flat sprockets. The flat sprocket teeth engage sequentially into a drive chain located in the triangular drive unit(s). The lower leading and trailing ends of each pallet support form a tang and clevis, forming an endless loop when bolted together.

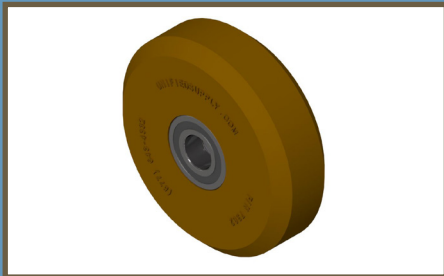


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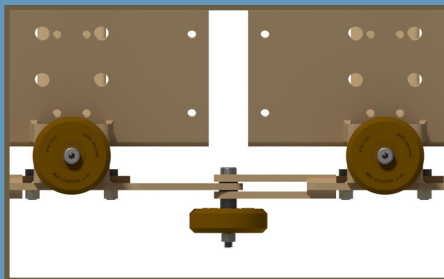
7000 Series Uni-Claim™ Technical Specifications



Ø4 inch Wheel

Support Wheels and Guide Wheels:

Wheels are heavy duty, polyurethane, Ø4" x 1-1/4" wide with two sealed roller ball bearings per wheel. Support wheels are on a maximum of 16" centers, with two support wheels per pallet support assembly. Guide wheels are also on a maximum of 16" centers, with one guide wheel installed per pallet support assembly.



*Guide Wheel Installation with
Shoulder Bolt and Bronze
Flange Bearings*

All wheel fastening shoulder bolts are Ø5/8" with 1/2"-13 threads. Replaceable oil impregnated bronze flange bearings are installed inside the tang and clevis of the pallet supports to provide long life and ease of maintenance.

Bumpers:

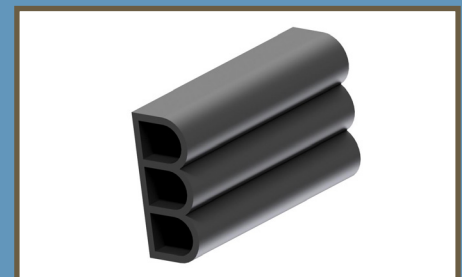
The lower portion of the canted conveying surface is optionally equipped with either individual segmented molded rubber bumpers or conventional "3-D" extruded rubber bumper. The tops of the bumpers are covered by a flat extruded rubber finger guard, enclosed by outer HRS or stainless steel trim.



*Molded Bumper
(Back Side)*



*Molded Bumper
(Front Side)*



*3-D Extruded Bumper
(Front Side)*

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7000 Series Uni-Claim™ Technical Specifications

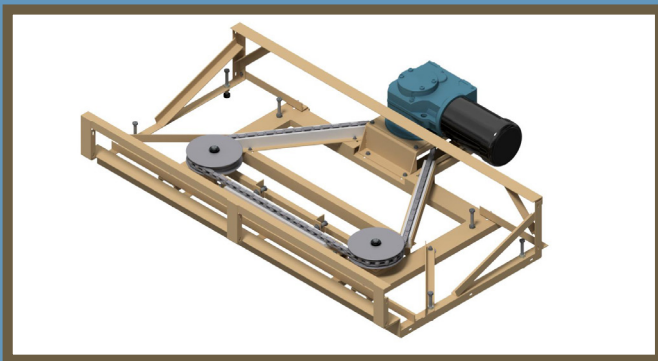
Drives:

Power is harnessed from a motor and right angle vertical solid shaft reducer assembly, mounted in a triangular drive unit(s). Dual drive unit carousels utilize high-slip design D motors. A reducer drive sprocket rotates a horizontal drive chain assembly in a triangular configuration. The drive chain engages the flat sprockets bolted to the pallet supports. The drive chain is guided and supported by three UHMW channels, located between two idler sheaves and the drive sprocket. Screw adjustments are provided for proper chain engagement, tensioning, compensation for initial chain break-in, as well as normal wear.

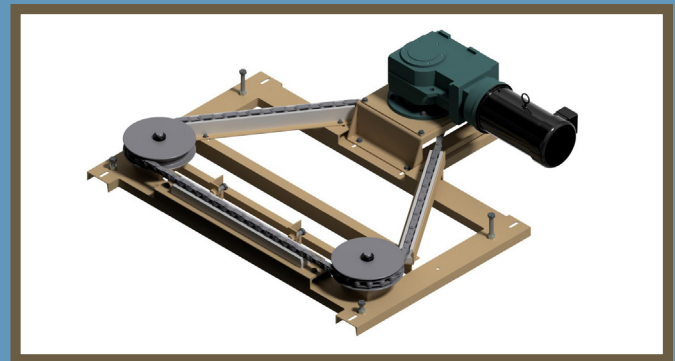
A minimum of three pallet assemblies are engaged with the 7000 Series drive at any time. (Many other manufacturers' devices may only have two pallet links engaged.)

Height adjusting support bolts consist of 3/4" -10 hardware, and utilize individual rubber isolation pads for quiet operation.

Drive assemblies run at 90 FPM and require an electronic soft start device located in the MCP.



*Drive Assembly and Frame with
Available SEW KF® Series Reducer*



*Drive Assembly and Frame with
Available Dodge Quantis® Reducer*

- Standard gear reducers are Dodge Quantis®, Sumitomo Cyclo® BBB, or SEW Eurodrive KF® Series.
- Standard motors are Baldor or Reliance. High-slip design D motors are required for carousels with two or more drives running simultaneously.
- Other reducer and motor combinations are available upon request.

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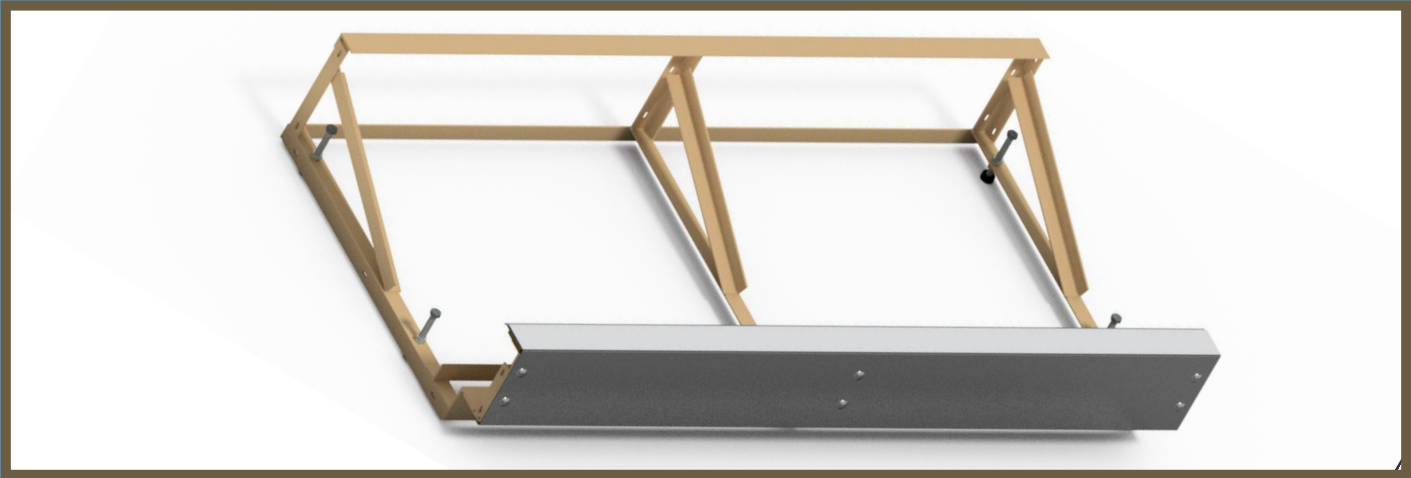


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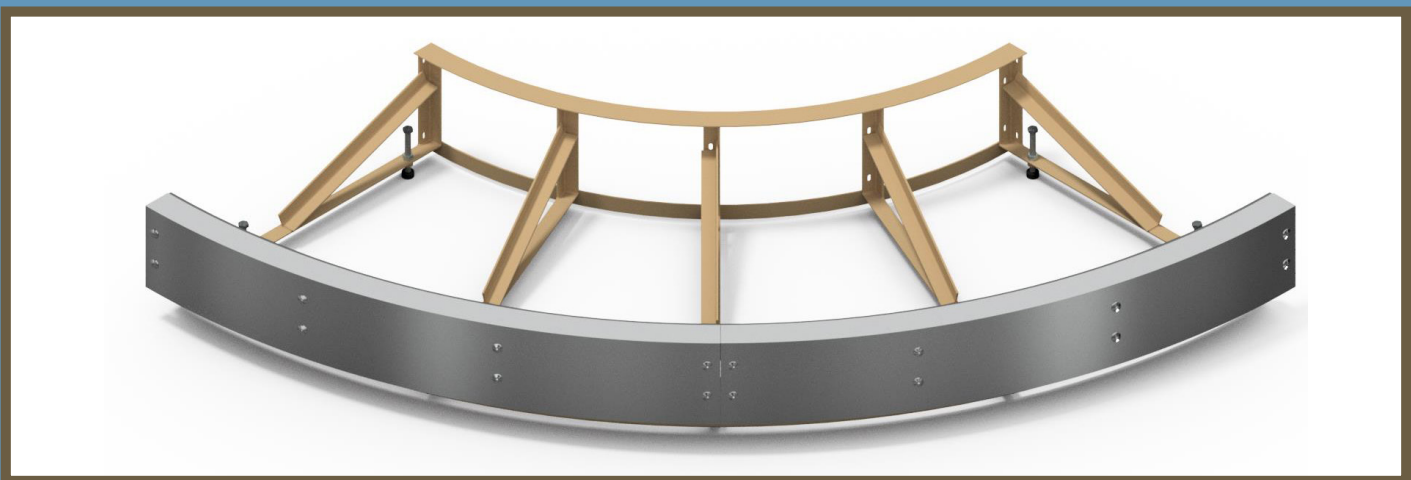
7000 Series Uni-Claim™ Technical Specifications



Modular Straight Frame with S.S. Trim and Rubber Finger Guard

Frames:

Straight and curve frames consist of welded 1/4" structural steel angle. Straight frames are fabricated 90" long for standard lengths. All frames are powder coated to the customer's specified color. The carousel frames mount on the floor with 3/4" -10 leveling screws fitted with rubber isolation pads. Anchor bolts are not normally required, except for the drive area(s). Unit packages are available to raise the frames to appropriate height for unloading in make-up areas.



90° Curve Frame with S.S. Trim and Rubber Finger Guard

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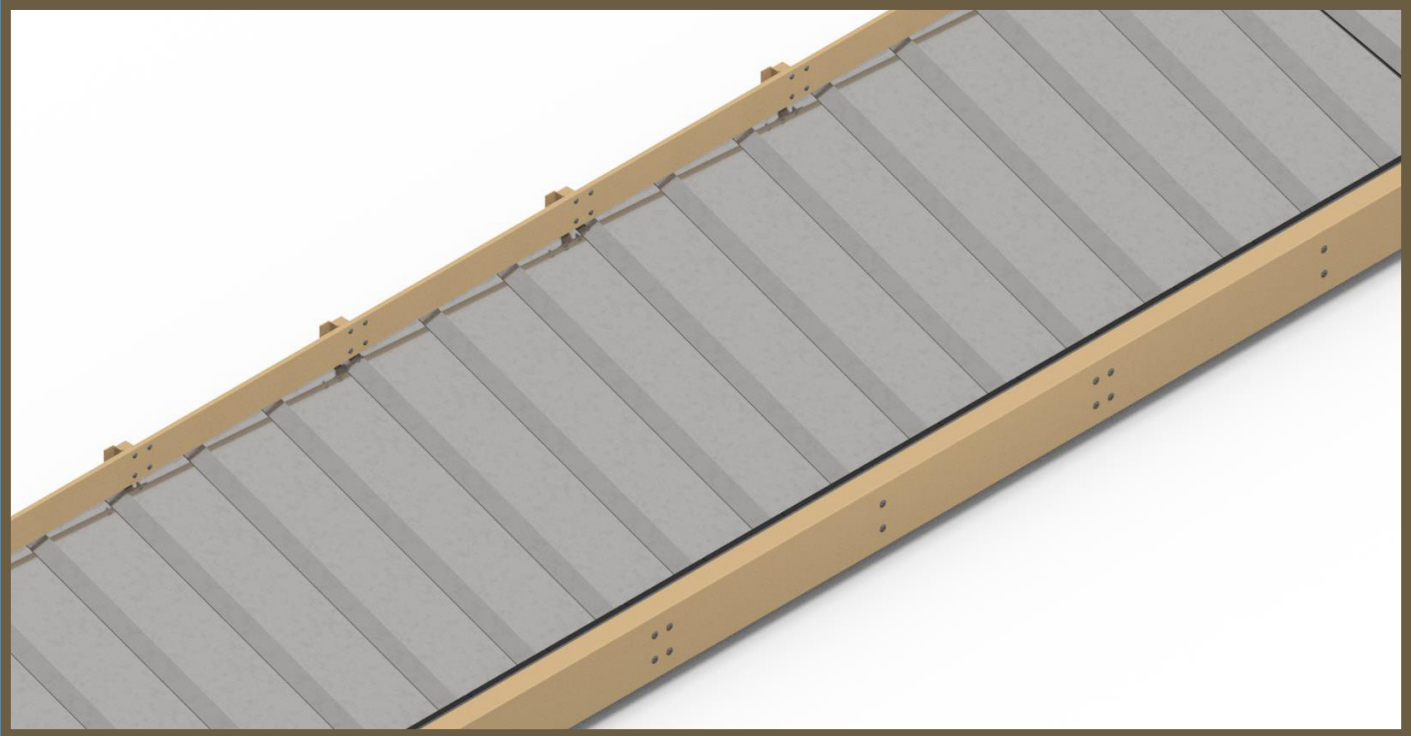


PREMIUM BAGGAGE CONVEYOR PARTS AND EQUIPMENT



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7000 Series Uni-Claim™ Technical Specifications

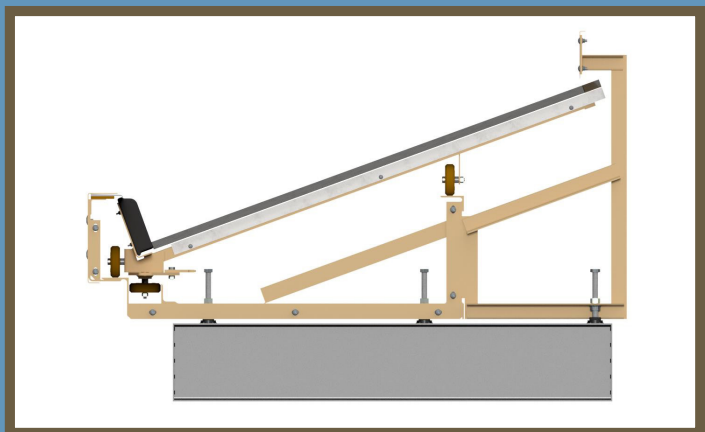


Carousel with HRS Trim and Inside Perimeter Back Guard

Finish, Trim, and Back Guards:

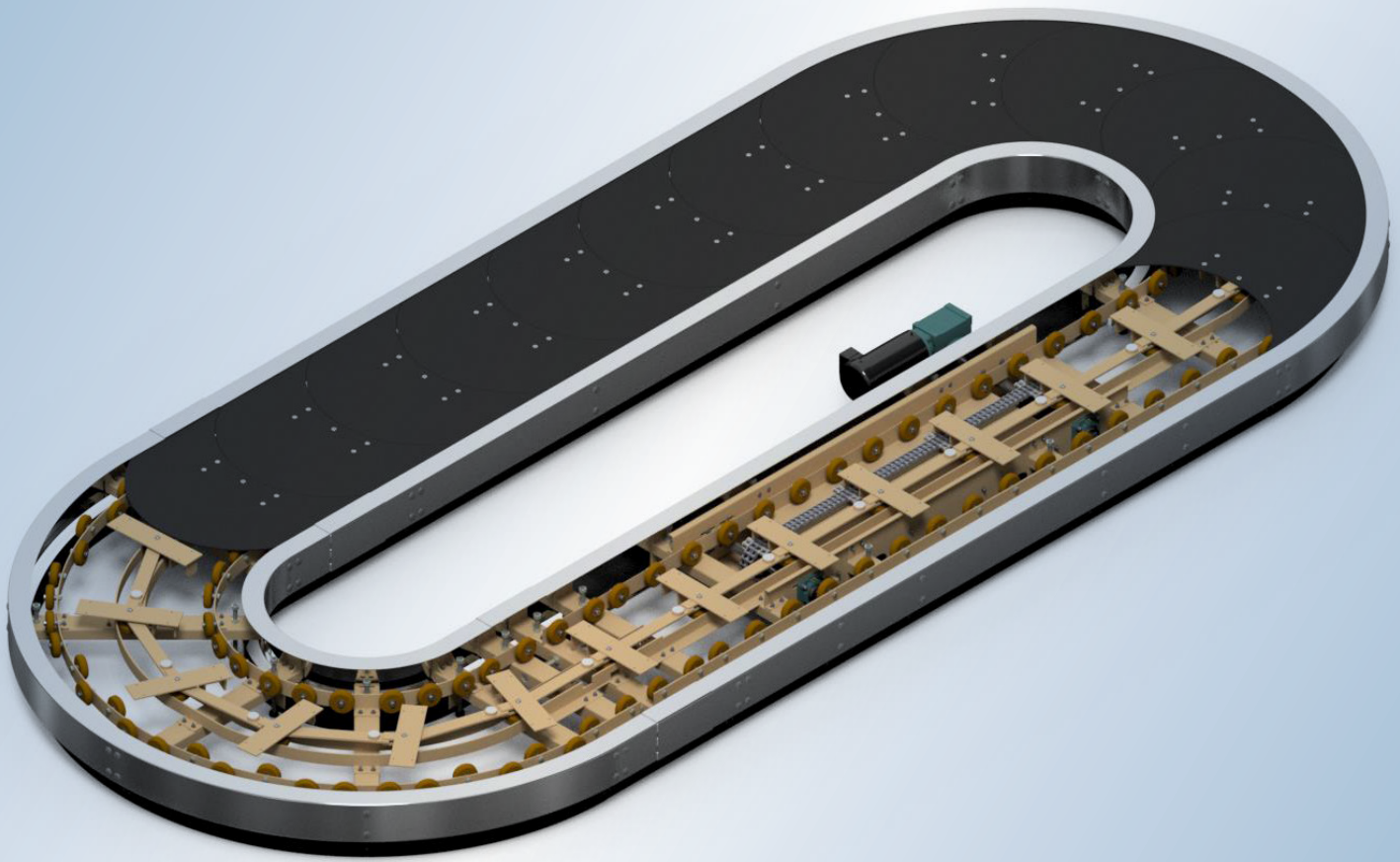
Trim and cladding consists of either powder coating 10-gauge HRS or 10-gauge 304 stainless steel with #4 brush finish. Stainless Steel deck trim is available for public areas. HRS back guards with support frames are available for make-up areas.

Finishes for HRS conveyor frames, back guards, and supports are powder coated to customer specified colors.



*Carousel Frame Section with HRS Trim,
Inside Perimeter Back Guard with Support Frame,
and Optional I-Beam Supports*

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8000 Series Uni-Plate™ Technical Specifications

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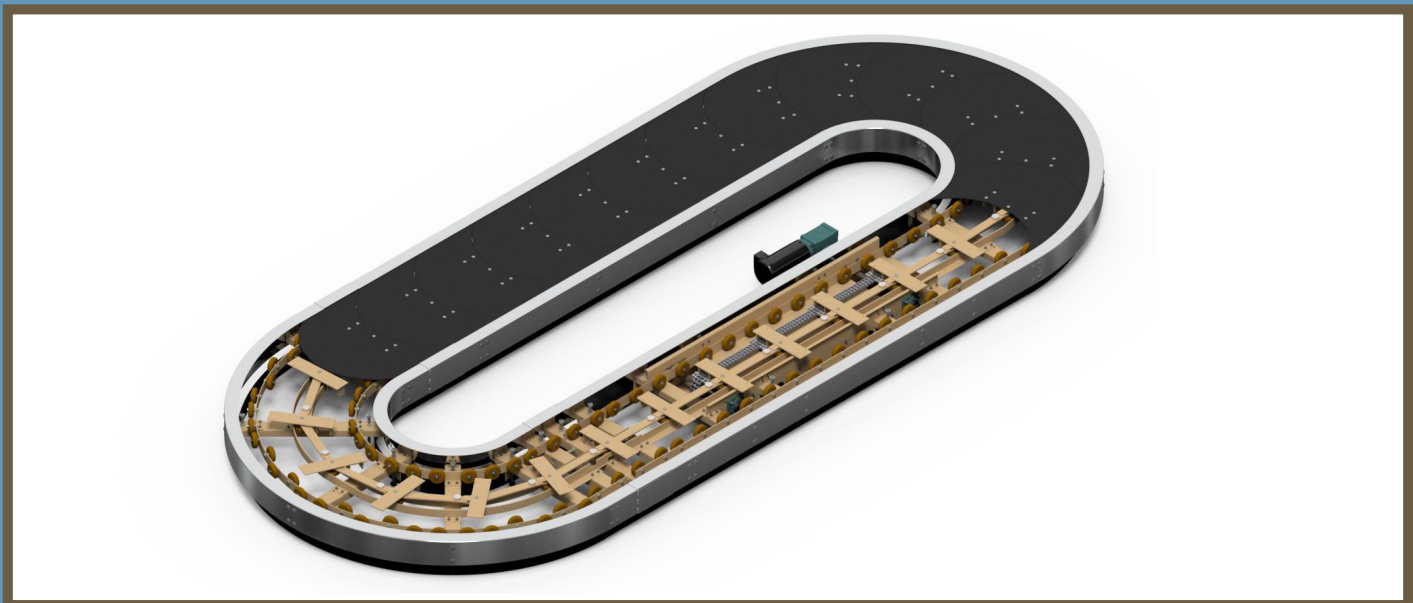


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8000 Series Uni-Plate™ Technical Specifications

Design Elements:

- The 8000 Series Uni-Plate™ has been designed with the optimum use of common fasteners, materials, finishes, and drive components. Many components and fasteners are shared with the Unified Supply incline slope plate 7000 Series Uni-Claim™. Guide and support wheel assemblies are of the same components, enabling the stocking of just one wheel assembly type for spares.
- The carousel curve radius frame design allows the unit to fit the footprint of any existing carousel while utilizing the maximum amount of usable conveying surface in the tightest radius.
- Bolt together frames allow for versatility in shipping and installation. The customer can choose to have the unit frames shipped loose or assembled for a fee.
- Maintenance issues are reduced with the use of sealed for life bearings in the support and guide wheel assemblies, as well as oil impregnated bronze bushings in the link assemblies.
- Support and guide wheels are much larger than alternative units for better load handling, lower RPMs, less wear, and are spaced optimally for cost effectiveness and stability.



8000 Series Uni-Plate™ Carousel

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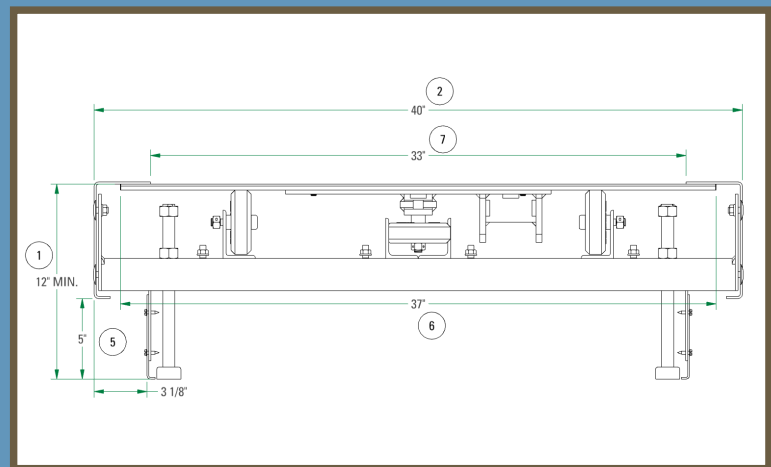
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8000 Series Uni-Plate™ Technical Specifications

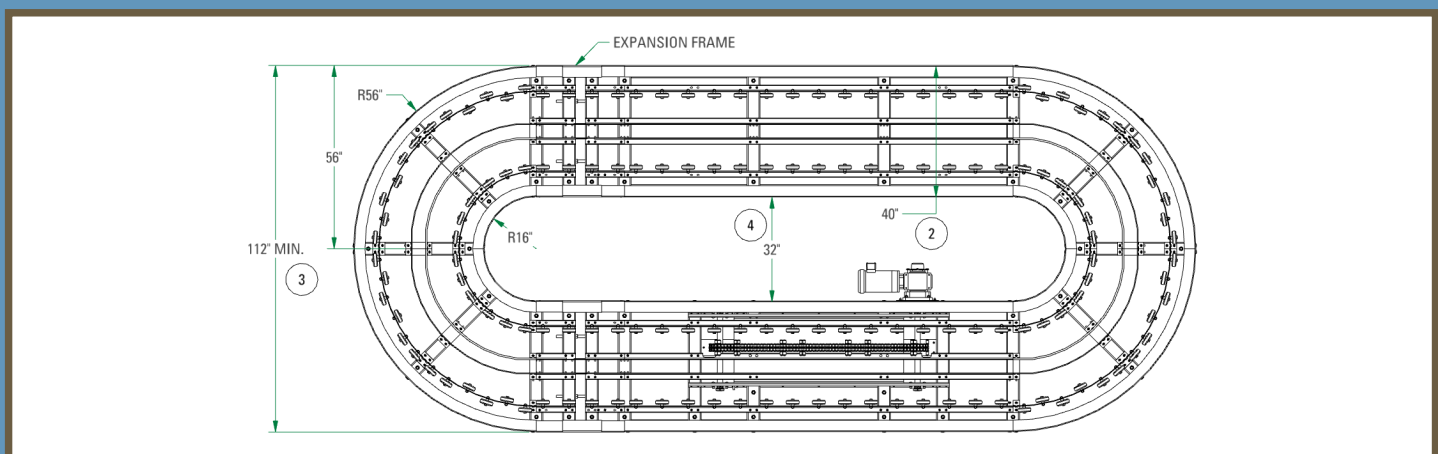
General Information:

All straight and curve frames are bolt-together style, and can be ordered from Unified Supply assembled for an additional cost. Flow direction is typically counterclockwise. Clockwise flow direction is available.

- 1.) Minimum Height
to Top of Pallet= 12"
- 2.) Width of Straight Frames= 40"
- 3.) Minimum Overall
Outside Width= 112"
- 4.) Minimum Inside
Width= 32"
- 5.) Toe Kick Area= 5" minimum x 3-1/8"
- 6.) Overall Pallet Width = 37"
- 7.) Exposed Pallet Width= 33"



Straight Section with Dimensions



Carousel Layout with Dimensions

- Center-to-Center Link Distance = 20"
- Concentrated Static Load Capacity = 200 lbs.
- Speed 90 FPM
- Dynamic Load Capacity = 85 lbs. /Linear Foot

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PREMIUM BAGGAGE CONVEYOR PARTS AND EQUIPMENT



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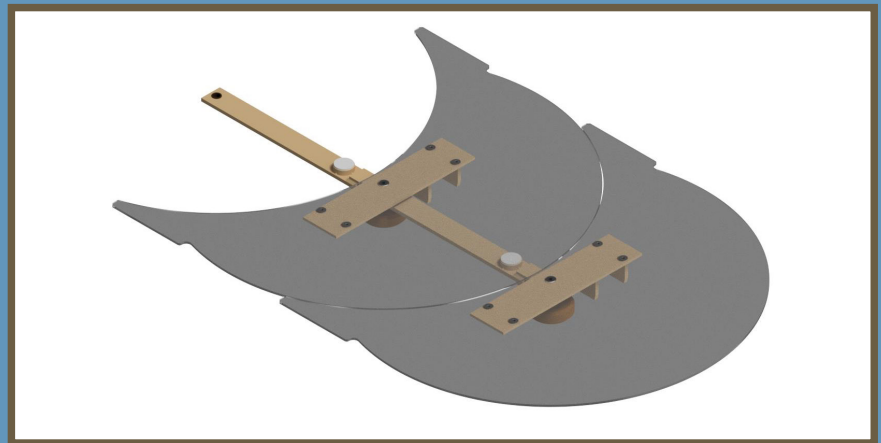
8000 Series Uni-Plate™ Technical Specifications

Crescent Pallets:

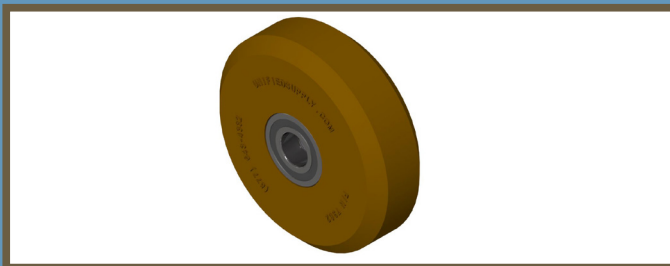
Crescent pallets consist of 1/4" steel plate, powder coated black. Optional polyurethane textured coating for public area use is available.

Pallet Links:

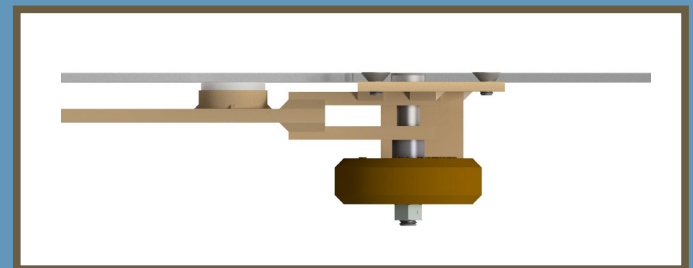
Links consist of a 3/8" flat bar tang and clevis design with integrated hardened drive lugs, and come equipped with replaceable oil impregnated bronze flange bearings and UHMW wear pads.



*Crescent Pallets and Pallet Link Assemblies
(Crescent Pallets Shown Transparent for Clarity)*



Ø4" Wheel



*Guide Wheel Installation with Shoulder
Bolt and Bronze Flange Bearings*

Support Wheels and Guide Wheels:

Wheels are heavy duty, polyurethane, Ø4" x 1-1/4" wide with two sealed roller ball bearings per wheel. Support wheels are on a maximum of 6" centers.

Wheel fastening shoulder bolts are Ø5/8" with 1/2"-13 threads.

(Some competing units use smaller than Ø2" x 9/16" wide wheels with 7/16" hardware.)

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8000 Series Uni-Plate™ Technical Specifications

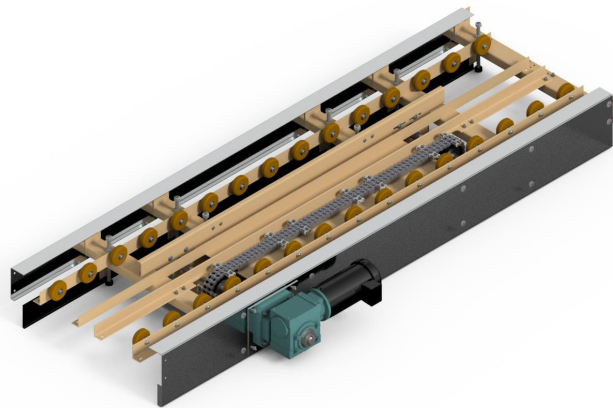
Drives:

Drive assemblies are caterpillar style, utilizing two No. 80 double strand sprockets and a No. 80 double strand roller chain (1" pitch) with Ø1" drive rollers. (Some competing units have only 3/4" pitch with 3/4" drive rollers). UHMW tracking is utilized for chain alignment and quiet, low maintenance operation. Adjustment screws are provided on the idler shaft bearings for chain tensioning.

A minimum of three pallet links are engaged with the 8000 Series drive at any time, while many other manufacturer's devices will only have two pallet links engaged.

Height adjusting support bolts consist of 3/4"-10 hardware, and utilize individual rubber isolation pads for quiet operation.

Drive assemblies run at 90 FPM and require an electronic soft start device located in the MCP.



Drive Assembly

- Drive and idler shaft bearings are Dodge SXR®.
- Standard gear reducers are Dodge Tigear-2® shaft mount.
- Standard motors are Baldor or Reliance. High-slip Design D motors are required for carousels with two or more drives running simultaneously.
- Other reducer and motor combinations are available upon request.

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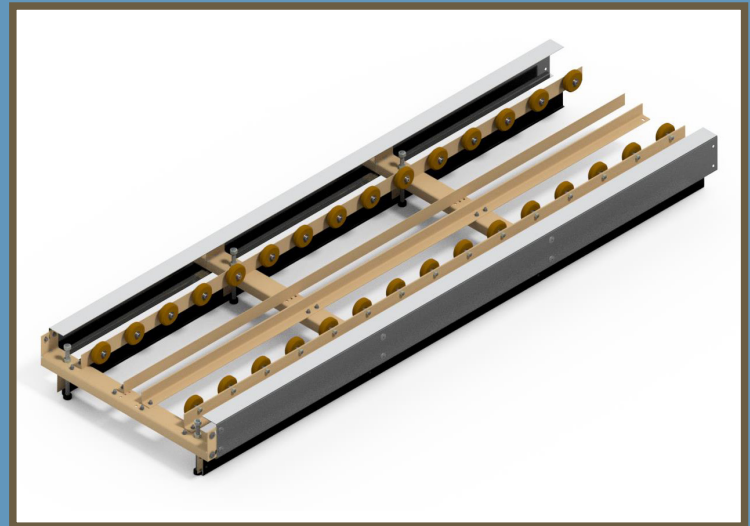
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8000 Series Uni-Plate™ Technical Specifications

Straight Frames:

Straight frame construction consists of 3/16" HRS formed channel bolted on 40" centers maximum. Guide wheel and support wheel angles are made from 3/16" structural angle. Angles and channels bolt together using common 3/8" -16 carriage bolts and serrated flange nuts. Height adjusting support bolts consist of 3/4" -10 hardware, and utilize individual rubber isolation pads.

- Standard straight frame dimensions
= 119" Long x 40" Wide



*Straight Frame Assembly with S.S. Trim and
Rubber Finger Guard*

Curve Frames:

Curve frame construction consists of 1/2" and 1/4" formed flat bar for guide wheel and support wheel rails. Frame channels are constructed of formed 3/16" HRS. Wheel rails and support channels bolt together using common 3/8"-16 carriage bolts and serrated flange nuts. Height adjusting support bolts consist of 3/4" -10 hardware and utilize individual rubber isolation pads.

- Inside radius= 16"
- Outside radius= 56"



*Curve Frame Assembly with S.S. Trim
and Rubber Finger Guard*

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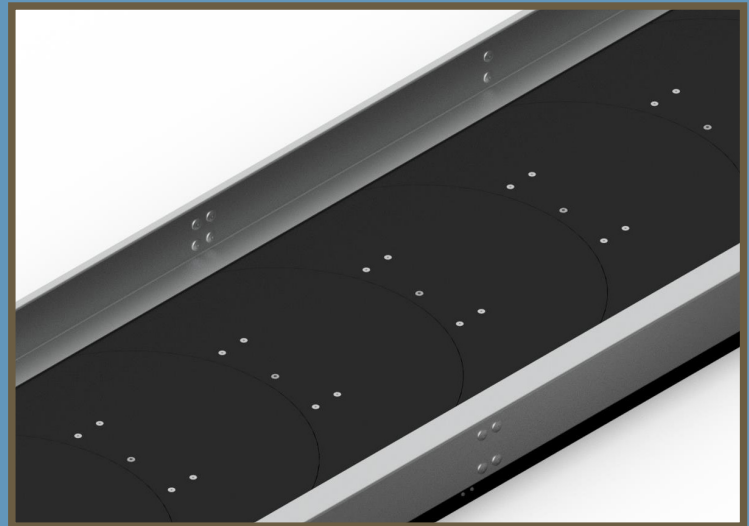


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8000 Series Uni-Plate™ Technical Specifications

Finish, Trim, and Side Guards:

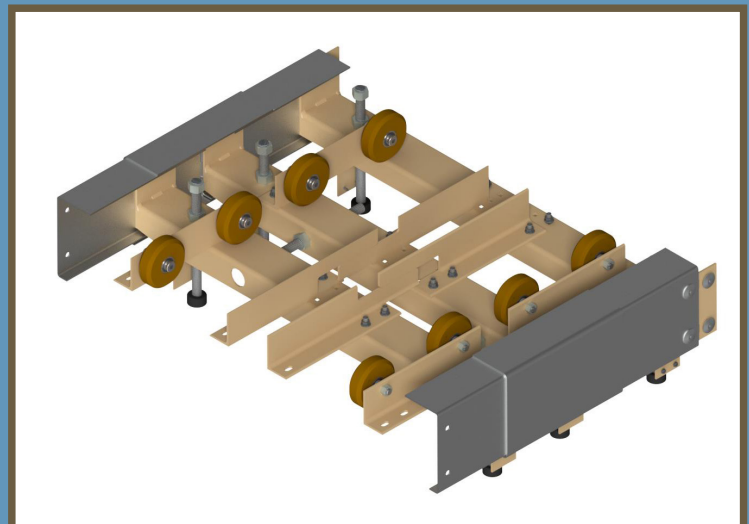
All HRS is protected with a powder coat finish. Trim is constructed of 10 gauge, HRS for non-public areas, or 10 gauge 304 stainless steel with a No. 4 brush finish for public areas. Visible trim fasteners in the public area are stainless steel. Stainless steel deck trim is 6" tall with a 1" wide top flange. HRS side guards are typically 21" tall, with 3/16" vertical stiffeners.



Carousel with S.S. Trim and S.S. Deck Trim

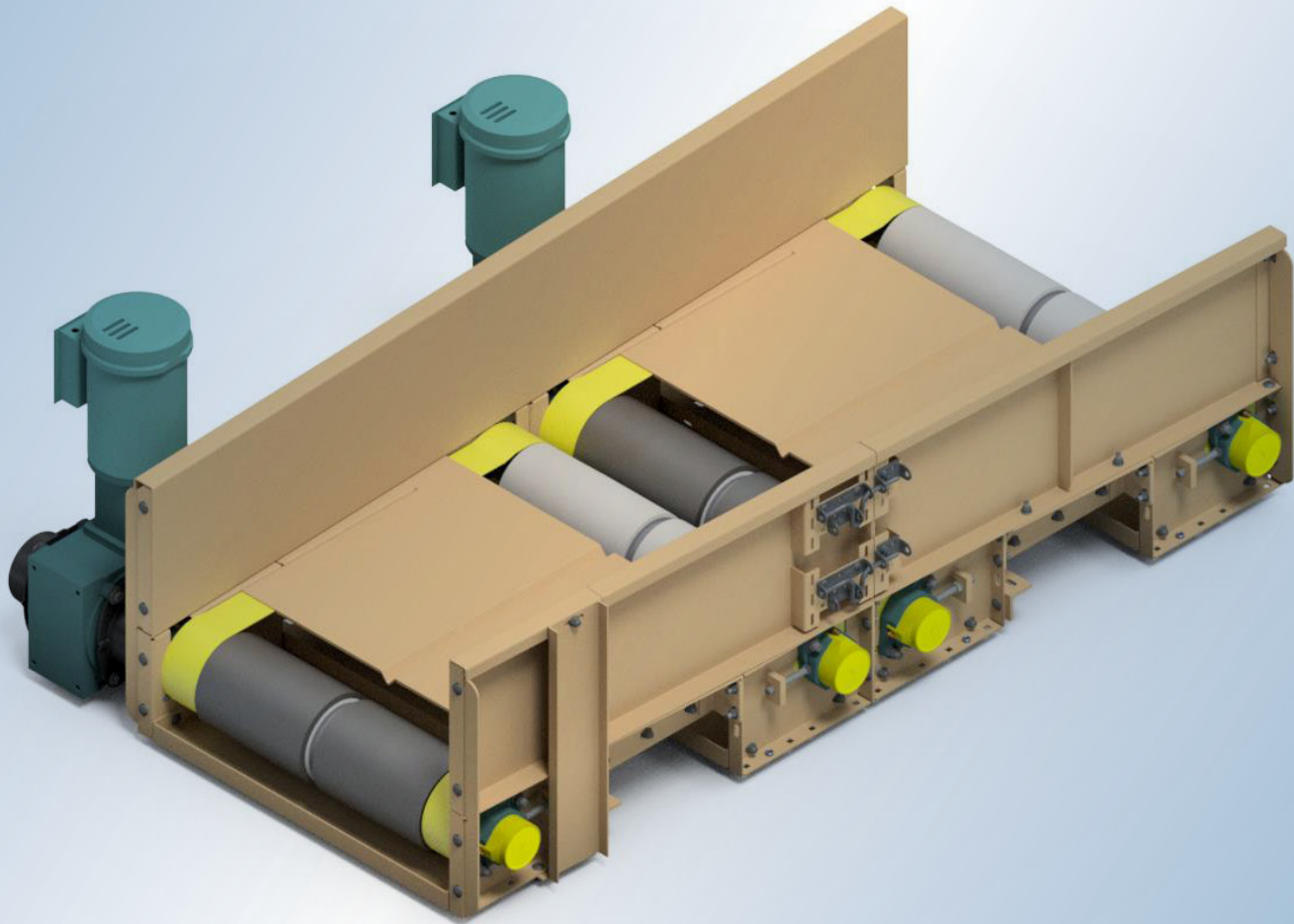
Expansion Frames:

Provision for the unit to be adjusted for break-in and wear is accomplished by the use of expansion frames. The expansion frames feature overlapping guide wheel tracks, and are assisted in adjustment by heavy duty 3/4" -10 jacking bolts. Specific trim with welded seams upstream of flow allow frame expansion without replacement of trim.



Expansion Frame Assembly

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3000 Series Uni-Queue™ Technical Specifications

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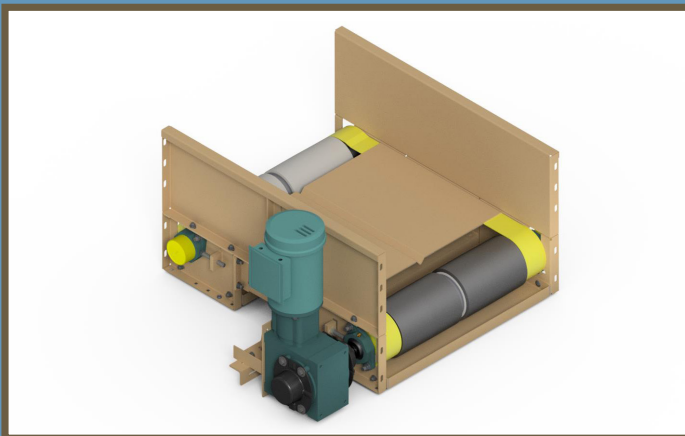


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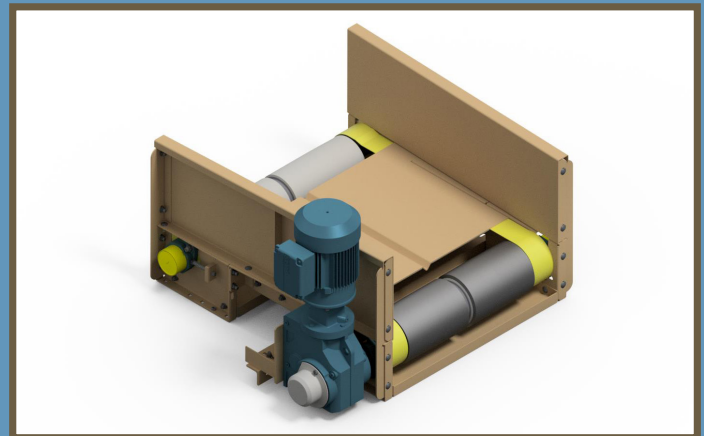
3000 Series Uni-Queue™ Technical Specifications

Design Elements:

- The 3000 Series Uni-Queue™ is designed to compliment the larger 9000 Series Uni-Belt™ in a more compact package utilizing many similar components, enabling unique solutions for a diversity of applications.
- With the use of a tapered side guard configuration, the Uni-Queue™ can be utilized upstream of an EDS (Explosion Detection System) to funnel baggage into a narrower opening. With a standard straight frame and a high cycle rate, it can be used as a method of traffic control at merge points.
- A compact design allows for installation at ticket counters, with a minimum loading height of 12", and can be trimmed in stainless steel.
- With 11 gauge steel construction and full-sized end rollers, the Uni-Queue™ can easily sustain 120- pound bags being dropped from a height of 12".
- For TSA applications, the Uni-Queue™ can be mounted at any height to match the latest of screening devices, allowing smooth and efficient transfers for load and offload belts.
- The Uni-Queue™ also has the unique ability to travel in reverse, as well as forward, creating an assortment of special applications.



36" Long Model with Dodge Tigear-2® Reducer



*36" Long Tapered Model with
SEW KA® Series Gearmotor*

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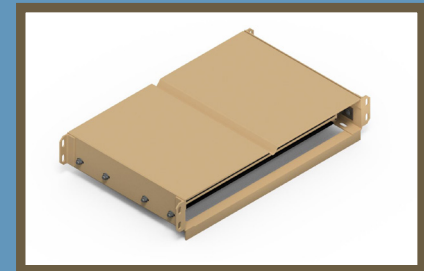


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3000 Series Uni-Queue™ Technical Specifications

General Dimensions and Capacities:

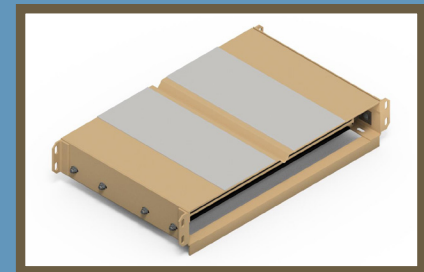
- 1.) Width of Belting Surface = 24" to 36" (27" BF to 39" BF)
- 2.) Minimum Length of Queue Conveyor= 36"
- 3.) Conveying Speed (Varies) - 30 to 210 FPM
- 4.) Load Capacity- 60 lbs/ft Live Load



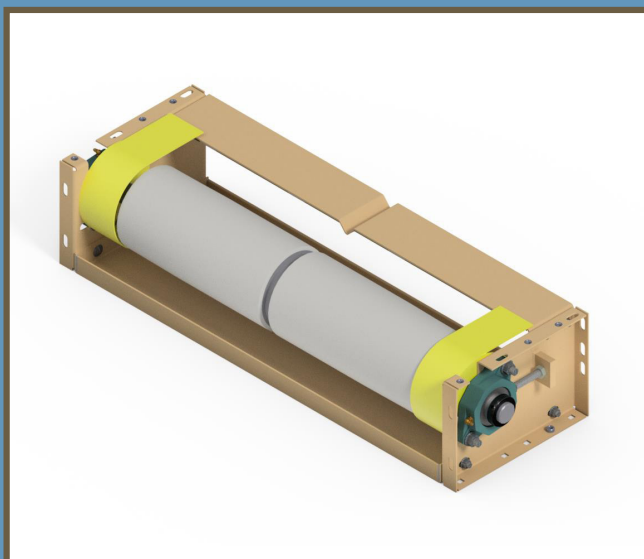
V-Grooved Bed Assembly

Bed Frames:

Conveyor bed frames are of welded steel construction. Top bed surfaces are V-Grooved for positive tracking, formed from 11 gauge steel, braced with welded 3/16" x 1-1/4" x 1-1/4" steel angle stiffeners to the underside. 12 gauge steel filler plates are available to enable shrouding with HRS or stainless steel trim.



*V-Grooved Bed Assembly
with Filler Plate*



End Bracket Assembly with Finger Guards

End Brackets:

End bracket side panels are 8" tall x 12" long, fabricated from 11 gauge steel with a 2" long cutout for end pulley removal. End bracket filler beds are V-Grooved for positive tracking, formed from 11 gauge steel and braced with welded 3/16" x 1-1/4" x 1-1/4" steel angle stiffeners to the underside. For load/unload queue configurations, 14 gauge steel finger guards are available for shrouding the ends of the pulleys, and are supported by the filler bed stiffeners. Square head set screws and jam nuts are provided for end pulley adjustment and tensioning.

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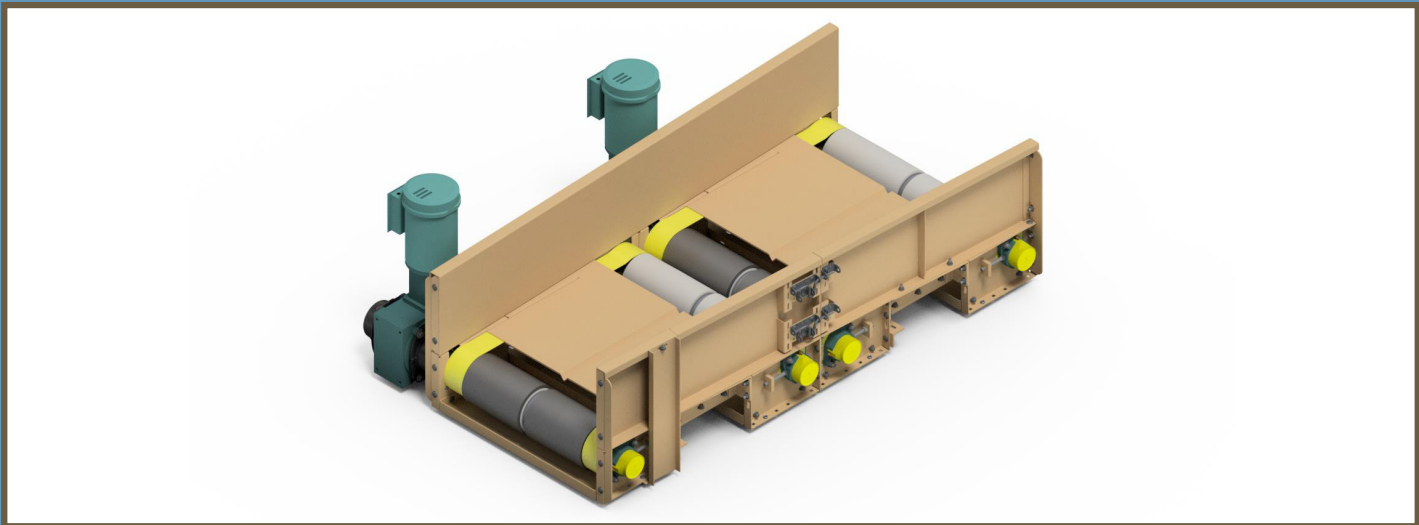


PREMIUM BAGGAGE CONVEYOR PARTS AND EQUIPMENT



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3000 Series Uni-Queue™ Technical Specifications



Queue Conveyor Assemblies with Tapered & Hinged Side Guards

Side Guards:

Side guards are bolt-on style, fabricated from 12 gauge steel with welded external 3/16" x 1-1/4" x 1-1/4" steel angle stiffeners. Side guard heights range from 3" tall to 21" tall, with 1-1/2" wide top flanges and 1" tall return flanges for strength. Tapered and hinged style side guard configurations are also available, such as for EDS feed applications, enabling bag removal and insertion at the feed entry of the EDS.



Floor Support

Supports:

Floor mounted conveyors are supported on formed 10-gauge steel channel leg assemblies. Each assembly is adjustable in height by means of slotted channels and galvanized brackets. Ceiling mounted conveyors are supported by 3/4"-10" all-thread rod and 1/4" x 3" x 3" steel angle.

Belting:

Belting is a "V" Belt guided for positive tracking, typically either longitudinal grooved, or PVC 150 FS x FS (typical transport belting), or as specified by customer. Belting lacing is Clipper UX-1 for longitudinal grooved, or Clipper No. 2 for FS x FS, with nylon coated wire cable (Clipper NyloSteel).

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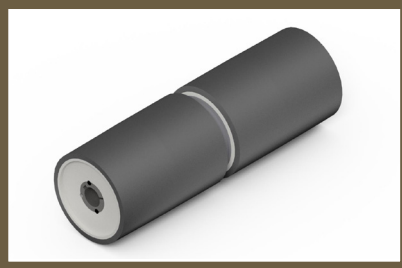


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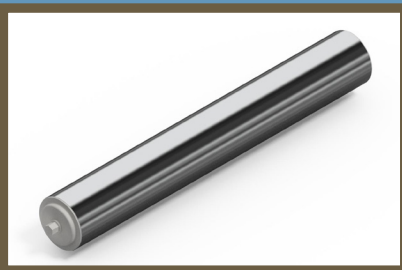
3000 Series Uni-Queue™ Technical Specifications



*Drive Pulley with V-Groove
and 3/8" Lagging*

Pulleys:

Drive pulleys and end/take-up pulleys are steel construction, machined for "B" Belt type center groove for positive tracking of belting. Drive pulleys and end/take-up pulleys are equipped with taper bushed hubs and $\varnothing 1-7/16$ " CRS shafts mounted in Dodge SXR® ball bearing units. Drive pulleys are $\varnothing 6-3/4$ " overall with 3/8" vulcanized lagging. End/take-up pulleys are $\varnothing 6$ ".



Return Roller with Hex Shaft

Return Rollers:

Return rollers are 9 gauge steel, $\varnothing 3-1/2$ " O.D. tubing with internally mounted sealed precision ball bearings and spring loaded 11/16" steel hex shafts. Return rollers mount between galvanized brackets on the inside portion of the conveyor bed.

Trim and Finish:

Trim and cladding consists of either powder coated 12 gauge HRS or 12 gauge 304 stainless steel with #4 brush finish. Finishes for HRS conveyor frames, side guards, and supports are powder coated to customer specified colors.

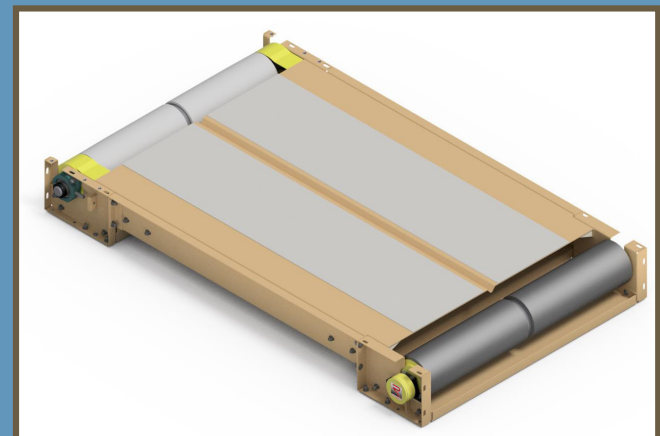
Drives:

A variety of drive configurations are available:

- Chain and sprocket with inline helical reducer.
- V-belt and sheave with shaft mount reducer.
- Right angle shaft mount reducer.
- Motorized drive pulley.

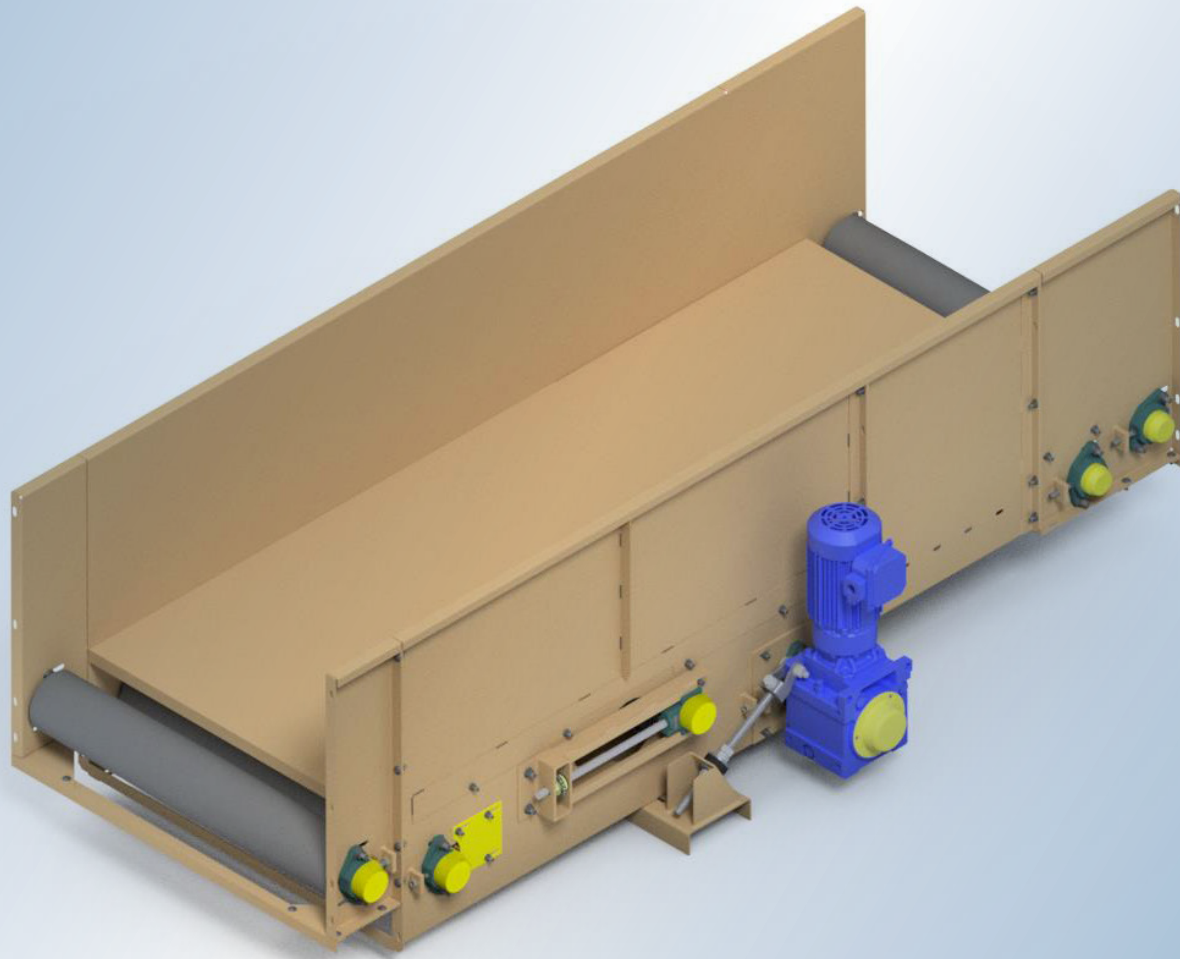
Reducer manufacturer applications:

- Dodge - TXT® ABHS, Tigear-2®, Quantis®
- Sumitomo - HSM®, Hyponic®, Cyclo®
- SEW Eurodrive® Gearmotors
- Van der Graaf Drum Motors
- Rulmeca Drum Motors



*Queue Assembly with Filler Plate
and Motorized Pulley*

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9000 Series Uni-Belt™

Technical Specifications

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PREMIUM BAGGAGE CONVEYOR PARTS AND EQUIPMENT

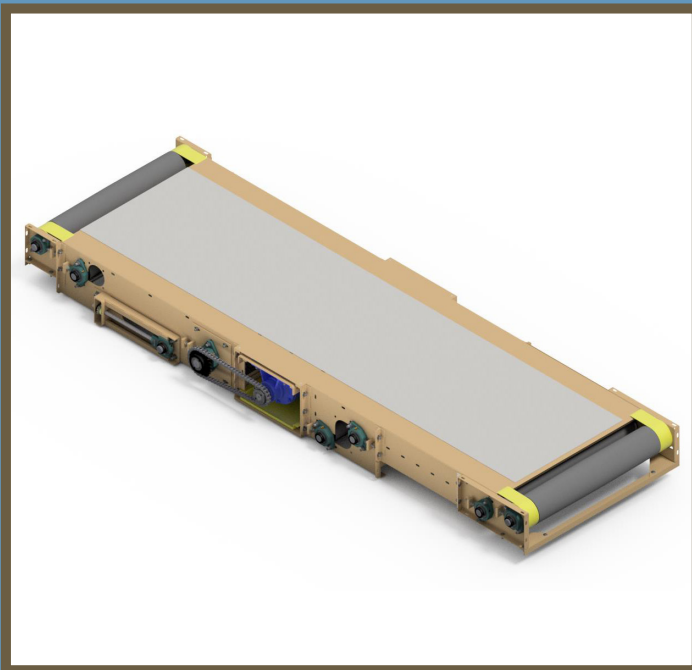


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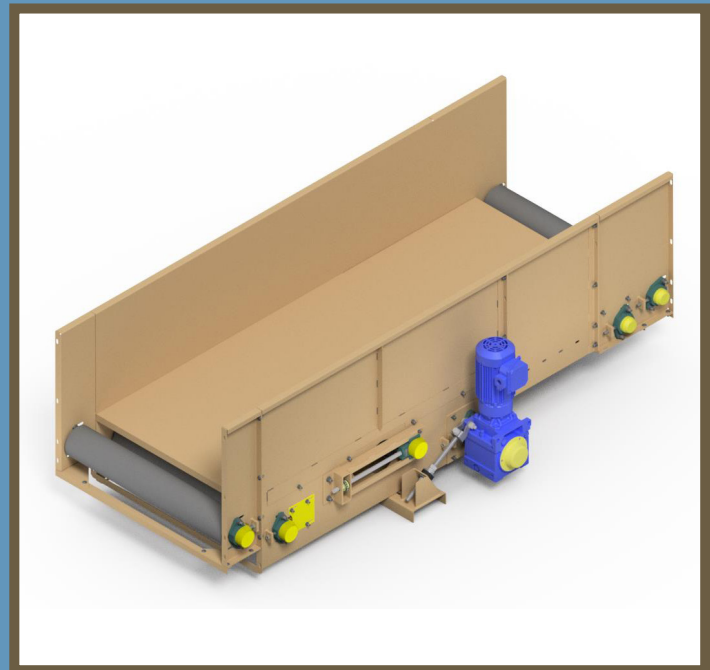
9000 Series Uni-Belt™ Technical Specifications

Design Elements:

- The 9000 Series Uni-Belt™ conveyor is designed and engineered to meet specific requirements for load, unload, and transport needs of the baggage handling industry. Rugged and versatile, the 9000 Series can also be easily expanded for customers' growing needs.
- The Uni-Belt™ is a modular design with a variety of drives, ends brackets, roller assemblies, and support systems to fulfill airport and rail terminal applications. Heavy-duty drives assure virtually trouble-free service.
- Optional compact drive designs allow for installation at ticket counters with a minimum loading height of 12", and can be trimmed in stainless steel.
- With 11 gauge steel construction and full-sized end rollers, the Uni-Belt™ can easily sustain 120-pound bags being dropped from a height of 12".



*Ticket Counter Load Conveyor Shown
with Filler Plate*



*Transport Conveyor with 21" Tall Double Side
Guards and Right Angle Gearmotor*

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PREMIUM BAGGAGE CONVEYOR PARTS AND EQUIPMENT

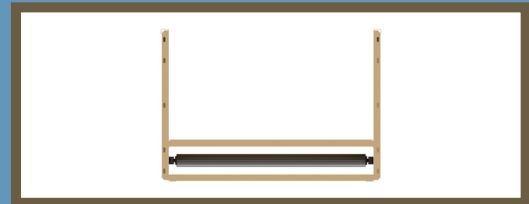


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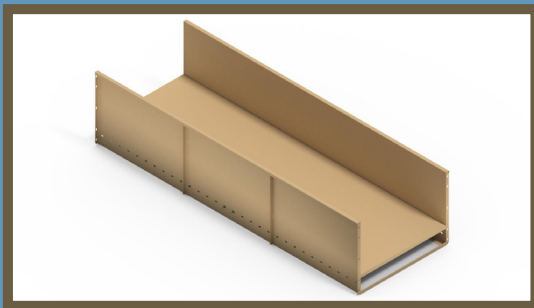
9000 Series Uni-Belt™ Technical Specifications

General Dimensions and Capacities:

- 1.) Width of Belting Surface= 24" to 48" (27" BF to 51" BF)
- 2.) Minimum Length of Belt Conveyor= 42"
- 3.) Conveying Speed (Varies) - 30 FPM minimum
- 4.) Load Capacity- 60 lbs/ft Live Load



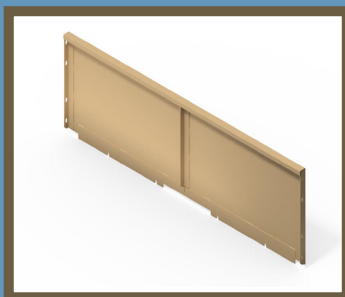
*End view of typical bed section
with 21" side guards*



*Standard 120" Long Bed Frame with
21" Tall Integrated Double Side Guards*

Bed Frames:

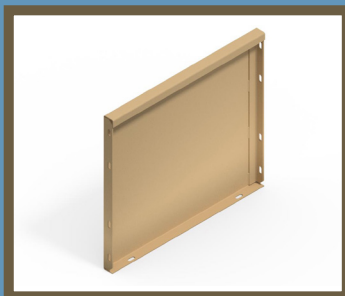
Conveyor bed frames are of welded steel construction. Bed channels are formed from 11 gauge steel, braced with welded 3/16" x 1-1/4" x 1-1/4" steel angle stiffeners to the underside, spaced on maximum 3'-4" centers. The width of the bed plate channel is three inches wider than the width of the conveyor belting. 12 gauge steel filler plates are available to enable shrouding with HRS or stainless steel trim.



*21" Tall Bolt-On Side Guard
for Drive Assemblies*

Side Guards:

Side guards are fabricated of 12 gauge steel, with 3/16" x 1-1/4" x 1-1/4" steel angle welded on the outside, spaced on maximum 3'-4" centers for transport conveyors, and maximum 2'-6" centers for load conveyors. The side guards and conveyor bedplate channel form an integral welded frame for bed sections.



21" Tall Bolt-On Side Guard for End Brackets

Bolt-on side guards are used for drive assemblies, and available for end brackets. Typical side guard heights are 12" or 21" tall, with 1-1/2" wide top flanges and 1" tall return flanges for strength.

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PREMIUM BAGGAGE CONVEYOR PARTS AND EQUIPMENT

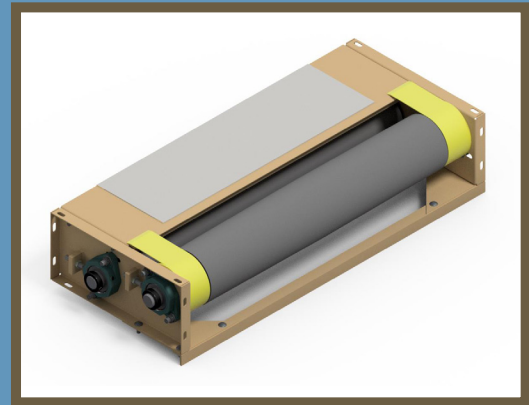


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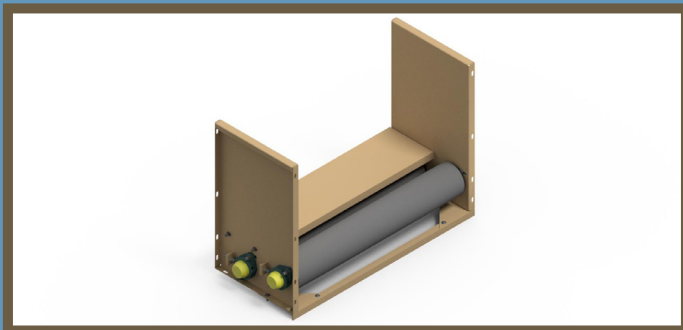
9000 Series Uni-Belt™ Technical Specifications

End Brackets:

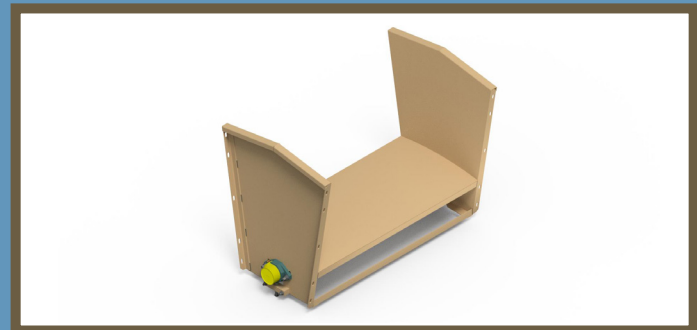
End bracket filler beds are fabricated from 11 gauge steel, reinforced by 3/16" x 1-1/4" x 1-1/4" steel angle welded on the bottom. For load/unload conveyor configurations, 14 gauge steel finger guards are available for shrouding the ends of the pulleys. End and snub pulleys are equipped with minimum Ø1-7/16" CRS shafts mounted in eccentric locking collar, Dodge SXR® ball bearing units. Square head set screws and jam nuts are provided for pulley adjustment and tensioning.



*End Bracket with Finger Guards
and Filler Plate*



*End Bracket with 21" Tall Integrated
Double Side Guards*



*18° Radius Break Over Assembly
with Five Foot Radius*

Radius Break Overs (RBOs):

RBO beds are fabricated from 11 gauge steel, reinforced by 3/16" x 1-1/4" x 1-1/4" steel angle welded on the bottom. Snub pulleys are equipped with minimum Ø1-7/16" CRS shafts mounted in eccentric locking collar, Dodge SXR ball bearing units. Square head set screws and jam nuts are provided for pulley adjustment.

RBOs are available in either a five foot or ten foot radius. Standard slope ranges are 18°, 20°, and 22°, with 18° as industry design objective.

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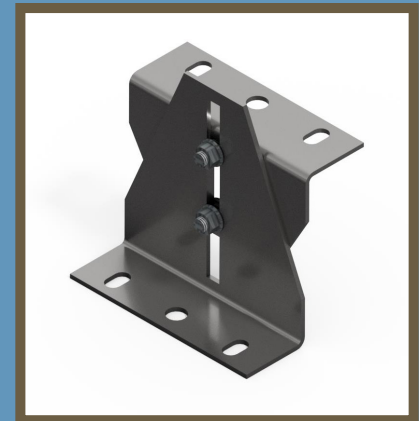
9000 Series Uni-Belt™ Technical Specifications

Supports:

All transport conveyor supports are spaced on a maximum distance of ten foot centers. Load and unload conveyor supports are spaced on a maximum distance of five foot centers.

Floor mounted conveyors are supported on formed 10 gauge steel channel leg "H" style assemblies. Each assembly is adjustable in height by means of slotted channels and galvanized brackets.

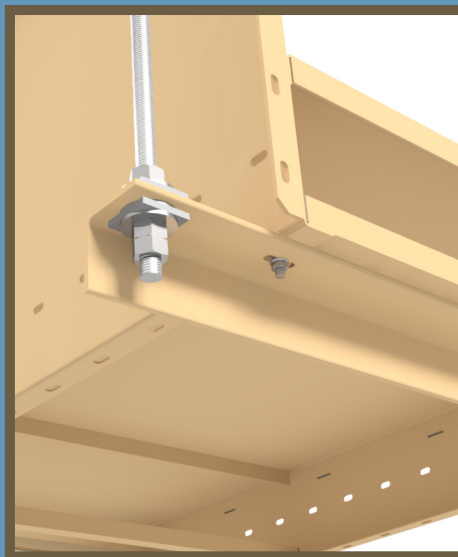
Low profile conveyors utilized short individual floor mounted support assemblies, formed from 10 gauge galvanized steel brackets.



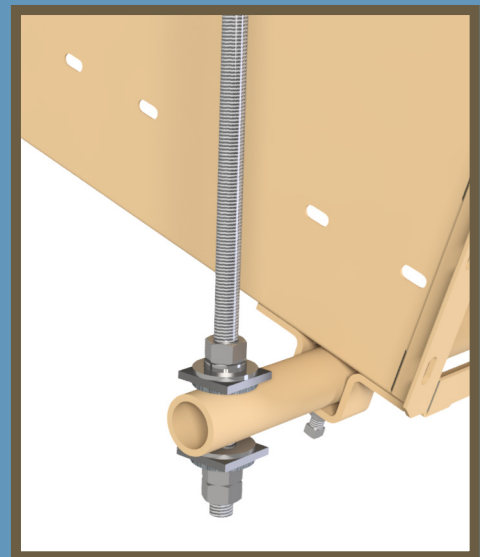
*Short Floor Support
Assembly*



*"H" Style Floor Support
Assembly*



*Overhead Support with
Angle Sill*



*Overhead Decline Support
with Pipe Sill*

Ceiling mounted conveyors are supported by 3/4" -10 all-thread rod, 1/4" steel hat bracket assemblies, and 1/4" x 3" x 3" steel angle. Ø2" Schedule 80 steel pipe is used for decline portions. Ceiling mounted conveyor supports are available with 1/4" thick rubber vibration isolators.

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9000 Series Uni-Belt™ Technical Specifications

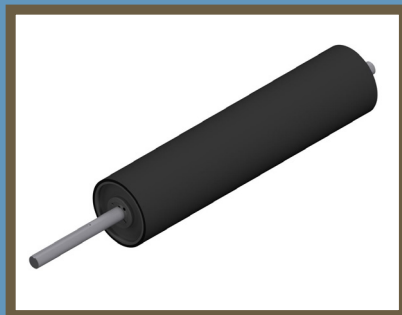
Belting:

For conveyors not exposed to public view that are load, unload, transport, or inclines/declines less than 7°, belting is composed of PVC 120 FS x FS (typical transport belting), or as specified by customer.

For conveyors exposed to level public view that are load, unload, transport, or inclines/declines less than 7°, belting is composed of black PVC 120 COS x FS (typical ticket counter belting), or as specified by customer.

For incline/decline conveyors greater than 7°, belting is composed of a 2-Ply 150 lb. synthetic fabric black rough top belt, with 1/8" black SBR rough top x bare bottom surface (poly-nylon), or longitudinal grooved, or as specified by customer.

Belting lacing is Clipper No. 2 with nylon coated wire cable. Longitudinal grooved belting uses Clipper UX-1 with nylon coated wire cable.



*DB 3/4" Drive Pulley with
3/8" Lagging*

Pulleys:

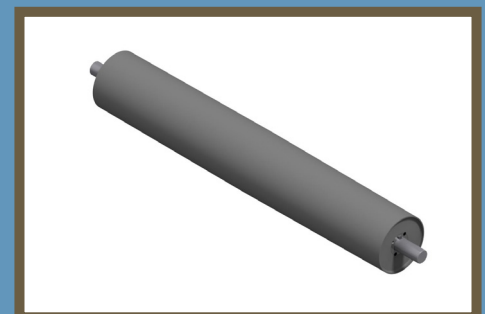
Drive, end, snub, and take-up pulleys are of steel construction.

Drive pulleys are equipped with taper bushed hubs and CRS shafts. Pulley diameters range from Ø6-3/4", Ø8-3/4", Ø10-3/4" and Ø12-3/4" overall, with 3/8" vulcanized lagging. Shaft sizes range from Ø1-7/16", Ø1-11/16", Ø1-15/16" and Ø2-3/16".

All non-driven end pulleys are constructed of steel, crown faced or trapezoidal faced, Ø6", and equipped with taper bushed hubs with Ø1-7/16" (minimum) CRS shafts.

All take-up pulleys are of steel construction, crown faced or flat faced, Ø4" and equipped with taper bushed hubs and Ø1-7/16" (minimum) CRS shafts.

All snub pulleys are Ø4", crown faced or flat faced steel construction, with Ø1-7/16" steel CRS welded shafts, or with optional taper bushed hubs.



Ø4" Snub Pulley

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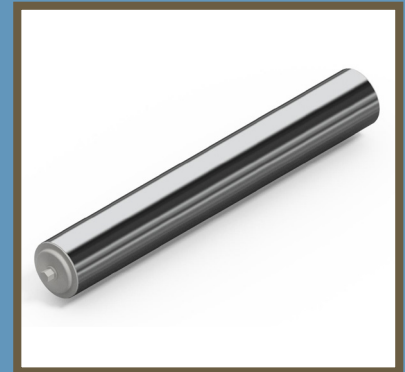
9000 Series Uni-Belt™ Technical Specifications

Return Rollers:

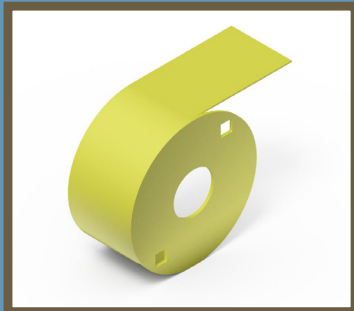
For belt conveyor delivery speeds up to 150 FPM, return rollers are of 11 gauge steel, Ø2-1/2" O.D. tubing with internally mounted sealed precision ball bearings and spring loaded 11/16" steel hex shafts.

For belt conveyor speeds above 150 FPM, return rollers are of 9 gauge steel, Ø3-1/2" O.D. tubing with internally mounted sealed precision ball bearings and spring loaded 11/16" steel hex shafts.

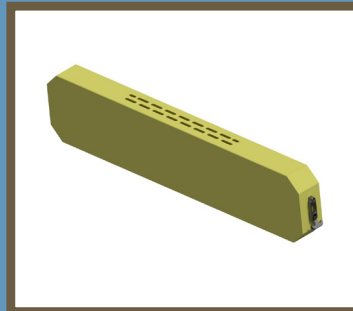
All return rollers mount between galvanized brackets on the inside portion of the conveyor bed.



*Return Roller
with Hex Shaft*



Pulley Finger Guard



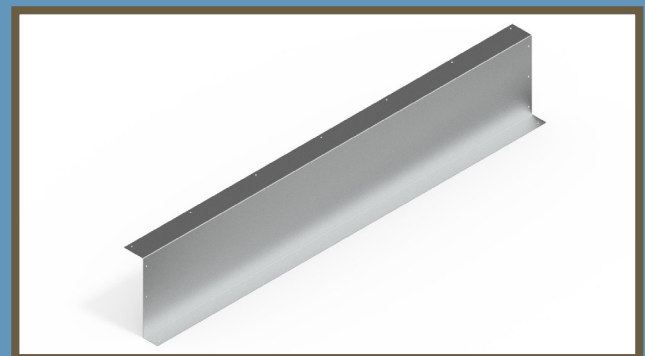
Belt/Chain Guard

Safety guards:

Pulley finger guards are available for load/unload belt configurations. Finger guards and belt/chain guards are constructed of 14 gauge steel. Belt/chain guards are powder coated safety yellow, feature slots for visual chain/belt inspection, and are available with a flexible T-handle style draw latch for easy top portion removal.

Trim and Finish:

Trim and cladding consists of either powder coated 12 gauge HRS, or 12 gauge 304 stainless steel with #4 brush finish. Finishes for HRS conveyor frames, side guards and supports are powder coated to customer specified colors.



*Stainless Steel Back Guard for
Ticket Counter Conveyor*

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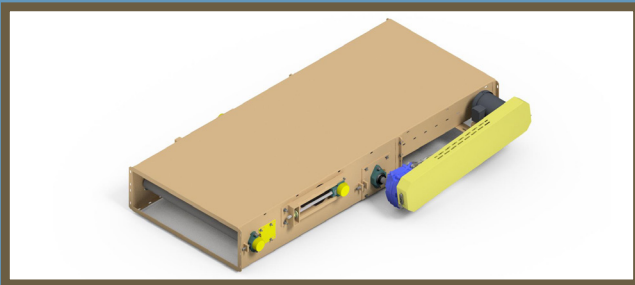
9000 Series Uni-Belt™ Technical Specifications

Drives:

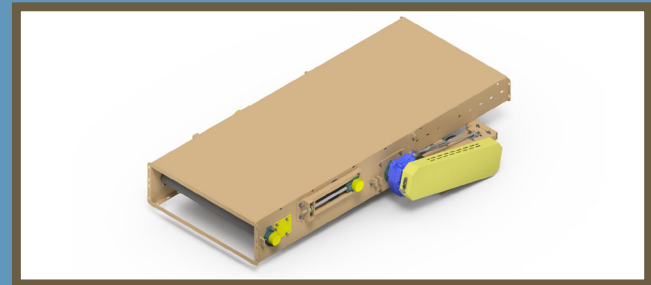
A variety of drive configurations are available:

- Chain and sprocket with inline helical reducer.
- V-belt and sheave with shaft mount reducer.
- Right angle shaft mount reducer.
- Motorized drive pulley.

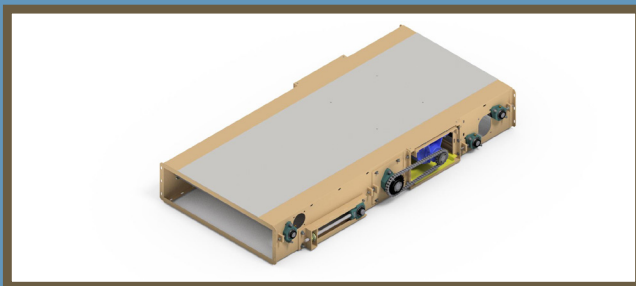
Below are just a few illustrated examples of available drive assemblies:



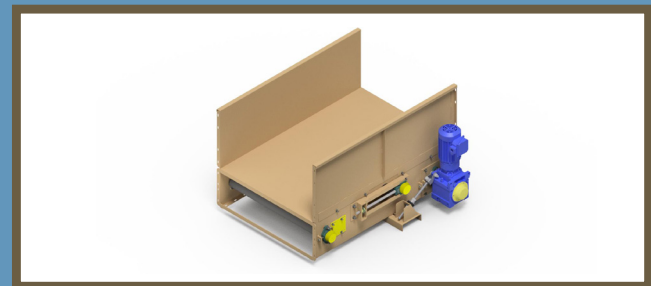
Standard Configuration Center Drive Assembly with V-Belts and Sheaves



Underslung Configuration Center Drive Assembly with V-Belts and Sheaves



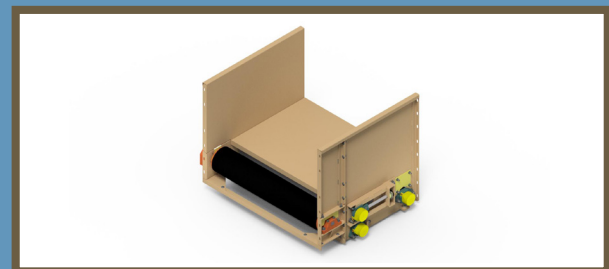
Ticket Counter Style Drive Assembly with Chain and Sprockets, Double Snub Section and Filler Plate



Center Drive Assembly with Right Angle Shaft Mount Reducer

Reducer manufacturer applications:

- Dodge - TXT® ABHS, Tigear-2®, Quantis®
- Sumitomo - HSM®, Hyponic®, Cyclo®, BBB®
- SEW Eurodrive® Gearmotors
- Van der Graaf Drum Motors
- Rulmeca Drum Motors



End Drive Assembly with Motorized Pulley

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