Gravity Roller Conveyor

ADVANTAGES:

- **Temporary or alternate means of conveying**
- **Available in matching standard belt widths**
- **Simple, low-cost, low-maintenance**

OVERVIEW:

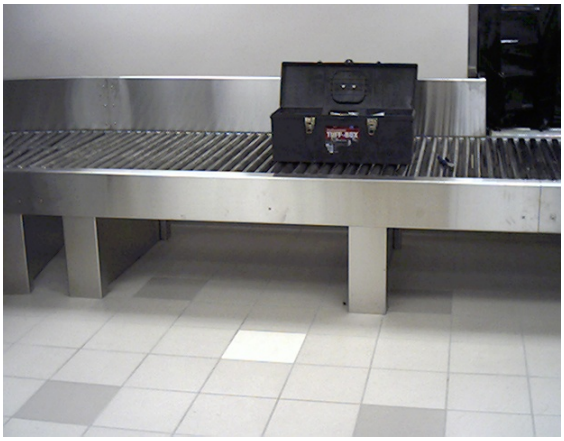
Gravity roller conveyors are an alternative means of conveying baggage and are typically used in the following situations:

- As a make-up device where space is at a minimum and / or volumes are low.
- As a baggage overflow collector conveyor.
- As a temporary conveying solution when existing systems are down for replacement or refurbishing.

Gravity roller conveyors consist of freewheeling, low-friction rollers which allow baggage to be fully supported, and still remain free to roll along the conveyor. Typically installed with a minimum angle of decline, baggage travels the length of conveyor using only gravity and baggage momentum.

Manufactured in standard 5'-0" (1524mm) and 10'-0" (3048mm) lengths, these conveyor beds are also available in custom lengths. Side guards are optional.

Gravity roller conveyors are simple, low-cost alternatives that require minimum maintenance.



CONSTRUCTION

- Rails: 12 gauge x 3½" (89mm) deep x 1½" (38mm) flange, powder coated.
- Rollers: 16 gauge x 1.9" (48mm) diameter, galvanized.
- Spacing: 2¼" (57mm) center to center

The simple construction of gravity roller conveyor consists of two rails that are spanned by 1.9" (23 mm) diameter rollers, which are spaced at increments of 2¼" (57mm). Each roller is spring loaded for easy removal and insertion.

G&S Airport Conveyor is an approved Hytrol distributor.

Customs Inspection Conveyor

ADVANTAGES:

- **Unique, ergonomically designed, automated inspection platform**
- **Available in standard widths and normal working elevations**
- **Stainless steel and wood panelling finish**

OVERVIEW:

The customs inspections conveyor is a unique, ergonomically designed conveyor that is intended to serve as an automated means of advancing, inspecting and clearing passenger baggage through customs, immigration and agriculture check points.

Each unit is designed so that baggage can be opened and physically inspected by officers on the conveyor. Also, a flat-deck area, located at the end of the unit, serves as a location for opened baggage to be re-packed.

Typical configurations incorporate foot switch control for belt operation and toggle switches for lane and 'assistance requested' indicators. Various options for system controls and indicators are available.

Upper portions of the conveyors are finished with stainless steel, while lower sections incorporate wood panels that can be finished with customer-selected laminates. To facilitate maintenance needs, access panels are conveniently located adjacent to drive components, and are easily removed.

All units are pre-wired and tested at the factory and are shipped ready to operate, once the unit is installed and power is connected.

Tapered Roller Assemblies

ADVANTAGES:

- **Smooth, alternate means of redirecting baggage**
- **Available in matching standard belt widths**

OVERVIEW:

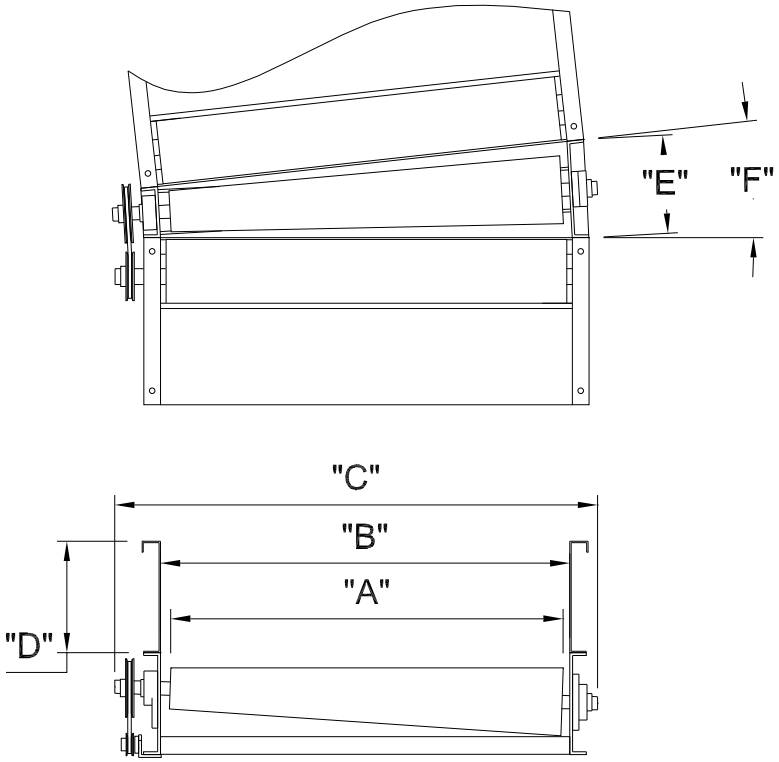
Tapered roller assemblies are an alternative means of transferring baggage through minor angular changes in flow, without affecting the orientation of the baggage relative to the conveying surface. These are commonly used to minimize the gap between two adjacent skewed conveyors, or to span a deviation angle that is less than power curves are capable of.

Available for all standard conveyor widths, tapered roller can be single, double or triple roller combinations with the following angular ranges:

- Single Roller: 3° to 6° deviation
- Double Roller: 7° to 11° deviation
- Triple Roller: 12° to 16° deviation

CONSTRUCTION

Tapered roller assemblies consist of lagged tapered rollers, which are slave-driven from the preceding conveyor and mounted in a rigid, mild steel frame.

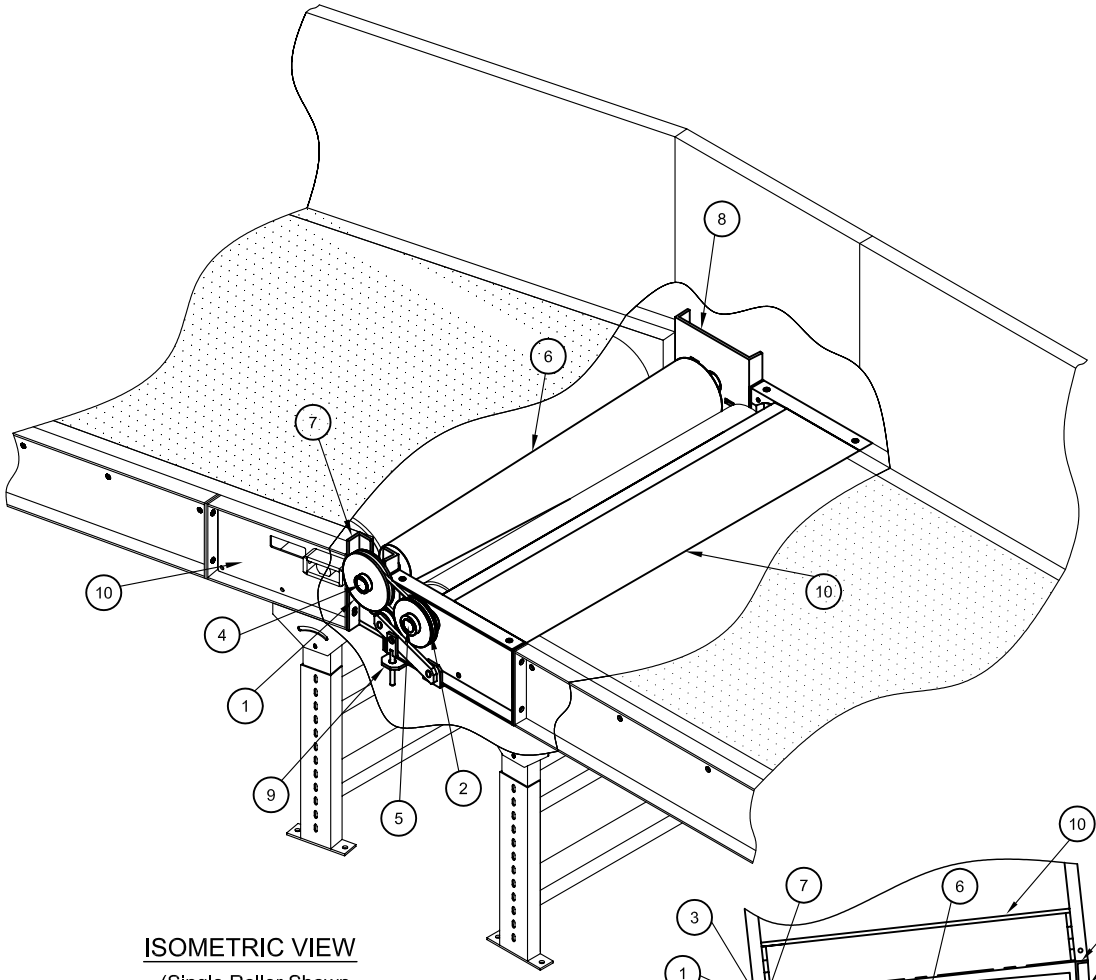


* Single Taper Roller Shown

TAPERED ROLLER ASSEMBLY SPECIFICATIONS	
Description	**G&S Standards**
Dimensions	
Belt Width ("A") **	30" (762mm), 33" (838mm), 36" (914mm), 48" (1219mm)
Betw een Frame Width ("B")	33"(838mm), 36" (914mm), 39" (991mm), 51" (1295mm)
Overall Width ("C")	36" (914mm), 39" (991mm), 42" (1067mm), 54" (1372mm)
Sideguard Height ("D")	0" (0mm), 9" (229mm), 12" (305mm), 21" (533mm)
Conveyor Length ("E")	Single - 8 13/16" (224mm) Double - 17⅝" (448mm) Triple - 26 7/16" (671mm)
Deviation Angle ("F")	Single - 3°-6° Double - 7°-11° Triple - 12°-15°
Rollers	
Tapered Roller CL. Dia (lagged)	Ø3.8" (97mm), Ø3.6" (91mm), Ø4.1" (104mm), Ø5.4" (137mm)
Specifications	
Speed	To suit adjacent conveyor

** Other belt widths available with extended lead times.

TAPERED ROLLER ASSEMBLY



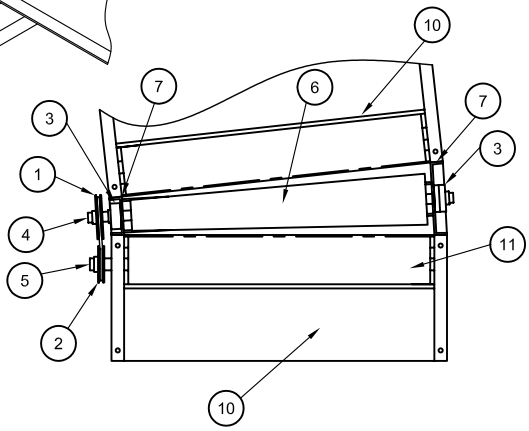
ISOMETRIC VIEW

(Single Roller Shown.
Double or Triple Rollers Available as
Required by System Layout)

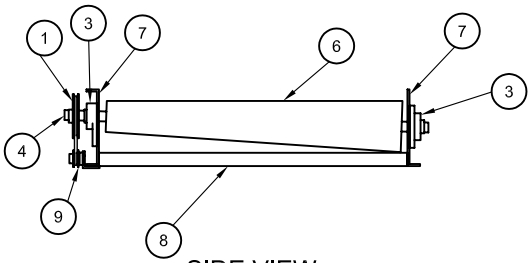
ITEM	COMPONENT
1	*Driven Sheave/Sprocket
2	Driver Sheave/Sprocket
3	Bearing
4	Tapered Roller Shaft
5	Custom GT Tail Shaft
6	Lagged Tapered Roller
7	Side Frame
8	Crossmember
9	Take-up Assembly
10	GT Tail Unit
11	GT Tail Roller

**Note: Tapered Roller is "Slave" Driven from Tail of Adjacent Conveyor.

*Design is dependant on site conditions and access.



TOP VIEW



SIDE VIEW