

ADVANTAGES

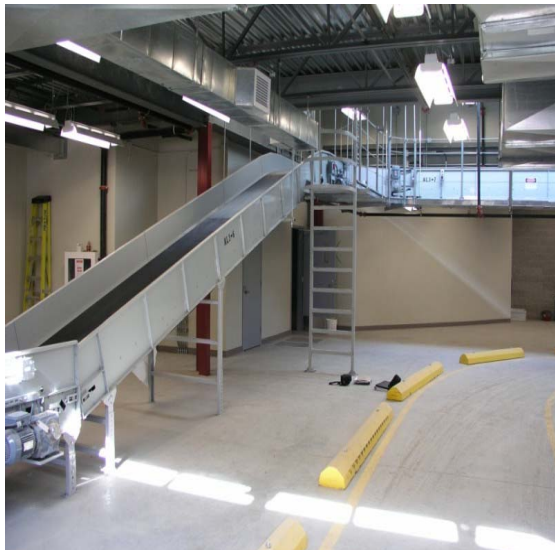
- **Robust and reliable design**
- **Modular design allows flexibility and versatility of system design**
- **Belt widths available from 24" (610mm) wide through 48" (1219mm) wide**

OVERVIEW

The general transport conveyor is designed to move baggage quickly through today's intricate airport configurations. Generally unseen by the public, these conveyors smoothly and reliably transport baggage through the terminal to make-up units for destination batches. Stand alone, or combined with power curves and sortation devices, baggage can travel effectively and efficiently to meet or exceed the demands of any airport.

GENERAL

The design of the G&S Airport Conveyor General Transport conveyor meets or exceeds all industry standards. The modular component design allows for complete flexibility and versatility in meeting the needs of simple baggage transfers through to complex bomb-detection and sortation systems.



The modular components consist of a *drive section*, one or more *slider bed modules*, and a *tail section*. To accommodate changes in elevation, a standard angle *knuckle module* can be added. General transport conveyors can transfer bags both horizontally and on inclines or declines up to 23°.

Each component is painted or powder coated in a machine grey color. The resulting finish exhibits exceptional durability and appearance.

SLIDER BED MODULE

- Formed 12 gauge steel construction
- Bed lengths from 3"(76mm) to 7'-10 ½" (2400mm)

Each modular slider bed is comprised of four major components: a slider deck pan, two side panels, and a return roller. Each standard 7'-10 ½" (2438mm) long module, or custom length fill module, bolts up to the next unit to form a smooth, continuous channel which allows both the conveyor belt and baggage to travel freely.

TAIL SECTION

- 15" (381mm) long
- Removable flank plates to facilitate easy removal of rollers or other components for maintenance purposes

Each modular tail unit is fitted with a 6" (152mm) diameter roller assembly. This unique design incorporates both a stationary shaft and a live roller, utilizing piloted flange bearings. (An external bearing model is also available.) Screw adjustment is provided at both sides for conveyor belt tracking.

DRIVE SECTION

- 47¼" (1200mm) long
- Removable flank plates to facilitate easy removal of rollers or other components for maintenance purposes

Each drive section is manufactured in modular form and typically placed at the head of the conveyor. Where necessary, an

intermediate drive unit can be placed at any point along the length of the conveyor.

Drives are individually fitted with side guards on both sides of the conveyor, except where baggage is being loaded or unloaded.

The drive unit consists of four rollers: *drive*, *head*, *snub* and *take-up*. The standard diameter of a drive roller is 7½" (191mm), and the remaining rollers are 6" (152mm) diameter.

Screw adjustment is provided at both sides for conveyor belt tracking.

The head, snub, and take-up rollers all incorporate both a stationary shaft and a live roller which uses piloted flange bearings. The drive roller has a live shaft positioned between precision, self-aligning ball bearings. An optional drive module that incorporates external bearings on all rollers is also available.

Drive Section Ratings:

- Light Duty:
 - 300 lb (136 kgs) maximum belt pull
 - 15'-0" (4572mm) maximum unit length
 - 40 lb/ft (59.63 kg/m) maximum live load
- Normal Duty:
 - 750 lb (340.91 kgs) maximum belt pull
 - 25'-0" (7620mm) maximum unit length
 - 40 lb/ft (59.63 kg/m) maximum live load
- Intermediate Duty:
 - 1000 lb (454kgs) maximum belt pull
 - 40'-0" (15240mm) maximum unit length
 - 40 lb/ft (59.63 kg/m) maximum live load
- Heavy Duty:
 - 50'-0" (12192mm) maximum unit length
 - 1250 lb (568.18 kgs) maximum belt pull
 - 40 lb/ft (59.63 kg/m) maximum live load

POWER TRANSMISSION

G&S Airport Conveyor uses integral 90° motor / gearbox reducers; optional drive methods are available.

KNUCKLES (NOSE OVER SECTION)

- Typical angles: 7°, 15°, 18°, 20°, 22°, and 23°
- 10'-0" (3048mm) nose-over radius

At positions where elevation changes are required, a custom engineered knuckle / nose-over section is inserted between slider bed modules. The addition of this knuckle module provides a smooth transition for the conveyor belt and baggage, while accommodating the angle of inclination or declination. Typically, inclines should not exceed 20°, while declines should be kept to 22°.

SUPPORTS

Typical floor supports are 'H'-type design leg sets, fully adjustable in height.

Typical ceiling supports are ¾" (19mm) diameter threaded rod, complete with cross sills of appropriately sized angle, channel, or pipe, depending on whether the section is horizontal, inclined or declined.

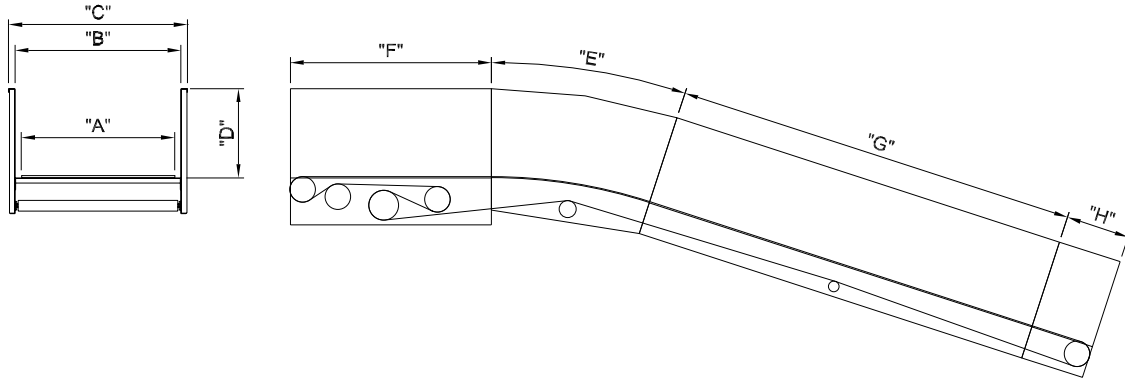
CONVEYOR BELTING

Belting has a PVC top side finish and a low friction underside surface. Various belting options are available and are listed on page 3.1.4.

Belting is joined to form a continuous loop using mechanical lacing and flexible, nylon-covered steel cable joiner pins.

BEARINGS

- Self-aligning, pre-lubricated and anti-friction bearings.
- Rated: L-10 life of 70,000 hours.



GENERAL TRANSPORT CONVEYOR SPECIFICATIONS	
Description	G&S Standards
Dimensions	
Belt Width ("A")	24" (610mm), 30" (762mm), 33" (838mm), 34" (864mm), 36" (914mm), 39" (991mm), 48" (1219mm)
Between Frame Width ("B")	27" (686mm), 33" (914mm), 36" (914mm), 37" (940mm), 39" (991mm), 42" (1067mm), 51" (1295mm)
Overall Width ("C")	30" (762mm), 36" (914mm), 39" (991mm), 40" (1016mm), 42" (1067mm), 45" (1143mm), 54" (1372mm)
Side Guard Height ("D")	0", 9" (229mm), 12" (305mm), 21" (533mm)
Incline/Decline Angle ("E")	7°, 15°, 18°, 20°, 22°, 23°
Drive Module Length ("F")	3'-11¼" (1200mm)
Standard Module Length ("G")	7'-10½" (2400mm)
Tail Module Length ("H")	1'-3" (381mm)
Overall Conveyor Length	7'-0" (2159mm) to 50'-0" (15,240mm)
Rollers	
Drive Roller Dia (lagged)	Ø 7 ⁵ / ₈ " (194mm)
O/S Drive Roller Dia (lagged)	Ø 8 ¹ / ₂ " (216mm)
Take-up Roller Dia	Ø 6" (152mm)
Head Roller Dia	Ø 6" (152mm)
Tail Roller Dia	Ø 6" (152mm)
Knuckle Snub Roller	Ø 4" (102mm)
Specifications	
Speed	90 – 400 ft/min (27.43-121.92m/min) –as per specs
Load Capacity (Live Load)	40 lbs/ft (59.52 kgs/m) max.

Drive Options				
Application	Standard		Optional	
	Make	Model	Make	Model
90 Deg. Reducer	SEW Eurodrive	ST – TorqLOC SA – Hollow Shaft	Morse	
			Dodge	Ti-Gear
Motorized Pulley	Van Der Graaf		BDL	DuraDrive
			Interoll	
Conventional Belt Drive			Baldor (motor)	
			Reliance (motor)	
			Dodge (speed reducer)	TXT

Belting Options				
Application	Standard		Optional	
	Make	Model	Make	Model
Public View; Load/Unload, Transport; Level - 7° Inc/Dec	Nitta	BLC-12A	Ammeraal Beltech	PHR 2-220 1/32 x Bare FR
			Habasit	NHM-8ESBV
			Siegling America	E8/2 U0VSH MT-FR Black
Non-Public View; Load/Unload, Transport; Level -7° Inc/Dec	Nitta	BLC-18DKF2	Ammeraal Beltech	EX 10/2 0+00 AS FR
			Habasit	NNT-10ESBU
			Siegling America	E12/2 V1/V1 M-FR Black
Non-Public View; Inc/Dec > 7°	Nitta	BLRB-16A	Ammeraal Beltech	EX 10/2 0+A32 Black AS FR
			Habasit	NSL-11ESBV
			Siegling America	E8/2 U0/V15 LG-FR

***Refer to motor manifest for specific belt and drive types used