

FIVE STAR AIRPORT ALLIANCE

Baggage Handling Systems | Engineering | Manufacturing | Installation | Parts & Services



Horsley 45 Degree Merge

PRODUCT DESCRIPTION

FEATURES AND BENEFITS

- Superior Quality
- High Capacity
- Extremely Reliable
- Easily Maintained

Introduction

The Horsley 45 Degree Merge conveyors are designed to provide accurate timing and precise merging of bags from one conveyor line to another.

The Horsley 45 Degree Merge is a cycling conveyor designed to accurately insert baggage from one conveyor line into the baggage flow of another. The unit provides precise indexing and throughput with rapid start/stop capabilities at high speeds based on system applications.

The 45 Degree Merge is typically used as part of a queuing system to ensure accurate timing and merging of baggage from one line to another. It can be utilized with queue conveyor, power turns, transitions on to flat plates or straight conveyors.

Frame and Track

The frame consists of standard modular assemblies bolted together to form a support structure and guide for the pallet assemblies. The construction is of structural steel supported on 3 feet 4 in. centers, providing a rigid, level surface for the tracks and frame.

Bed and Sideguard

The bed and sideguards are constructed of 11-gauge hot-rolled steel and are available at variable bed widths and sideguard heights.

Drive Assembly

The drive system consists of a gear reducer powered by an electric motor using dual drive belts, and also features chain connected pulleys. This system ensures smooth starting and stopping and reduces the chance of belt slippage.

Electrical Controls

All Horsley 45 Degree Merge devices are furnished with clutch/brake motors and overload protection. VFD drives are available for variable speed adjustment.

**COMPLETE LINE OF
BHS PRODUCTS**

- Claim/Make-Up Units
- 45° Merge
- 45° Take-Away
- Super Pusher
- Power Face Diverter (PFD)
- Vertical Sorter/Merge (VSM)
- Transport Conveyor
- Ticket Counter
- Oversize Bag Slide
- Queue Conveyor
- Scale & Dispatch Unit
- Extendable Conveyor
- CAPIS - Custom Inspection Conveyor

TECHNICAL SPECIFICATIONS

Characteristics	
Width (Overall)	Variable
Length (Overall)	Variable
Length at Centerline	Variable
Height	Variable
Sideguard Heights	12 in. Custom heights / transition sections available
Weight	1400 lbs.
Bed Width (BG)	Variable (common sizes 27,33,37,39,49 and 57 in.)
Bed Material	10 gauge hot-rolled steel
Sideguard Material	12 gauge hot-rolled steel
Belt Width	Variable (3 in. less than BG)
Belt Length	Variable
Belt Material	Black, PVC 150 PIW, FSXFS
Belt Speed	Variable
Drive Motor	3 HP electric clutch/brake, 3 phase, 460 V, 60 Hz, TEFC
Reducer Type	Shaft-mounted helical gear reducer
Drive Belt Type	As required
Drive Pulley	8.75 in. diameter apex or trapezoidal pulley available
Snub Pulley	4 in. diameter
Take-Up Pulley	4 in. diameter apex pulley with rubber lagging. Trapezoidal pulley optional.
End Pulley	Variable 4 in. diameter apex pulley with rubber lagging. Trapezoidal pulley optional.
Pulley Shaft Sizes	1.438 in. diameter, 1045 A.I.S.I. cold-rolled steel ground and polished 1.688 in. diameter, 1045 A.I.S.I. cold-rolled steel ground and polished.
Merge Direction	Left or right available
Transition	2 in. drop in height to special 76.75 in. merge receiving bed

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**FIVE STAR
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EXCLUSIVE MANUFACTURER OF HORSLEY AND G & T PRODUCT LINES

