

# FIVE STAR AIRPORT ALLIANCE

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



## Horsley SLOPE PLATE CAROUSEL

### PRODUCT DESCRIPTION

#### FEATURES AND BENEFITS

- Superior Quality
- Attractive Appearance
- High Capacity
- Heavy Duty
- Extremely Reliable
- Easily Maintained

#### Introduction

The Horsley slope plate device is constructed of articulating contoured carriages forming a continuous rotating sloped surface. The unit can be automatically fed via belt conveyor(s) and is operated continuously at 90 feet per minute. The usable width of the conveying surface is 59 inches.

The overall outside device dimension is 16 ft. 0 in. This rugged, heavy duty device is built and installed to provide a life that exceeds industry standards.

#### Frame and Track

The frame consists of standard modular assemblies bolted together to form a support structure and guide for the carriage assemblies. The construction is of structural steel, supported on center, providing a rigid, level surface for the tracks and frame.

#### Deck

The claim unit deck can be either a flat or beveled design depending on the aesthetic appeal desired. In either case, the top of the deck is constructed with 3/4 in. fire retardant plywood supported by either a wooden or steel platform. The deck has a lockable access hatch for easy maintenance.

#### Carriage Assembly

Each modular carriage assembly consists of a steel support for the upper and lower polyurethane guide wheels and the stainless steel carriage plate. Each module is connected at its lower end for a continuous drive linkage.

#### Drive Assembly

The Drive assembly consists of a heavy-duty, roller chain driven by a motor through a gear reducer and drive sprocket. The roller chain engages three modular pallet assemblies at all times.

#### Electrical Controls

The Slope plate devices are furnished with either soft-start or VFD's for smooth start-ups, start warning, emergency stops and overload protection.

#### Trim

For installation in public claim area, the outer peripheral guards and trim strips are Type 304 stainless with #4 finish. For installation in non-public sortation areas, the outer peripheral guards and trip strips are steel, finished in wear and rust-resistant powder coat paint. A 3 in. high toe space is provided at the base of the peripheral guards.

**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	Make-up Device	Claim Device
Width of Conveyor Surface	Approx. 59 in.	Approx. 59 in.
Slope of Conveying Surface	21 degrees	21 degrees
Plate Material	12 GA stainless steel pallets	12 GA stainless steel pallets
Load Capacity	250 lbs. / linear foot	250 lbs. / linear foot
Conveying Speed	90 FPM nominal	90 FPM nominal
Pallet Support Wheels	Polyurethane wheel with sealed ball bearing	Polyurethane wheel with sealed ball bearing
Bumper Material	50-60 durometer molded rubber	50-60 durometer molded rubber
Finish Trim	Hot-rolled steel, powder coat painted	304 stainless with #4 brush finish
Horsepower Requirements	5 HP (additional as needed for redundancy or load)	5 HP
Outside Radius	7 ft. 9 in.	7 ft. 9 in.
Soft Start	Electronic	Electronic
Drive	HD roller chain	HD roller chain
Unload Height	16 in. minimum	16 in. minimum
Toe Space	16 in. minimum	16 in. minimum

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