



## Model 787 Inclined Claim Conveyor Application

The inclined friction drive claim conveyor provides an endless inclined conveying surface, enabling it to serve two primary functions within the baggage handling environment:

- **Baggage Reclaim** – Usually located in passenger areas and fully clad in stainless steel.
- **Flight Make-Up** – Usually located within the baggage hall and supplied as an integral part of a Departures or Transfer bag handling system. The conveyor is usually finished in galvanised or painted mild steel for this application.

### Model 787 Inclined Claim Conveyor

The Model 787 Claim Conveyor is designed for ease of installation and maintenance. It may be fed by multiple conveyor lines. A complete inclined claim conveyor circuit is made up of any number of straights, normal curves, or reverse curve sections.

The Model 787 Claim Conveyor has the ability to be supplied with raised sidewalls opposite feed points and kick strips around the outer periphery of the carousel circuit. An infill can also be provided in the centre of the claim conveyor regardless of the shape of the carousel circuit.



| Features                             | Application Benefits  |
|--------------------------------------|---|
| Friction Drive                       | High reliability and ease of maintenance  |
| Inverter Controlled Drive            | Produces soft start up, reducing wear to mechanical components  |
| Speed                                | Typically 27m/min to suit reclaim and make-up activities  |
| High Product Load Capacity           | Performance of claim conveyor not sacrificed when baggage is "double stacked". Dynamic Capacity up to 120Kg/m |
| Single or Multiple Drive Units       | Increases the maximum length of claim conveyor circuit  |
| Precision Bearing Wheels on Slat     | Eliminates wear to slats and support frame  |
| Multiple Bed Finishes in one Circuit | Enables claim conveyors that cross both "land" and "air" sides to have different finishes                     |
| Internal or external curves          | System layout flexibility   |
| Modular Design                       | Facilitates installation and any subsequent modifications   |
| Design Flexibility                   | Accommodate variations in circuit shape, building restraints etc.   |

| Design Options  | Standard Variations  |
|-----------------|--|
| Slat Width      | 1200mm   |
| Drive Sizes     | 2.2 Kw   |
| Slat Type       | Rubber or PVC. Fire retardant to ISO 340 also available        |
| Center Infill   | Stainless steel, carpet or timber type                         |
| Material Finish | Painted mild steel, galvanised steel or stainless steel finish |



## Model 787 Inclined Claim Conveyor General Description

### Circuit Assembly

The friction driven inclined claim conveyor is assembled into a continuous loop built up using modular units. The main components are straight beds, normal curves, reverse curves and drive units. The straight beds are a maximum of 3.0m in length, normal curves have a mean radius of 1500mm and are supplied up to a maximum angle of 45°, the reverse curves have a mean radius of 4500mm and supplied up to 30° maximum angle. The drive unit is fitted into a straight bed, usually at the end of the most heavily loaded straight section. A single drive unit has sufficient capability to drive a claim conveyor with a chain length of 50 to 75mtrs depending on loading. When the claim conveyor installation is above 75mtr additional drive units are added.

### Bed Section

The track support fabrication is manufactured from rolled hollow section and press formed steel and is utilised to support the central chain track in addition to the shrouds, wheel support angles, kick plates and adjustable supports. The track support fabrication is fitted at intervals of 1.5 metres.

### Chain

Tow chain links are made of cast aluminium. Each link is provided with a take-up mechanism which is used for adjusting the length of the whole closed chain loop. A wheel with a quiet running polyurethane tyre is fitted on each chain link providing side guidance.

### Slat and Slat Assembly

Synthetic rubber slats are 1200mm long and 8mm thick. A pressed steel slat carrier is mounted on each chain link at 250mm pitch and carries a urethane tyred support wheels at both top and bottom for quiet, smooth operation. Rubber slats and support buffers are mounted to each carrier to provide a continuous carrying surface.

### Friction Drive

The friction drive uses a set of elastically applied pinch rollers which transfer friction force via a driven ribbed belt to the tow chain. Slat carriers fitted with rubber slats are connected to each link, thus moving all slats around the circuit.

The carousel is controlled with a frequency inverter to ensure the equipment gives a smooth start even when fully loaded.

