DAIFUKU LOGAN

Always an Edge Ahead

Horizontal
Claim Conveyor

Model 688

Horizontal Claim Conveyor

Application

The horizontal claim conveyor provides an endless horizontal conveying surface, enabling it to serve three primary functions within the baggage handling environment.

- **Baggage Reclaim – Predominantly located in the passenger claim area which is clad in stainless steel with non passenger areas clad in either galvanised steel or painted mild 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.**
- **Sortation Loop – A high speed variant is used in conjunction with pushers or camsorters to give a re-circulating sorter outputting to chutes or conveyors.**

Model 688 Horizontal Claim Conveyor

The Model 688 claim conveyor is a proven design having easy installation and maintenance properties. It provides the ability to transport baggage in all three planes by the use of standard modular sections. A complete claim conveyor circuit is made up of any number of curves, straights, incline and decline sections.
The Model 688 claim conveyor has been designed to provide sidewalls and kick strips on both the inside and / or outside edges of the circuit and at specific points or along the full length of the circuit. An infill can also be provided in the centre of the claim conveyor no matter what the shape of the carousel circuit.

Features	Application Benefits
Caterpillar Drive	Positive drive with 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
Lube for Life Chain Wheels	Reduces maintenance costs and requirements
High Product Load Capacity	Performance of claim conveyor not sacrificed when baggage is “double stacked”. Dynamic capacity upto 100Kg/m
Single or Multiple Drive Units	Increases the maximum length of claim conveyor circuit
High Density Poly-ethylene Skids on Slat Supports	Reduces 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
Incline and decline capability	Allows different loading and unloading heights if required
Modular Design	Facilitates installation and any subsequent modifications
Design Flexibility	Accommodate variations in circuit shape, building restraints etc.

Design Options	Standard Variations
Slat Width	812mm or 980mm
Drive Sizes	2.2, 3.0 or 4.0 Kw
Sidewalls	Variable throughout
Sidewall Height	Zero, 300mm
Incline / Decline	From 5o to 25o (Recommended max +/- 10o)
Slat Type	Rubber or PVC. Fire retardant to ISO 340 also available
Centre Infill	Stainless steel or carpet type
Material Finish	Painted mild steel, galvanised steel or stainless steel clad
Chain Lubrication	Optional automatic chain lubricator minimises manual intervention

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Model 688 Horizontal Claim Conveyor General Description

Circuit Assembly

The horizontal claim conveyor is assembled into a continuous loop built up using modular units. The main components are straight beds, horizontal curves, vertical curves, incline / decline beds and drive units. The straight beds are a maximum of 3.0m in length, horizontal curves have a centre line radius of 1143mm and are supplied to a maximum angle of 90o, vertical curve sections have a mean chain track radius of 1143mm. The incline and decline beds are available from 5° to 25° but in operation it is recommended that an incline of 10° is not exceeded. The drive unit is fitted into a straight bed, usually at the end of the most heavily loaded straight section. Standard conveyor height being from 420mm to 450mm. A single drive unit has sufficient capability to drive a claim conveyor with a chain length typically up to 100m, above this additional drive units are added.

Bed Section

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

Chain

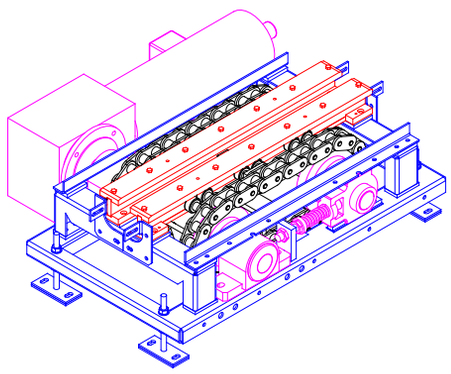
At each joint in the slat chain there are two wheels on each axis. The wheels are sealed for life precision bearings with a polyurethane tyre held on the axles by washers and split pins. A long pair of links connects the axles of the vertical wheels and a short pair of links connects the axles of the horizontal wheels. To each pair of links is bolted a slat channel. The chain is tensioned on final assembly or installation of the claim conveyor. Maximum chain pull 650Kg.

Slats

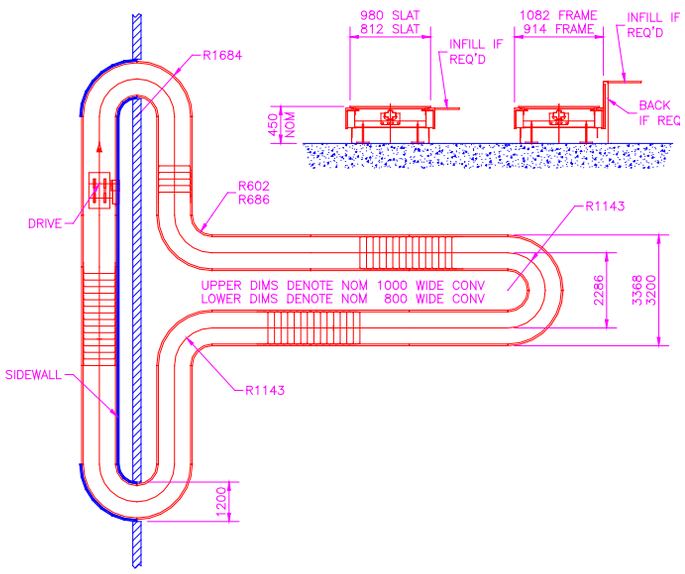
Rubber slats are 305mm long and 6mm thick, PVC are 340mm by 4.5mm. Slats are bolted to the formed slat support channels. The slat channels are fixed to the chain at 203mm pitch.

Caterpillar Drive

The drive to the chain is transmitted through the Nylatron (molybdenum disulphide impregnated nylon) slat mounts in alternate chain links. The drive unit drives a twin chain and sprocket assembly. Four carriages, with drive dogs, are mounted between the twin chains and connect with the Nylatron slat mounts and thus impart drive to the main chain.



ISOMETRIC VIEW OF CATERPILLAR DRIVE



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