



## STANDARD CONVEYORS

### Powered Rollerbed

The full width rollers are manufactured from 127mm outside diameter tube with 6.3mm wall. The tube is manufactured to British Standard 6323 Part 5 Grade 1.

The ends of these rollers are radiused to 4mm to avoid damage on pallet bases. The roller shafts are a minimum of 1.5" diameter (38.1mm) and roller concentricity when running is within  $\pm 1.5$ mm.

The roller conveyor surface will be level with adjacent rollers to within 3mm.

Standard roller shafts are machined to accept keyed drive sprockets and positive lateral location of the sprockets to ensure accurate line up of chains is achieved by machined grooves in the shaft and the use of spring rings.

The rollers are mounted to the conveyor frames with 2 bolt cast iron flange cartridge self-aligning bearings amply sized to handle the imposed loads and are of the 'greased for life' type.

All rollers on powered and friction driven conveyor decks are driven.

Double simplex sprockets are keyed to each roller drive shaft and adjacent roller sprockets are connected together with 5/8" Pitch B.S. roller type chain to provide a fully live conveyor bed.

Roller conveyor decks have generously flared lead-in sections for ease of pallet / ULD entry.

The rollers will be pitched at a maximum of 305mm (12") along the conveyor deck as designated by IATA standards and are capable of supporting 945kgs for each 300mm of conveyor length.

Each 3m length of conveyor is capable of supporting a 6,800kg ULD.

Roller transition decks have 50mm high side guides both sides. The lowering workstation will have a side guide height of 25mm for ease of access.

Power Conveyor Drives are electrically powered employing 1.1kw. geared braked drive motors for each section of conveyor.

Powered Conveyors have a simple means of drive disconnection to allow manual operation of the equipment in the event of electrical supply failure.

The gaps between the rollers on certain conveyors are infilled with steel durbar plate bolted to the frame. The top surface of the infill will be a minimum of 12mm below the top of the roller. These infills will support the weight of personnel walking on the conveyor. Infills are fitted only where stated in the Particular Specification.

The conveyor linear speed will be 18 metres (60ft / min) per minute in both directions.

### Gravity Rollerbed (Narrow Edge Leading)

**Construction:** The rollerbed is fabricated from mild steel channel and angle section members to provide a robust framework for mechanical operation.

**Side Guides:** Fabricated from 150 x 75mm mild steel rolled angle.

**Roller Stringers:** Fabricated from 75 x 50 x 6mm mild steel rolled sectional angle.

**Cross Braces:** Fabricated from 80 x 80 x 3mm mild steel rectangular hollow section.

**Diagonal Braces:** Fabricated from 50 x 50 x 3mm mild steel rectangular hollow section set at 45 degrees.

**Support Legs:** Fabricated from 152 x 76mm mild steel rolled sectional channel or a hollow section of similar support characteristics.

**Top Deck:** Infilled and forming 2 No. walkways from 3mm durbar plate.

**Roller Deck:** 3 No. lanes of gravity roller conveyor.

**Rollers:** 63mm diameter, 3mm wall thickness at 450mm long and bright zinc plated.

**Roller Spindles:** 16mm diameter, round bar, spring loaded and bright zinc plated.

**Pallet Stops:** 2 No. manual flip-up type fitted at either end.

**Finish:** One coat of etching high build primer and one top coat of gloss to customer's specification and colour.

**Overall Dimension:** 3400mm x 2600mm.

**Optional Extra (included):** Mild steel infills between all rollers.

