



**ANSIR  
SYSTEMS**

# Metering Conveyor Tech Specs



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## Function

The metering conveyor is generally used as a queuing conveyor prior to conveyor junctions, merges or places where accumulation or separation is required. The conveyor is designed to cope with frequent stop /starts.

Whilst the basic design of the conveyor is standard, it is sufficiently flexible to accommodate variations in belt type, sidewall height, overall length and conveying speed.

## Features

- End rollers with profiled finger guards to eliminate trap points for personnel and product.
- Internal bearings are fitted to head, tail and take-up rollers for ease of maintenance and quick changeover.
- Final drive between the gearbox and drive pulley is via a direct shaft mounted gearmotor.
- Cut outs are provided in the conveyor frame to allow for rollers to be removed from the side.
- Screw type belt take-up design to allow adjustment from one side.
- Flexible design that allows for variations in length up to 2500 mm. The standard metering conveyor is typically 1200 mm in length.

## Technical Specifications

### Frame

5 mm thick mild steel formed channel 290 mm deep with 40 mm flanges.

### Slider Beds

Fabricated 3 mm mild steel, galvabond finish. Welded angle stiffeners on the underside provide added rigidity. The slider bed is bolted between the two side frames sitting 10 mm above to give an overall height of the conveyor of 300 mm.

### Side Guides

3.0 mm mild steel formed to a height of 300 mm above the conveyor bed and rigidly fastened to the conveyor. Guides are installed to eliminate any interference with baggage flow and to prevent damage.

### Drive Pulley

Constructed from 168 mm diameter, 7 mm nominal wall thickness mild steel tubing with UCS208 press fit, internally mounted, grease packed, sealed for life, precision bearings that mount to a non-rotating 40 mm bright steel shaft.

### Drive Shaft

35 mm bright steel, keyed to transfer drive from the motor gearbox. The complete drive roller and shaft assembly is mounted to the conveyor frame utilising UC 207 precision bearings and 2 bolt housing.

### Motor / Gearbox

A shaft mounted motor gearbox connects directly to the conveyor drive roller shaft. The transmission equipment is adequately sized for the load, speed, temperature and operating conditions specified.

### End Roller

Machined crowned 90 mm diameter 6 mm nominal wall thickness mild steel tubing with UCS208 press fit, internally mounted, grease packed, sealed for life, precision bearings that mount to a non rotating 40 mm bright steel shaft.

### Take-up Roller

60 mm diameter 5 mm nominal wall thickness mild steel tubing with UCS205 press fit, internally mounted, greased packed, sealed for life, precision bearings that mount to a non rotating 25 mm bright steel shaft.

### Take-up

Is screw type with the take-up screw supplied with a cross chain connection to allow adjustment from either side.

### Belt Speed Roller (where fitted)

60 mm diameter 5 mm nominal wall thickness mild steel tubing with 10 mm thick end plates and welded 25 mm bright steel shaft. The roller is mounted to the conveyor frame utilising UC 205 precision bearings and 4 bolt housing.

### Supports

Floor mounted supports spaced at no more than 1200 mm centres with adjustable feet for accurate levelling.

### Belting

2505 × 1000 mm LG endless PVC fire rated belt (typical for 1200 mm long conveyor).

# General Dimensions

