



Lineshaft Package Conveyor

FEATURES

- Precision needle roller dynamic universal joints are incorporated on curves and spurs
- Provision for additional snap-in infill rollers on straights and spurs
- Left and right handed drive shaft systems
- The design utilises many of the features of our package conveyor range

BENEFITS

- Quiet vibration free handling
- Close roller pitching for flexible based or small pack handling
- Allows for product mix on installation
- Less power to perform efficiently



Lineshaft conveyors are the optimum solution for mid range loads requiring only the smallest number of moving parts thereby reducing cost and complexity. This makes it a very quiet running system needing little power. One drive unit is suitable for up to 80 meters of conveyor in some circumstances and can power both straights and bends.

Lineshaft conveyor is based on the principle of being able to drive rollers individually from a common drive shaft. The motion power is transmitted via a nylon spool running freely on the shaft. An endless belt of a circular section, manufactured from an elastomeric material, completes the drive from the spool to the roller above.

Available in the following modules: Straights, Curves, Corner turns, Switches, Spurs, Personnel gates, Wallaby diverters, Dual shaft drive unit, Crossdrive kits, Drive units, Zero line pressure straights, Transfers, Blade stops and speed up rollers, Roller stops and speed up spools.





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SPECIFICATIONS

Speeds available: 0.15 m/sec (29 ft/min), 0.23 m/sec (46 ft/min), 0.3 m/sec (59 ft/min), 0.4 m/sec (79 ft/min) and 0.5 m/sec (98 ft/min).

Widths available: 300 mm (1 ft), 400 mm (1.4 ft), 450 mm (1.6 ft), 500 mm (1.8 ft), 600 mm (2 ft), and 800 mm (2.8 ft).

Pitch available: 83 mm (3.32 in), 125 mm (5 in) and 167 mm (6.68 in).

Curve angles: 30°, 45°, 60° and 90°

Corner turns: 90° and 180° degrees

Transfer speeds: 0.21 m/sec (40 ft/min), 0.31 m/sec (61 ft/min), 0.35 m/sec (69 ft/min), 0.48 m/sec (94 ft/min), and 0.63 m/sec (124 ft/min).

Electrical supply: 415v, 3 phase AC at 50Hz

Side channels: 2.5 mm (0.1 in) thick

Rollers: Parallel double grooved anti static 50 mm (2 in) diameter, 1.5 mm (0.06 in) thick wall, 70 kg (154 lbs) maximum load capacity per roller

Drive shaft: Precision ground mild steel, 25 mm (1 in) diameter running in sealed lubricated self-aligning precision bearings

Spools: Light weight low friction moulded Acetal with a 25mm (1 in) nominal diameter bore

Spacers: Low friction molybdenum disulphide impregnated nylon

Drive belts: Elastomeric urethane nominally 4.75 mm (0.187 in) diameter moulded to an endless length

Universal joint: Flexible precision universal joints, fitted with needle roller bearings

Noise level: Typically 71dBa - unloaded



Lineshaft Driving Principle



Oldham Coupling

Coupling Misalignment

All measurements are approximate.

