

ACS ADVANTAGE: TRANSFER POSSIBILITIES

PIVOT CAR WITH POWERED LIVE ROLLER BED



DESCRIPTION

- *Rectangular Pivot Cars pivot around a floor-mounted pivot pin and provide automatic retrieval and discharge to / from conveyor lines at various angles.*
- *Small diameter head and tail rollers combined with Stationary Load Assist Islands used where the radius end of the Car aligns with the conveyor lines allow for efficient operation and transfer of small loads.*
- *ACS Pivot Cars can be configured with different sizes or types of conveyor beds, including Powered Live Roller, Chain-driven Roller, Chain Transfer, or modular Stedi-Stak beds.*
- *Pivot Cars can be operated in automatic or manual mode and are a major link in the mechanized portion of an ACS material handling system.*

FEATURES

- *1 HP - 3 HP gear motor car drive (Travel / Rotation). 1.0 and 1.5 HP variable-speed reversible conveyor bed drives available.*
- *Field adjustable drive and idle wheels.*
- *Powered Live Roller conveyor bed utilizes 2- 1/2" (6.35cm) OD galvanized lift-out rollers containing "Lube-for-Life" bearings.*
- *Over-travel sensors provide for accurate car positioning and safe operation.*
- *Warning light and buzzer signal impending travel.*
- *Structural channel side frames with structural steel head mechanisms assure long service life.*
- *Entire assembly made with precision CNC and laser cut components.*

PIVOT CAR with POWERED LIVE ROLLER BED



SPECIFICATIONS

Between Frame Bed Widths: 60" (1.5M), 72" (1.8M), 84" (2.1M), 96" (2.4M), 108" (2.75M).

Standard Lengths: 10'-0" (3.0M), 15'-0" (4.6M) Typical. For other lengths, call factory.

Top of Roller Elevation: 12" (30.48cm) Top of Roller Standard. For other elevations, call factory.

Conveyor Speeds: 1 HP 40 FPM (12.19 MPM) or 1.5HP 60 FPM (18.29 MPM) Typical

CAR Travel Speed: 0 - 60 FPM (0 – 18.29 MPM)

Load Ratings:

Load Length & Width: Dependent upon Between Frame Width and Pivot Car Length

Structural Load: 1,240 lb. (562kg) * Structural Strength per roller on 3" (7.62cm) Centers.

Conveyance Load: Capacity per drive length: 1HP @ 40FPM (12MPM) or 1.5HP @ 60FPM (18MPM) is 3,500 Lbs. (1587.6 kg) to 5,000 Lbs. (2268 kg) depending on overall Pivot Car size.

Drive Components:

Pivot Car Drive Motor: Typically, 1 HP – 3 HP Brake Motor (depending on Car size), 230V/460V/3PH/60HZ mounted to an adjustable slide plate with chain drive, (Other HP and voltages available as required).

Conveyor Drive Motor: 1HP or 1.5HP (Depending on conveyor speed) 'C' Face mounted motor. 230V/460V/3PH/60Hz Single right-angle worm-type reducer transmitting power directly to the drive belt. (Other HP and voltages available as required).

Product Construction:

Conveyor Bed Side Frames: 5" (12. cm) Structural Channel Steel Side Frames

Frame: Precision CNC and laser cut steel components, all welded steel construction

Load Carrying Rollers: 2- 1/2" (6.35cm) OD Galvanized Steel with 11/16" (18mm) Hex Axle, "Lube-for-Life" Bearings

Tension Rollers: 1.9" (4.83cm) OD Galvanized Steel with 7/16" (11mm) Spring-loaded Hex Axle, "Lube-for-Life" Bearings

Control Options:

24 VDC Standard. 110 VAC Available.

Manual: Pushbutton operator-actuated

Automatic: Positioning controls with sensors and control software utilizing programmable logic controllers to facilitate fully automatic operation.

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