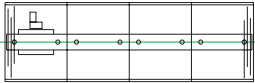
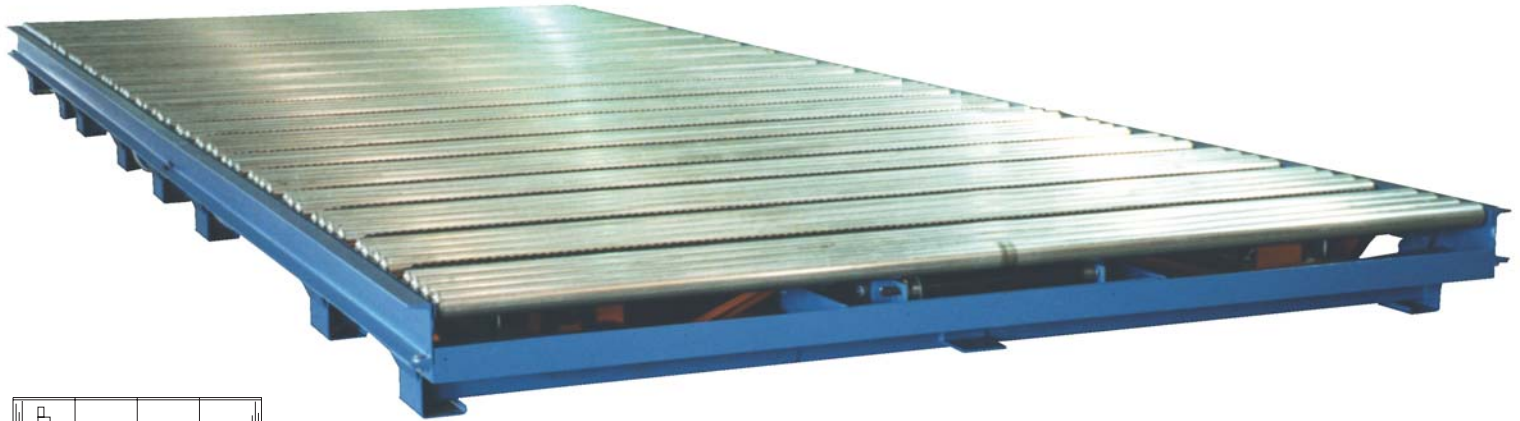


Accumulating Roller Conveyor (CRA) Nonaccumulating Roller Conveyor (CRN)

CONVEYOR



PRODUCT DESCRIPTION

Accumulating and Nonaccumulating roller conveyors are heavy duty belt driven live roller conveyors. Their 2-1/2" diameter rollers include precision grade bearings mounted on retained 5/8" hex shafts. The rollers are lift out style and are mounted high in the frame. The rollers are driven through contact with an endless flat PVC covered belt. The belt runs the entire length of the conveyor and is pulled through the conveyor assembly by a shaft mounted gearmotor via a lagged drive pulley.

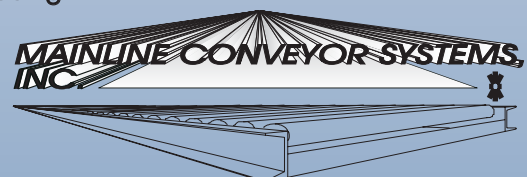
In nonaccumulating conveyor the conveyor belt is held in contact with the underside of the load carrying rollers by a series of fixed pressure rollers mounted beneath the belt. In accumulating conveyor the flat belt is held in contact by movable sets of pressure rollers when compressed air is applied to frame mounted air actuators below. These movable sets of rollers may also be selectively dropped away, breaking contact between the belt and the load carrying rollers, thereby allowing loads to idle above.

APPLICATION

These conveyors are designed for transporting and staging unit loads to and from various processes within today's automated factory. Nonaccumulating conveyors function primarily as transport conveyors but can also be used effectively as reversing "LIFO" staging conveyors. Accumulating conveyors may be used as surge conveyors between processes or conveyor junctions, providing full accumulation and separation or zone control. These conveyors can also be used as "FIFO" staging conveyors in a number of through applications.

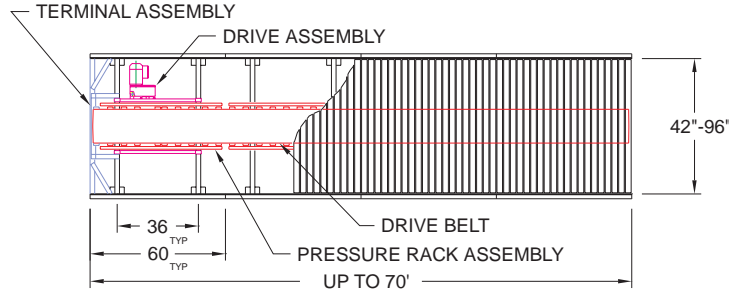
FEATURES

- Low profile, 12" TOR minimum.
- Friction drive belt allows overload slippage and acts as clutch to protect gearmotor.
- Full length, fully accumulating primary drive to all rollers. No need for secondary drive assist means at ends of conveyor and no dead rollers.
- Gear motor is torque arm mounted to drive pulley, allowing removal without disturbing the pulley.
- Non accumulating drive/take-up package eliminates need to raise and lower heavy gearmotor and drive and take-up pulleys.
- All conveyor sections are convertible to or from accumulating and nonaccumulating function.
- Drive/take-up package is midsection mounted and may be moved from one section to another as the system layout changes.
- Crowned drive, take-up and terminal pulleys improve belt tracking and adjustment.
- Preassembled modules simplify field installation.
- Unitized frames include 5" structural channel sideframes, structural tubing cross members and integral floor supports for 12" TOR.
- Lift out style rollers are supported in laser cut support slots for high position accuracy for all rollers.
- All rollers use precision grade bearings and galvanized steel tubing.



ACCUMULATING ROLLER CONVEYOR (CRA) NONACCUMULATING ROLLER CONVEYOR (CRN)

Dimensions (in.)



GENERAL SPECIFICATIONS

Conveyor Width - Between frame	42"	48"	54"	60"	72"	84"	96"
- Overall	46-1/4"	52-1/4"	58-1/4"	64-1/4"	76-1/4"	88-1/4"	100-1/4"
Module Length	1'-0" thru 7'-0" In 3-inch increments (special lengths as required)						
Minimum Height	12" T.O.R.						
Drive Capacity	1,000 lbs. per foot of length; up to 12,000lbs per area of accum. (based on load type)						

POWER REQUIREMENTS

Air Supply (accumulating)	1.5CFM @ 60PSIG per 1000' of conveyor (to actuate at 60 loads per hour)
Electrical Supply; Amperage	230-460V/3ph/60hz; 1.85 Amps(460V) @ Full load per drive
Drive	1HP @ 40 or 60 FPM (other speeds available upon request)

CONSTRUCTION

Frame	Integral weldment includes: Sideframe: C5x6.7# structural steel channel (formed angle optional) Shaft supports: Formed Flat, 3/16" thick x 2-7/8" width w/Laser cut support slots Tie braces (cross supports): 4 x 2 x 1/8" rectangular tubing at max 4'-0" centers. Legs: Formed Flat, 3/16" thick x 6" width, 2 per tie brace
Pressure Roller Supports	Galvanized formed channel 3-3/4" web x 1-1/4" flanges
Air Actuators (accumulating)	Commercially available, flexible air bladder type, mounted on each tie brace
Rollers (load carrying)	Standard lift-out style roller mounted in frame on 3" centers includes: Tube: 2.5" diameter x 11 gauge steel (Galvanized also available) Shaft: 5/8" solid CR hex, retained in roller Bearings: Precision grade 6205 series sealed bearing
Pulleys	Drive: 6-1/2" diameter, crowned, vulcanized lagging; precision bearing mounted Take-up: 4" diameter, crowned, with 6" adjustment; precision bearing mounted Terminal: 2-1/2" diameter, crowned, with 1" adjustment; precision bearing mounted
Beltting	5/32" thick x 15" wide Nylon cord weave with PVC face both sides (10" wide also used)

CONTROL OPTIONS *

Manual Operation	Pushbutton operator-actuated
Automatic Operation	Load detection sensors combine with control logic to actuate the conveyor to move and position loads.
PC controls	Air actuators are controlled by PC logic to engage drive or brakes in individual areas or zones to combine, separate, or move loads along the conveyor.
Area/Zone Controls	

* Contact Mainline Conveyor Systems, Inc. for additional control or capacity information.



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