

Load Lift Device (LDL)



Special control valves are used to match positions of paired lifts and maintain a level conveyor surface at any height.

PRODUCT DESCRIPTION

The Load Lift Device is a standard belt driven live roller conveyor (accumulating or nonaccumulating) mounted on a pair of hydraulic scissor lifts. The mounted conveyor includes standard components such as the belt, drive/take-up package, and liftout load carrying rollers. Low profile pressure rollers and pressure roller mounting angles are used with the standard over tiebrace belt path to achieve a 12" TOR profile without requiring a pit for the lifts. Standard structural features include 4x2 rectangular tube tiebraces and terminal roller assemblies. 8" structural channel replaces the standard 5" sideframes to allow the conveyor to span lengths up to 20 feet. An edge sensor mounted to the bottom of the side frame channel detects obstructions as the conveyor moves towards the floor.

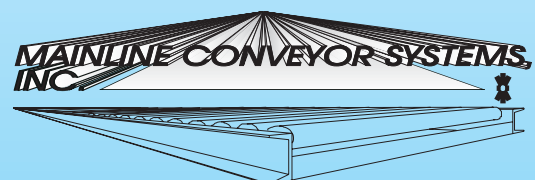
Typically, a transfer device is incorporated in the conveyor to provide side discharge to auxiliary operations. This transfer device can be of the standard roller chain design or a flat top chain design with reduced load marking. Longer conveyors may include up to three independent zones for load accumulation and lateral transfer.

APPLICATION

The typical lift device is used as a discharge conveyor for die cut applications that require the ability to discharge unit loads directly to a mainline, or stacks of bundles to a bundling operation that may include a bundle breaker device. This device eliminates the need to move mobile conveyor sections in and out of the discharge area to accommodate the dual modes of operation.

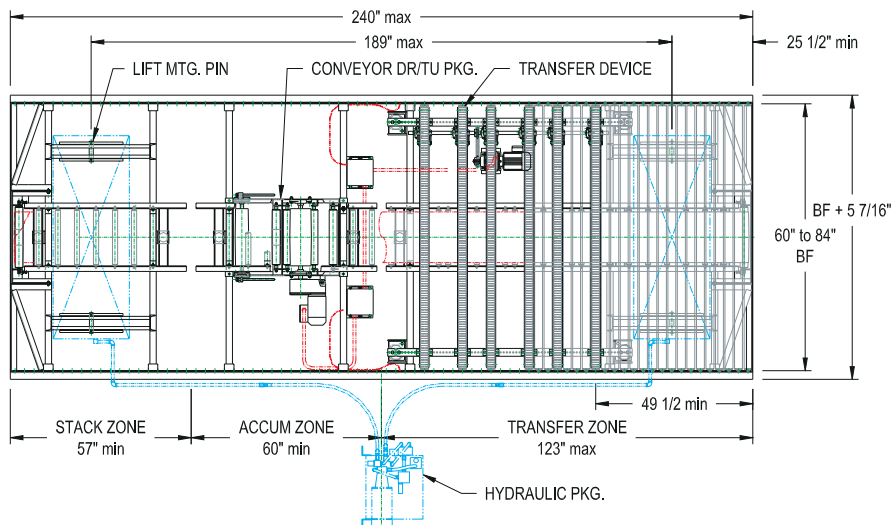
FEATURES

- Saves labor by eliminating the need to move different equipment in and out of position for unit load and bundle operations.
- Heavy duty construction matches typical unit load floor conveyor.
- 12" TOR lowered height is achieved without the need for floor pits for the lift devices.
- Edge sensor provided along bottom edge of sideframe to detect obstructions beneath conveyor sideframe.
- Optional transfer device mounted in the conveyor.
- Flat top chain transfer device available.
- Multiple zones of accumulation available using standard accumulation methods.
- Special hydraulic valving maintains conveyor level at all heights.
- Pivotaly mounted conveyor reduces unwanted lateral loading on scissor lifts.



LOAD LIFT DEVICE (LDL)

Dimensions



GENERAL SPECIFICATIONS

Nominal Conveyor Width	60" through 84" BF
Max Conveyor Length	20'-0" (other lengths upon request)
Height	12" TOR
Load Capacity	3,000 lbs. @ 45fpm
Conveyor / Transfer Speed	45, 60 FPM (other speeds upon request)

POWER REQUIREMENTS

Electrical Supply	230-460V/3ph/60hz
HP/ Amperage: Conveyor	1 HP / 1.85 amps @ 460v
Transfer	3/4 HP / 1.45 amps @ 460v
Lift	5 HP / 6.8 amps @ 460v

CONSTRUCTION

Typical Conveyor & Transfer Features Lift Device	Reference standard conveyor (CRA) and Transfer (TDC) data sheets Lift Tables (2): 4000 lbs. gross capacity each table 48" available vertical travel 24" x 64" base and platform Velocity fuses on cylinders Pump Package: 5hp, 460v/60hz/3Ph pump motor 11Gal. capacity tank 110v solenoid and controls Special synchronizing valve to control level conveyor motion
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CONTROL OPTIONS *

Manual Operation	Pushbutton operator-actuated
Automatic Operation	Combines with load detecting sensors and control logic to position and advance loads.
PC Controls	Pushbutton controls are included with automatic controls as application dictates.

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



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