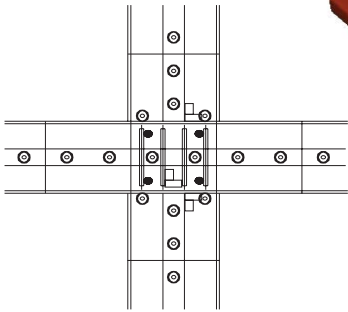
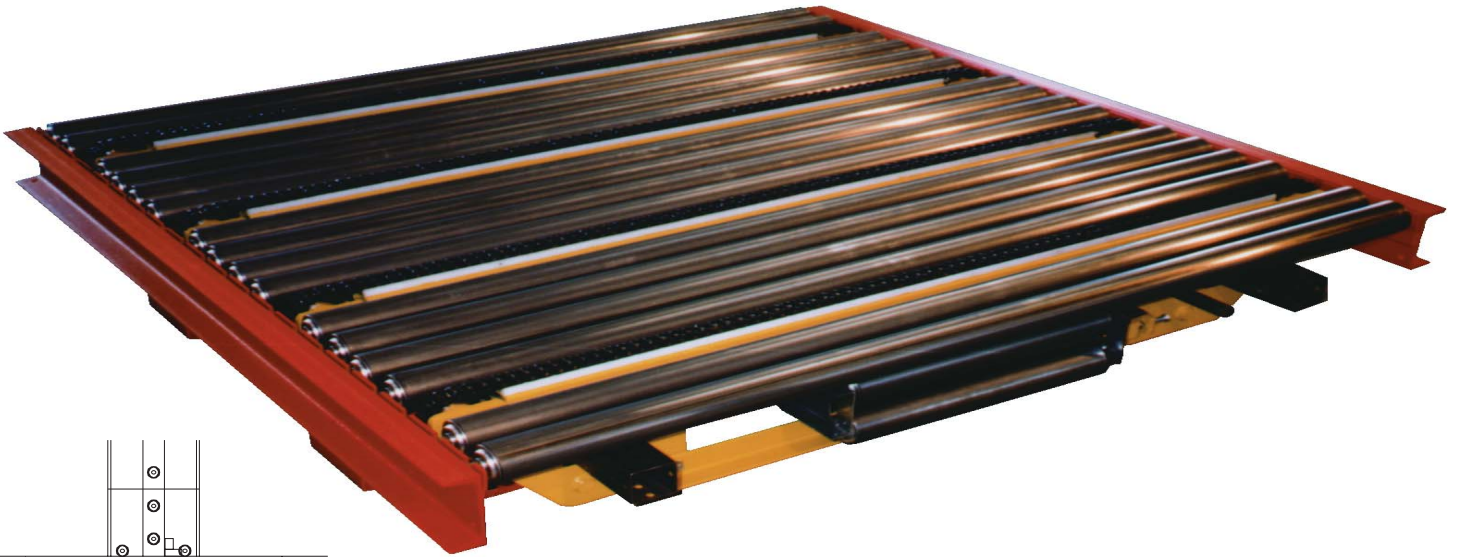


# Chain Transfer Device (TDC)

ENTRY/EXIT DEVICE



*TDCs provide for the bidirectional transfer of loads between adjacent perpendicular conveyors.*

## PRODUCT DESCRIPTION

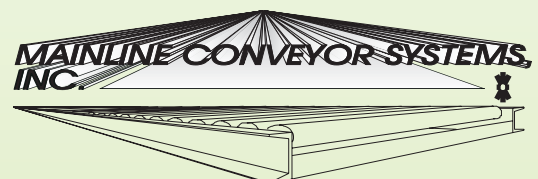
The Chain Transfer Device (TDC) is a bidirectional transfer device that facilitates load transfers to or from adjacent perpendicular conveyors on either side of the device. Loads are carried during transfer on multiple strands of #60 roller chain powered by an electric gearmotor. Each carrier chain occupies the space of one roller and is guided by UHMW-PE chain guides mounted on a rigid chain bar weldment. The device and load are raised and supported during transfer by multiple pneumatic actuators mounted on bases anchored to the floor.

## APPLICATION

TDCs transfer loads between adjacent perpendicular conveyors. This bidirectional device may be used to provide either a two, three or four way intersection. Multiple adjacent TDCs may be electrically slaved to handle large loads. TDCs may be installed in existing Mainline Conveyor Systems conveyors without the purchase of a new conveyor midsection.

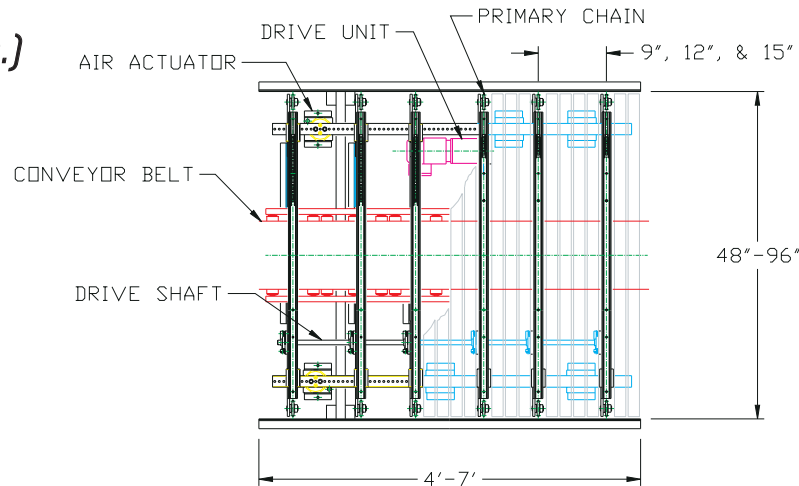
## FEATURES

- For use with new or existing Mainline Conveyor System conveyors.
- Adaptable for use in other manufacture's existing conveyor.
- Adjustable chain spacing allows on site reconfiguration to match existing conveyor requirements.
- Potential for tandem operation.
- Self contained power train fits completely within the conveyor frame.
- Improved chain bar profile allows
  - 1) more clearance with adjacent conveyor rollers, and
  - 2) more clearance between top of chains and bottom of load in lowered position.



# CHAIN TRANSFER DEVICE (TDC)

## Dimensions (Ins.)



## GENERAL SPECIFICATIONS

Nominal Conveyor Width	60", 72", 84", 96" (bf)
Nominal Device Length	4', 5', 6', 7'
Minimum Height	12" T.O.R.
Load Capacity	2,500 lbs., per device @ 40FPM & 80 PSIG air supply
Carrier Chains	#60 (3/4" pitch) roller chain
Chain Spacing	Chains spaced at 9", 12", or 15" nominal center to center

## POWER REQUIREMENTS

Air Supply	6 CFM @ 90 PSIG, to raise in 1 sec.
Electrical Supply; Amperage	230-460V/3ph/60hz; 1.45 Amps(460V) @ Full load
Drive	3/4 HP @ 40 or 60 FPM

## CONSTRUCTION

Frame	Structural chain support bars welded and bolted in truss type construction; individually mounted to lateral frame members.
Drive Train	Primary drive chain drives drive shaft and is direct driven by gearmotor. Additional carrier chains driven from drive shaft.
Lift & Support	4 or 6 individual flexible air actuator.

## CONTROL OPTIONS \*

Manual Operation	Pushbutton operator-actuated
Automatic Operation	Device position sensors combine with load detecting sensors and control logic to position and transfer loads. Pushbutton controls are included, and reversing controls are available.
PC Controls	
Safety Controls	Collision avoidance controls operate automatically to control the intersection.
Priority Entry Controls	When selected by operator, loads are held upstream of intersection to allow load entry.

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

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