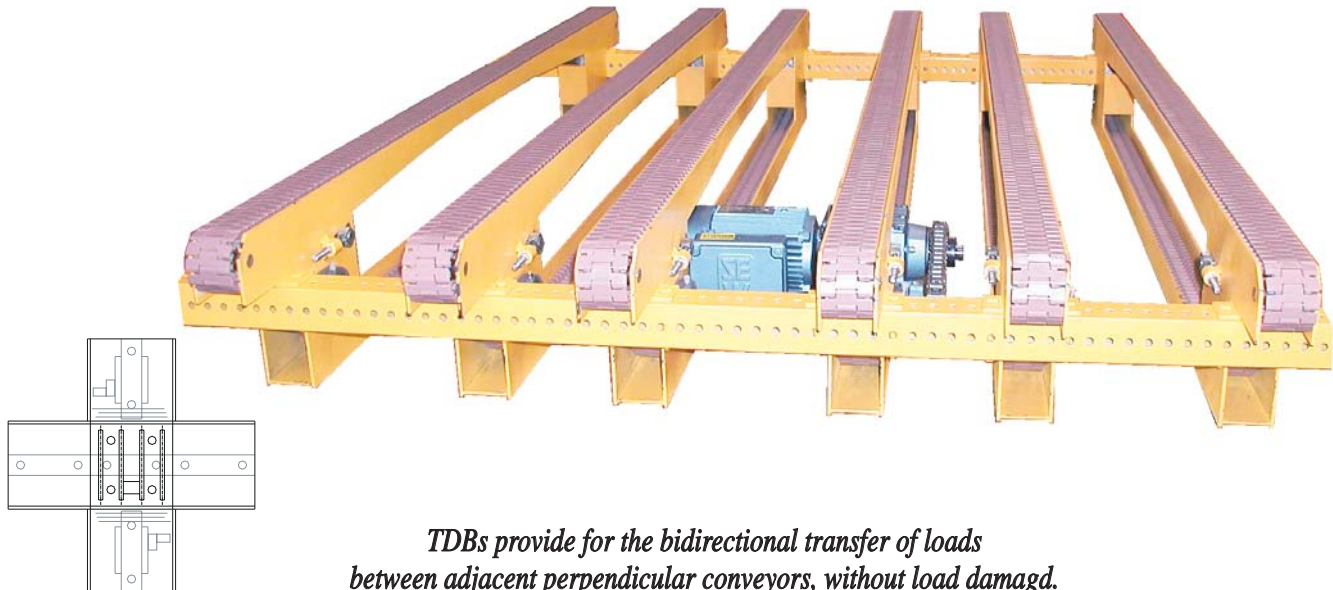


"Belt" Transfer Device (TDB)

ENTRY/EXIT DEVICE



TDBs provide for the bidirectional transfer of loads between adjacent perpendicular conveyors, without load damage.

PRODUCT DESCRIPTION

The Belt Transfer Device (TDB) 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 flat top 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.

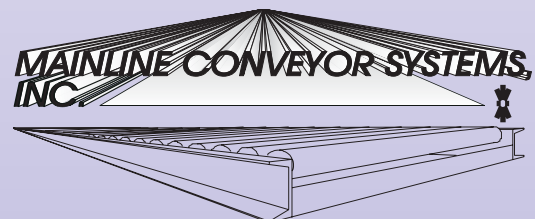
The chain used for this device is a plastic chain with a pitch of 3/4". This short pitch allows small radius turns that accommodate short center distances between the end of the transfer surface and adjacent conveyors. The general idea of multiple chain bars with adjustable centers is similar to our standard Chain Transfer Device. However, a box shaped chain bar gives the device improved rigidity and protection to the plastic chain.

APPLICATION

TDBs transfer loads between adjacent perpendicular conveyors. This bidirectional device may be used to provide either a two, three or four way intersection. Multiple adjacent TDBs may be electrically slaved to handle large loads. TDBs may be installed in existing Mainline Conveyor Systems conveyors without the purchase of a new conveyor midsection. The flat top chain provides a smooth conveying surface for applications where it is important to avoid damage to the bottom of the load.

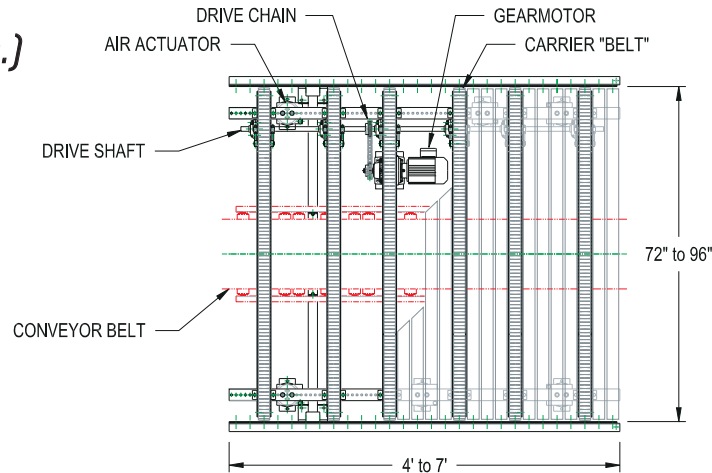
FEATURES

- For use with new or existing Mainline Conveyor System conveyors.
- Adaptable for use in other manufacturer'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.
- Flat top chain eliminates damage to bottom of loads.
- 3/4" pitch chain permits small radius turns and close center distances with adjacent conveyors.
- Box chain bar profile allows improved rigidity of chain bar for heavier loads.



"BELT" TRANSFER DEVICE (TDB)

Dimensions (Ins.)



GENERAL SPECIFICATIONS

Nominal Conveyor Width	72", 84", 96" (bf)
Nominal Device Length	4', 5', 6', 7'
Minimum Height	12" T.O.R.
Load Capacity	2,500 lbs., per device @ 45FPM & 80 PSIG air supply
Carrier Chains	2-1/2" W x 3/4" pitch, flat top plastic (acetal) 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; 1.85 Amps(460V) @ Full load
Drive	1 HP @ 45 FPM

CONSTRUCTION

Frame	Structural chain support bars welded and bolted in truss type construction; individually mounted to lateral frame members.
Drive Train	The drive shaft is driven by a gearmotor via a separate drive chain. All carrier chains driven from drive shaft.
Lift & Support	4 or 6 individual flexible air actuators.

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.



**10970 North Holland Drive
Mooresville, IN 46158
(317) 831-2795
FAX (317) 831-2719**