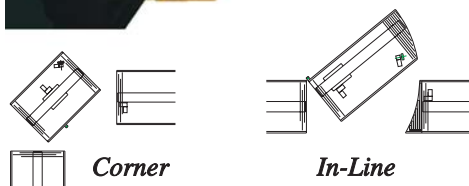
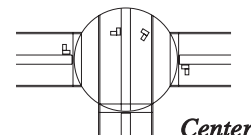


# Pivoting Transfer Vehicle (TVP)

PIVOT CAR



*TVP devices facilitate 90 degree load transfers without altering the orientation of the loads with respect to the rollers.*



## PRODUCT DESCRIPTION

The Pivoting Transfer Vehicle (TVP) is a self-contained conveyor on wheels, that is fixed at a single point about which it pivots. The pivot is driven by a gearmotor directly mounted to a drive wheel that engages the floor and propels the device around the pivot point. Additional wheels support the vehicle as necessary. An integral standard Mainline belt driven roller conveyor supports and moves the load on and off of the vehicle.

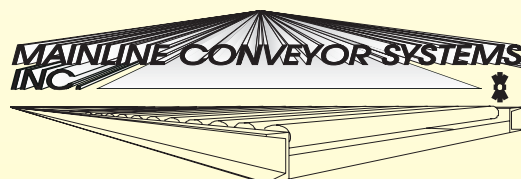
Three typical configurations are available for various applications. The standard arrangement is as a length of conveyor that pivots at some point along its side (usually at or near a corner of the conveyor). Another configuration includes a rounded (transition) element that mates with a similar piece on the adjacent fixed conveyor. Finally, a completely circular device is available with its pivot point in the center of the unit. Each of these units are available in various conveyor widths and lengths to suit any application.

## APPLICATION

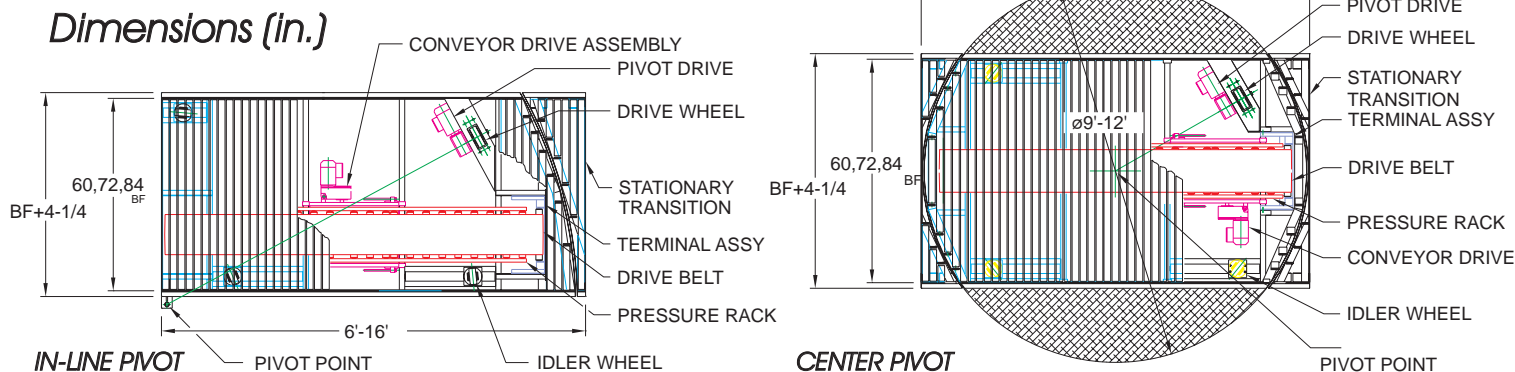
The TVP is a multipurpose transfer device that can be used to transfer loads between right angle and inline conveyors without changing the orientation of the load to the conveyor. In the traditional configuration, loads are transferred between conveyors at right angles to each other. In another configuration, the device may be used as a bridge between inline conveyors that require an infrequent opening for fork truck or other floor traffic. In yet another configuration (center pivot), the device is used as a 3 or 4 way intersection.

## FEATURES

- Loads are transferred without changing orientation of the load to the conveyor.
- Self-contained preassembled construction simplifies installation
- Units are compatible with any existing conveyor system as well as Mainline's equipment.
- Reversible conveyor allows load movement in either direction for improved functionality in multidirectional intersections.
- Low profile, 12" TOR with 2-1/2" rollers on 3" centers, matches standard floor conveyor.
- Conveyor drive system is identical to Mainline's floor conveyor systems and provides primary drive to all full length rollers.
- Audible and visible signals alert nearby individuals before and during vehicle motion.
- Perimeter sensors detect obstructions during travel.
- Vehicle is powered by 1 hp drive motor with brake.
- Polyurethane wheels ride directly on floor and provide durability and traction, and are field adjustable.



# PIVOTING CONVEYOR (TVP)



## GENERAL SPECIFICATIONS

Nominal Conveyor Width	60", 72", 84" standard belt driven conveyor (multiple conveyor arrangement upon request)
Nominal Device Length	6' to 16' based on configuration (other lengths upon request)
Center Pivot Diameter	9' thru 12'
Minimum Height	12" T.O.R.
Load Capacity	4,000 lbs., per device @ 40FPM
Pivot Speed	40, 60FPM (other speeds upon request)
Conveyor Speed	40, 60FPM (other speeds upon request)

## POWER REQUIREMENTS

Electrical Supply; Amperage	230-460V/3ph/60hz; 1.85 Amps(460V) per drive
Pivot Drive Gearmotor	1HP @ 40 or 60 FPM (may vary with speed and load requirements)
Conveyor Drive Gearmotor	1HP @ 40 or 60 FPM

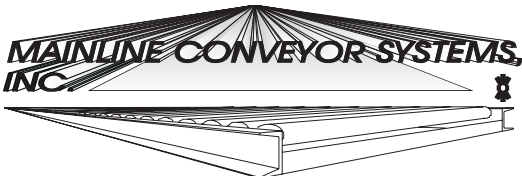
## CONSTRUCTION

Frame	Integral weldment includes: Sideframe: C5 structural with 5x2-1/2x1/8 rectangular tube Tie Braces (cross supports): 4x2x1/8 rectangular tube and structural angle
Pivot Support	1" dia pivot post mounted to floor, sintered bronze pivot bearing mounted to vehicle
Idler Wheel Supports	6" dia polyurethane casters, adjustably mounted to vehicle frame
Drive Wheel Support	9" dia polyurethane wheel rigidly mounted to vehicle frame
Integral Conveyor	Standard Mainline belt powered conveyor
Rollers	2-1/2" dia on 3" centers, transition rollers may be chain assist driven
Pivot Gearmotor Mounting	Shaft mounted to drive wheel

## 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 with automatic application.
PC Controls	

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



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