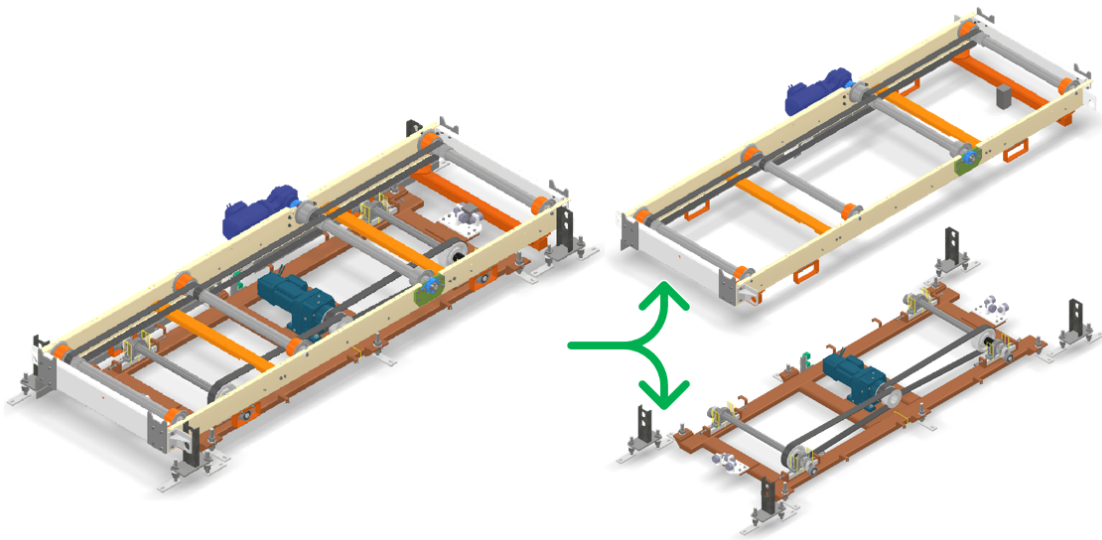


Lift Table NA Belt - Typical Components Overview

Lift Tables consist of an eccentric lift table with a Power Roller Bed mounted on it. The eccentric Lift Table is available with 2-stop or 3-stop stroke.

The frame consists of a box section and angle steel that is fixed to the floor by adjustable feet. It holds the pillow block bearings for the shafts, the roller brackets of the guide rollers, and the drive motor.



▲ Lift Table with 4-Roll PRB, shown without safety covers

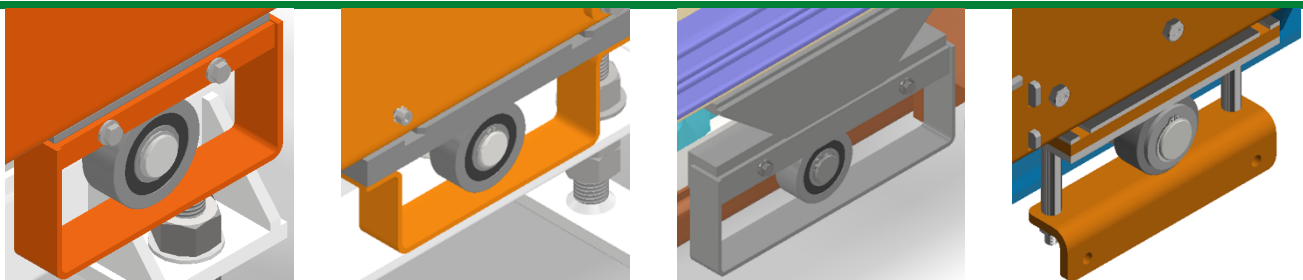
The eccentric shafts are supported by pillow block bearings and are equipped with toothed belt pulleys, eccentrics, and cam rollers. The cam rollers move within frames mounted to the attached Power Roll Bed.

The twofold distance between the cam roller and the center of the drive shaft is the height of the table.

The two shafts are driven by toothed belts or chains which are driven by the pulley of the motor. The drive pulley is fixed to the motor shaft by a clamping set.

A vertical support provides the vertical guidance of the Power Roll Bed to be lifted. Three guide rollers are mounted to a plate with an angle of 90° and 180° respectively and each are bolted to the frame of the Lift Table.

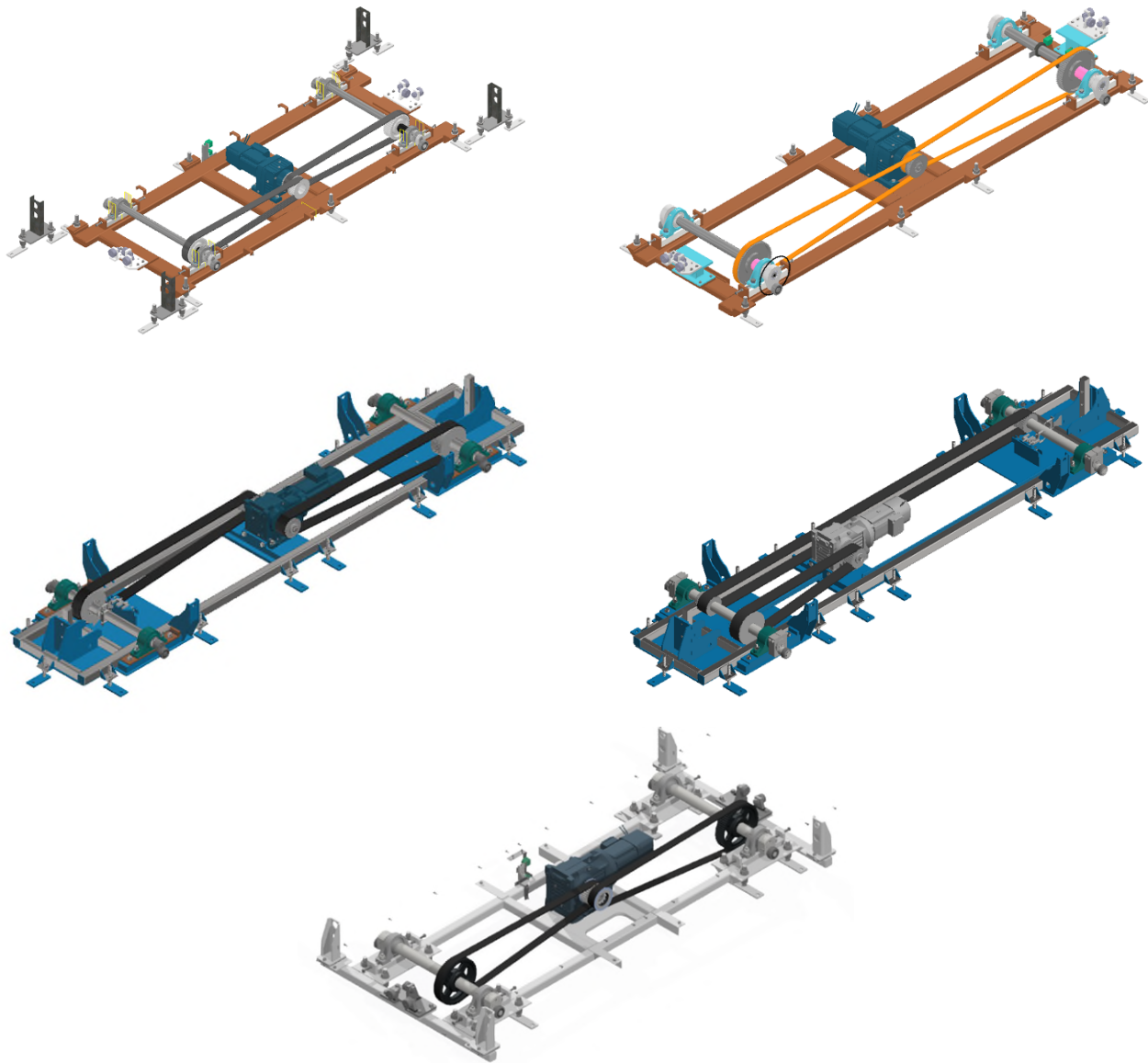
Typically, the 2-position eccentric Lift Table or Hold Table is mounted between the two chains of the Cross-Transfer Conveyor. The Lift Table descends to its lowest position to accept the transported goods, so that the Cross-Transfer Conveyor can place the skid above the Power Roller Bed on the Lift Table.



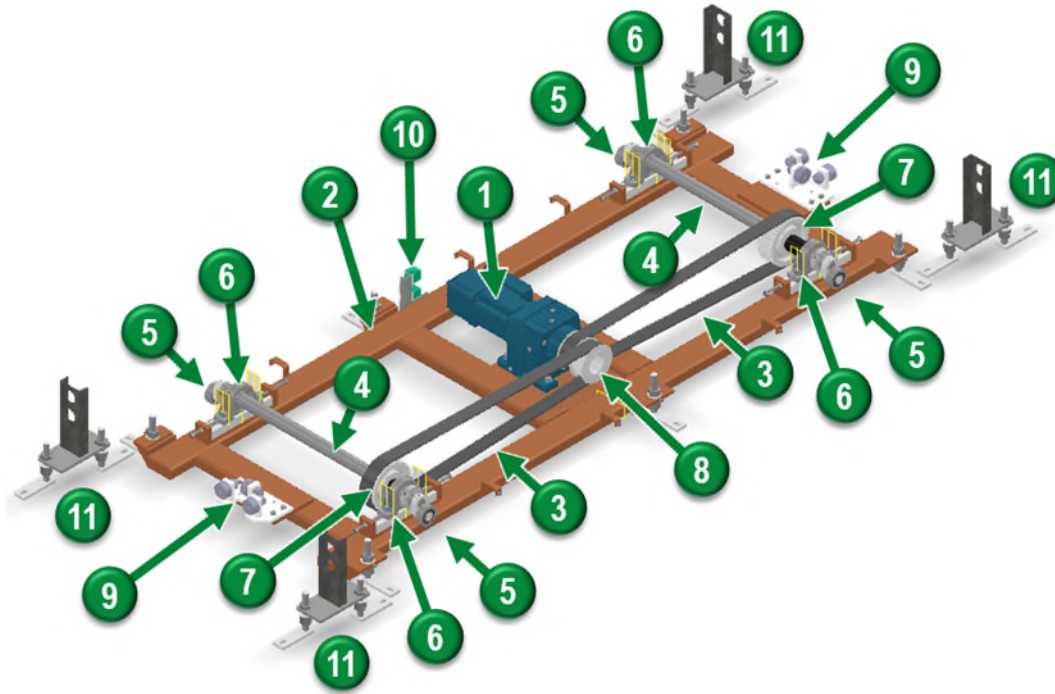
▲ Examples of different Cam Roller Frames

Lift Table – Eccentric Lift Base Variations

Your job site may use several different Lift Table designs depending on the work required. While the designs differ in size, power, and subcomponents, they all utilize the same basic toolset and structure. Below are some of the different lift tables you may see in service:



Lift Table – Eccentric Lift Base Typical Components



▲ Lift Table shown with PRB hidden

| | | |
|-----------------|------------------------|--------------------------|
| 1 Gearmotor | 2 Drive Pulley | 3 Lifting Belts |
| 4 Cam Shaft | 5 Cam Roller | 6 Pillow Block Bearing |
| 7 Belt Pully | 8 Frame | 9 Vertical Guide Rollers |
| 10 Sensor Mount | 11 Safety Pin Assembly | |

Keep in mind that the position and orientation of specific elements such as the belts and gearmotor can differ depending on the specific Lift Table.

Power Roll Bed Overview (Mounted on Lift Table)

Power Roll Beds are a major element of FATA Automation’s Skid Conveyor Systems. The products are modular in design using common components such as motors, belts, rollers, switches, cords, and trunk cables as a complete package.

The side frame of a Power Roll Bed is made of bended Z-profile that mounts the carrying rollers, and the front and rear of the Power Roll Beds are connected by ends called “dashboards.”

Power Roll Bed lengths range from 1 to 9 attached rollers. At least one drive roller assembly in each Power Roll Bed is made completely out of steel to discharge static voltage from the skid.

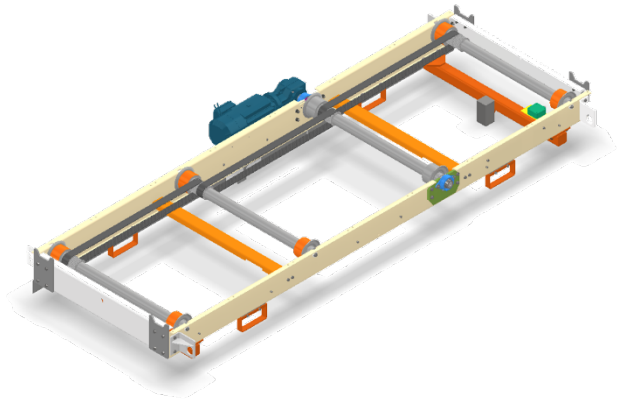
The drive frame unit can either be mounted between the side frames, typically near the center of the bed, or may be externally mounted depending on customer specifications or application.

The gearmotor is connected to adjacent drive rollers with its double tooth pulley fitted to the motor shaft and they in turn are connected to the driven rollers and timing belts to transport skids along the table.

The typical drive roller assembly consists of a flange disc at each side and a steel grooved center. The continuous solid shaft has internal bearings that are locked at each shaft end.

A variety of cover options are available to protect the belts and pulleys. The complete Power Roll Bed can be covered with full guard plates as an option.

Unistrut is typically mounted laterally on one side plate. Adjustable proximity switch brackets can be mounted on the Unistrut as well as any TEE and IDC brackets.

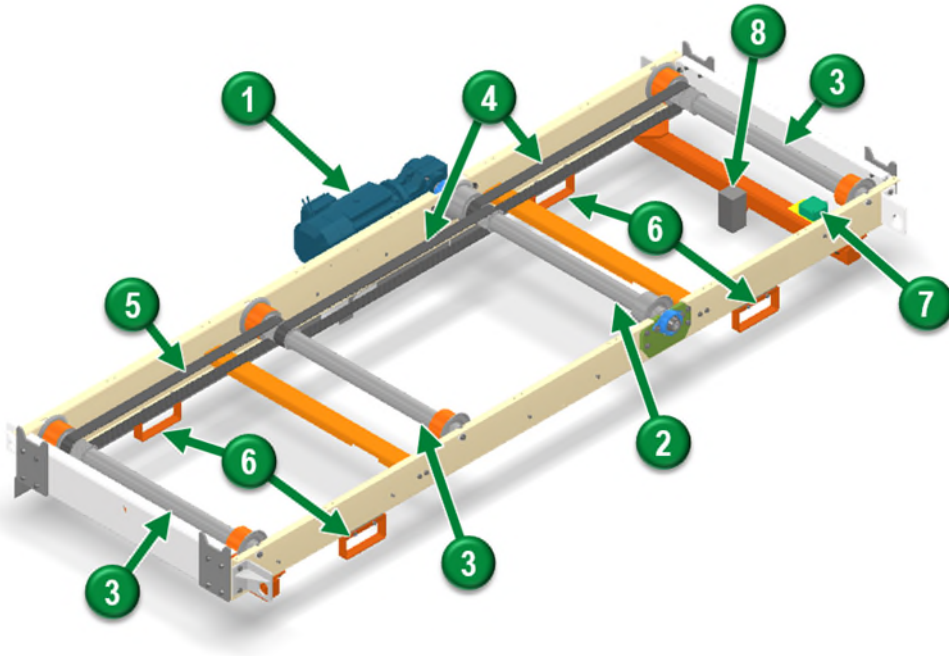


▲ Sample 4-Roll PRB shown without Lift Table



▲ Power Roll Bed with drive mounted externally.

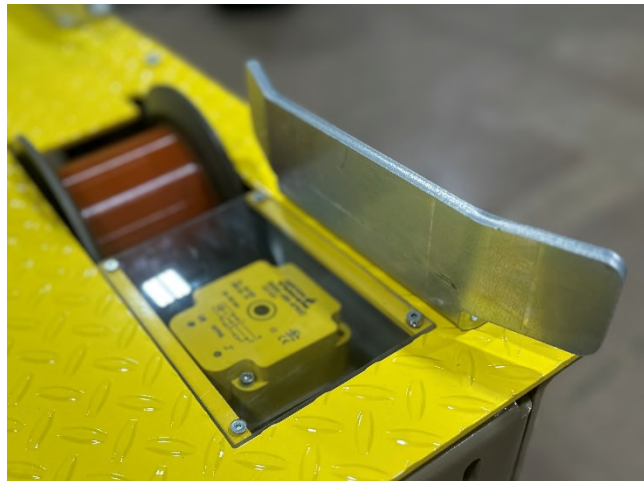
Power Roll Bed Typical Components (Mounted on Lift Table)



- | | | |
|---------------------------|-----------------------|---------------------------|
| 1 Gearmotor | 2 Drive Roller | 3 Driven Roller |
| 4 Drive Belt | 5 Driven Belt | 6 Cam Roller Frame |
| 7 Proximity Switch | | |

▲ Sample 4-Roll PRB shown with Lift Table hidden

Power Roll Bed Optional Equipment



▲ Optional equipment installed on select Power Roll Beds include Cam/Guide Rollers, Bar Code Readers, Proximity Switches, Anti-Static Assemblies, Guide Blocks and Guides.