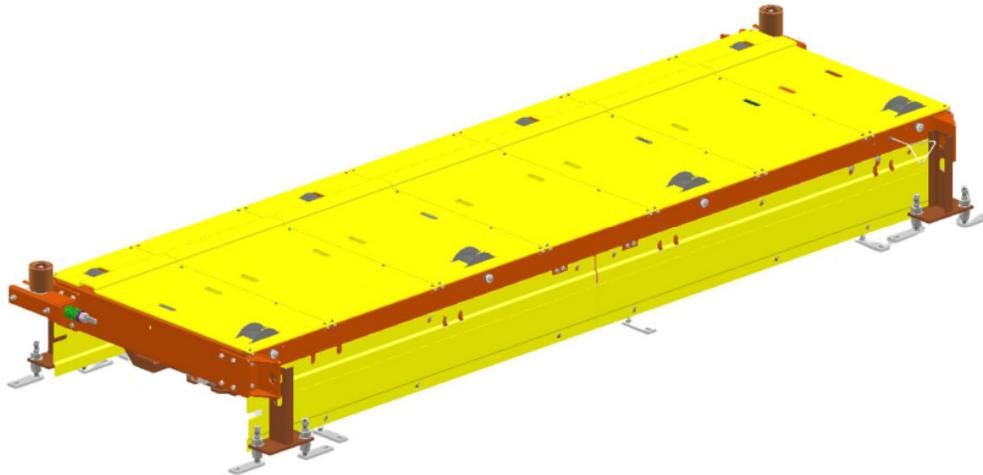


Lift Table Typical Components Overview

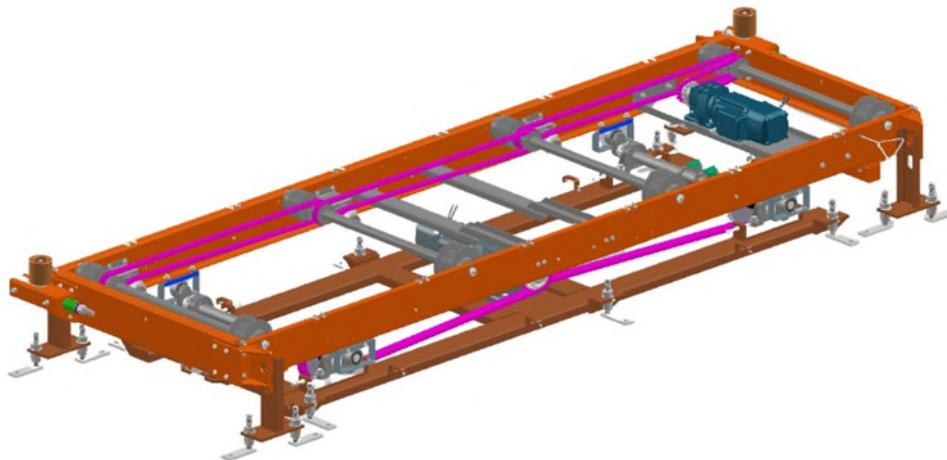
Lift tables consist of an eccentric lift table with a power roller bed mounted on it. The eccentric lift table is available with 2-stop or 3-stop stroke.

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.



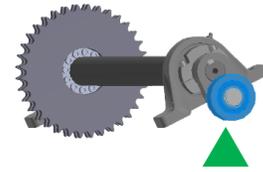
▲ Top View - Lift Table with safety covers on.

The eccentric shafts are supported by pillow block bearings and are equipped with chain pulleys, eccentrics, and cam rollers. The cam rollers move within rails mounted to the attached power roller bed.



▲ Internal View - Lift Table with safety covers off.

At the drive side cam rollers are eccentrically screwed with drive pulleys. The twofold distance between the cam roller and the center of the drive shaft is the height of the table.



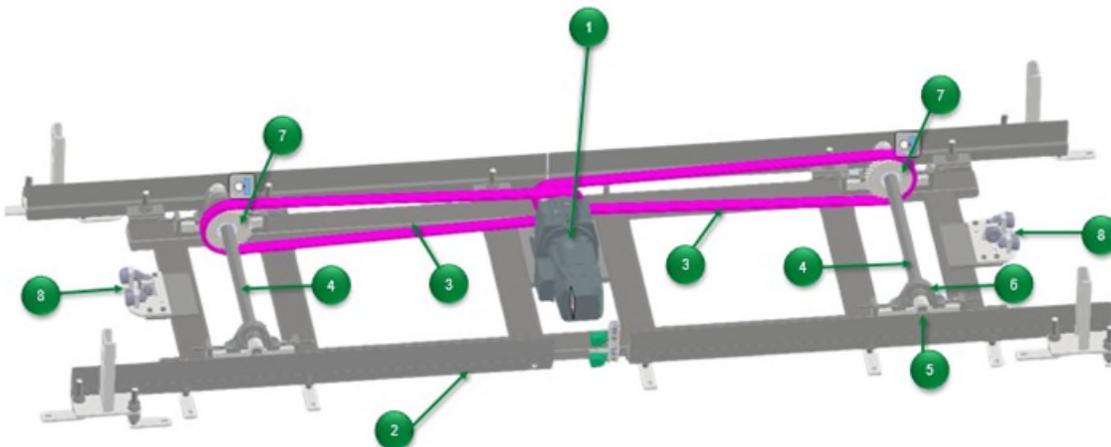
Cam Roller

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

The vertical support provides the vertical guidance of the roller 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 lifting 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.

Lift Table Typical Components (Internal View)



- | | | |
|-----------|------------------|-----------------------|
| Gearmotor | Frame | Chains |
| Cam Shaft | Cam Roller | Pillow Block Bearings |
| Sprocket | Proximity Sensor | |

Power Roll Bed Overview

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, chains, 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. These side frames are a height of 200 mm and in the front and rear of the Power Roll Beds are connecting ends called dashboards.

Underneath the frame are mounted support feet that are adjustable for a height range of 25mm. The typical height from top of floor to the bottom of the skid is 500mm.

Power Roll Bed lengths range from 1 roller (bed length 310mm) to 9 rollers (bed length 8862mm) available. 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 standard track width is 800mm from center to center of 50mm wide skid runners. The supporting width is 60mm and the distance from roller to roller is 1064mm.

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.

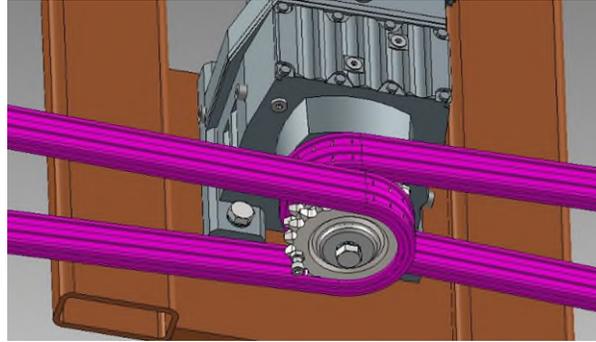
The gearmotor is connected to adjacent drive rollers with its double tooth pulley fitted to the motor shaft and they in turn are connected to the driven rollers and timing chains to transport skids along the table.

The typical drive roller assembly consists of a flange disc at each side and a steel, grooved center (125mm diameter). The continuous solid shaft has internal bearings that are locked at each shaft end.

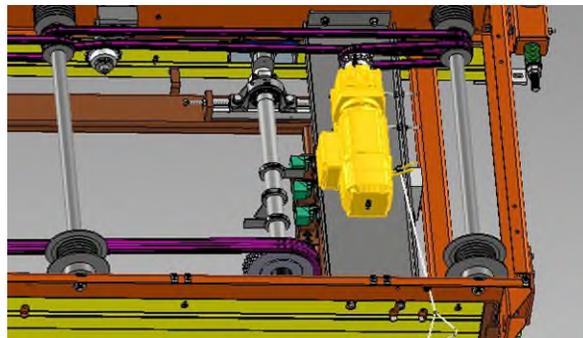
A variety of cover options are available to protect the chains and pulleys. The complete Power Roll Bed can be covered with full guard plates as an option.

The function of each individual Power Roll Bed is ensured by the integrated drive controller (IDC).

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



▲ Power Roll Bed drive frame showing a gearmotor, double pulley and drive chains.

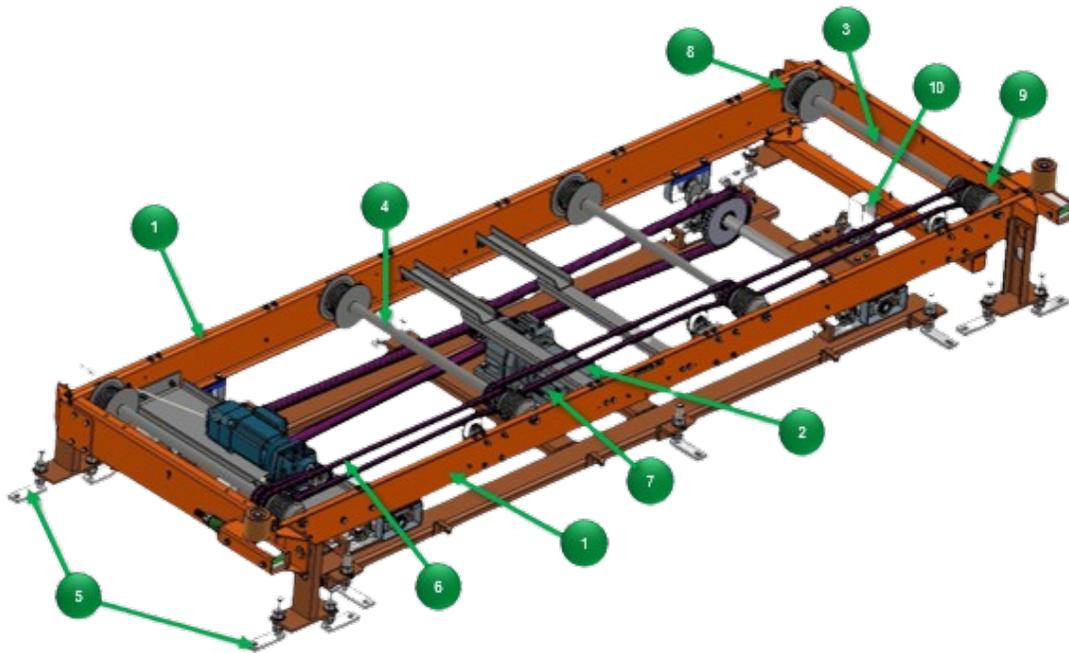


▲ Power Roll Bed with drive mounted internally.



▲ Grooved Driven Roller Assembly.

4-Roll Power Roll Bed Typical Components



- | | | |
|----------------------------|-------------------------------|------------------------|
| 1 Side Frame | 2 Gearmotor | 3 Driven Roller |
| 4 Drive Roller | 5 Adjustable Feet | 6 Driven Chain |
| 7 Drive Chain | 8 Grooved Steel Roller | 9 Steel Roller |
| 10 Proximity Switch | | |