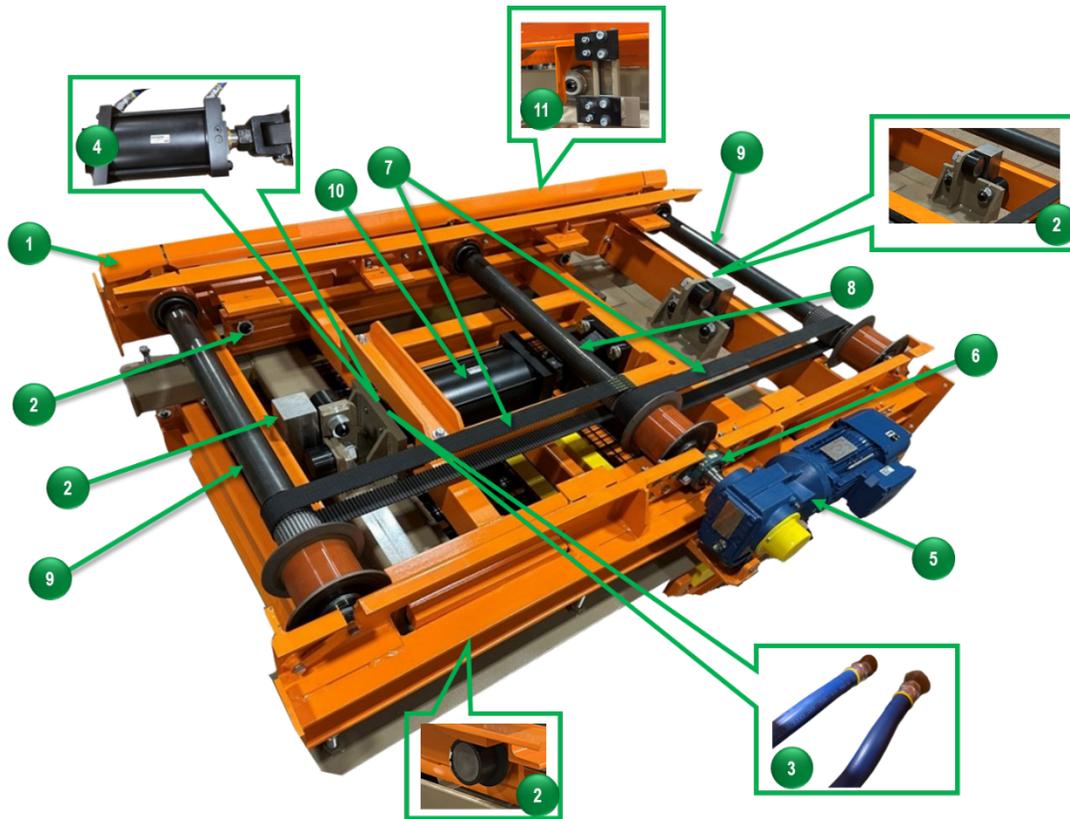


Pneumatic Lift Table – Components



- | | | | | | |
|---|--------------------|---|----------------------|----|--|
| 1 | Frame | 5 | Gearmotor | 9 | Driven Rollers |
| 2 | Cam Rollers | 6 | Pillow Block Bearing | 10 | Manifold |
| 3 | Air Hoses | 7 | Drive Belts | 11 | Bracket for Field Installed Proximity Switch |
| 4 | Pneumatic Cylinder | 8 | Drive Roller | | |

Pneumatic Lift Table Overview

A Pneumatic Lift Table is a mechanical platform that utilizes compressed air instead of hydraulic fluids or electric motors to achieve vertical movement. The basic structure typically consists of a sturdy steel table platform with the lifting action being initiated and controlled by air cylinders, which expand or contract based on the flow of compressed air supplied by an external source.

Pneumatic Lift Tables are available in a range of capacities, platform sizes, and lift heights to accommodate various types of loads and operational requirements. Their design ensures reliable performance while minimizing the risk of leaks or contamination, which can be a concern with hydraulic systems.

Pneumatic Lift Tables consist of an eccentric lift table powered by compressed air. The frame consists of a box (frame) section and angled steel fixed to the floor by adjustable feet. The vertical support provides vertical guidance for the roller bed to be lifted. Cam 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.

A Power Roll Bed is a powered conveyor surface that consists of multiple rollers and is installed on the lift table's platform. This feature is designed to automate the transfer of loads onto or off the lift table, creating a seamless interface between different conveyor systems or between a conveyor and a workstation.

Benefits of Pneumatic Lift Tables include:

- **Clean Operation:** No hydraulic fluids means less chance of leaks or contamination, making them ideal for clean rooms, food processing, and pharmaceutical environments.
- **Low Maintenance:** With fewer moving parts and no fluids to monitor, Pneumatic Lift Tables often require less frequent maintenance than hydraulic models.
- **Energy Efficiency:** When connected to a central compressed air system, pneumatic tables can save energy, especially in facilities already using air-powered tools and equipment.
- **Precise Control:** Operators can raise or lower the platform incrementally, allowing for accurate positioning of materials.
- **Ergonomics:** By adjusting loads to comfortable working heights, these tables reduce fatigue and musculoskeletal injuries among workers.
- **Durability:** Robust construction and reliable air-powered mechanisms lead to long service life, even in demanding environments.