Positech’s pneumatic Vertical Lift Cylinder (V-Lift) is ideal for straight line transfers, over-the-assembly line handling and reach-in operations when combined with an overhead rail system or a Positech Articulated Jib Boom.

Exceptional off-center payload handling for reach-in applications is derived from Positech’s heavy duty industry leading design, which uses external cylinder tie rods and dual linear bearings. The V-Lift is available in four model configurations and provides up to 2,500 pounds of payload capacity.
Vertical Lift Cylinder

**For Performance and Quality**
- Up to 24,000 inch pounds of moment loading for extended reach payload applications
- 360° continuous rotation around vertical axis
- Includes air filter/regulator system
- Standard flange mounting for adaptability to a variety of custom end-effectors
- Precision linear bearings for smooth motion and long life
- Standard pistol grip or optional ergonomic twist grip controls
- Mounting Options: single arm jib crane, Positech Articulated Jib Boom or trolley/overhead bridge crane

**Positech Advantages**
- 5:1 design factor minimum on all structural components
- Narrow design of lift assemblies minimizes obstructions in the operator’s line of sight
- Pilot operated lock valve on lift cylinder prevents downward movement if sudden loss of air pressure occurs
- Gripper Safety Circuitry available, prevents accidental release of unsupported payloads
- Minimum Lift Circuit is standard, allowing controlled downward movement
- Does not require an air lubricator

**Technical Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity* lbs (kg)</th>
<th>Moment Capacity in-lbs (N-m)</th>
<th>Stroke in (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VL500</td>
<td>500 (225)</td>
<td>8000 (903)</td>
<td>12-60 (305-1524)</td>
</tr>
<tr>
<td>VL800</td>
<td>800 (363)</td>
<td>12000 (1356)</td>
<td>12-60 (305-1524)</td>
</tr>
<tr>
<td>VL1400</td>
<td>1400 (635)</td>
<td>12000 (1356)</td>
<td>12-60 (305-1524)</td>
</tr>
<tr>
<td>VL2500</td>
<td>2500 (1130)</td>
<td>24000 (2711)</td>
<td>12-60 (305-1524)</td>
</tr>
</tbody>
</table>

Requires 80 psi (5.52 bar) clean, dry air to operate at capacity
*Includes payload and end-effector.

**Custom End-Effectors**
Customized end-effectors, operator controls, and specialized pneumatic circuitry are available to meet your requirements.