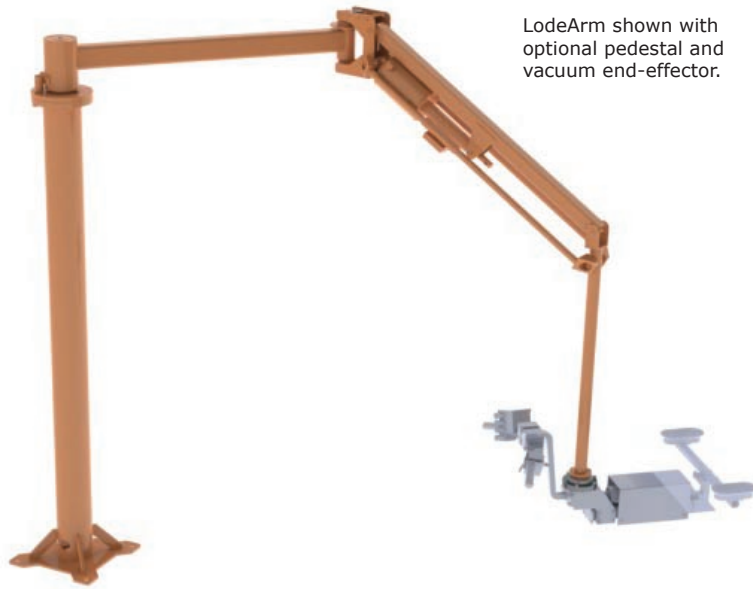


LodeArm[®]

MANIPULATOR

LIGHTWEIGHT. COMPACT. ERGONOMIC.



LodeArm shown with optional pedestal and vacuum end-effector.

Positech's pneumatic LodeArm[®] lightweight manipulator provides excellent maneuverability of payloads up to 275 pounds, increasing workers' capacity to perform physically stressful, repetitive lifting tasks.

Easily adjustable to fit almost any work cell, Positech's LodeArm is a high-capacity lift system in a compact package. Great for low headroom applications, this manipulator provides rigid support and reach-in capability.

The LodeArm is available in four model configurations. It provides up to 54 inches of vertical lift and flexible mounting options.

The LodeArm II is a lightweight, low headroom, trolley mounted solution specially suited for servicing large work cells.



LodeArm II shown with trolley mount.

❖ Applications



Trolley mounted LodeArm with fork end-effector loading and unloading trays from an AS/RS.



Optional 360° middle joint allows the LodeArm to maneuver in tight work cells, while handling silicon rods.



Pedestal mounted LodeArm loading and unloading castings from a machining center.

LodeArm[®] MANIPULATOR

LIGHTWEIGHT. COMPACT. ERGONOMIC.

For Performance and Quality

- Lightweight and easy to position
- Pistol Grip Metering Controls lift and lower for ease of operation
- Optional balance controls allow an operator to achieve critical load positioning by hand, without activating up/down valve
- 360° continuous main post rotation
- End-of-arm rotating axis has up to 5,000 inch pounds of end-of-arm moment loading
- Pneumatically operated, requires clean dry input pressure
- Precision bearings and thrust washers at rotation axes for smooth motion and long life
- Adjustable friction brakes on all rotation axes allowing the operator to set arm motion for ease of operation
- Standard pistol grip or optional ergonomic twist grip controls
- Mounting Options: overhead, trolley, pedestal, wall mount, column, machine or mobile/portable base

Positech Advantages

- 5:1 design factor minimum on all structural components
- Pilot operated lock valve on lift cylinder and gripper cylinders prevent downward arm movement and loss of payload if supply pressure is interrupted
- Gripper Safety Circuitry available, prevents accidental release of unsupported payloads
- Lost Load Cylinder is a separately sealed hydraulic device that protects the operator from any sudden, uncontrolled upward motion of the manipulator arms
- Parallel linkage arms allow end-effector to remain parallel to the floor
- Minimum Lift Circuit is standard, allowing controlled downward movement of payload
- Floor mounted pedestal provided with concrete anchor bolts, mounting hardware and leveling jacks for ease of installation (No grout required)
- Does not require an air lubricator
- Complies with CE and other National Standards

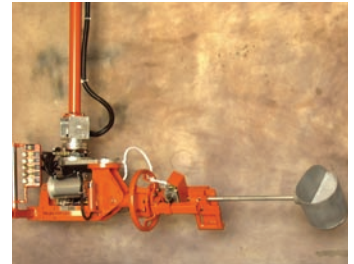
Technical Specifications

Model	Maximum Lift Capacity* lbs (kg)	Reach in (mm)	Maximum Lift in (mm)
LA3030	275 (125)	67-120 (1702-3048)	54 (1372)
LA4500	275 (125)	67-120 (1702-3048)	38 (965)
LAI3030	275 (125)	41-61 (1041-1549)	54 (1372)
LAI4500	275 (125)	41-61 (1041-1549)	38 (965)

Requires 90 psi (6.21 bar) clean, dry air to operate at capacity
 *Maximum capacity at 36" lift arm length. Includes payload and end-effector; increasing arm length reduces payload capacity



Vacuum end-effector picks box from horizontal, pitches to vertical, unfolds and positions over appliance.



End-effector used to pour metals into molds.



Vacuum end-effector rotates, flips, and installs left and right hand windows in cab assembly.



Mechanical end-effector is designed to hold a high pressure wand to minimize operator fatigue.

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

Positech
 CORPORATION
 The Leader in Positioning Technology