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Linear without handle  
assembly, controls or  
tooling.

## Linear Industrial Manipulators

The Linear pneumatic manipulator is the ideal solution for vertical handling of products and components that require precision manipulation and ease of movement. Featuring a linear guide movement, this system ensures perfectly aligned vertical travel, eliminating oscillations and delivering millimetric control during picking and positioning operations. It is capable of handling large and heavy loads with exceptional accuracy and maneuverability.

When mounted on overhead rails, the Linear can cover wide working areas with remarkable agility. The sliding structure, combined with active pneumatic balancing, effectively cancels out the weight of your products, enabling the operator to move bulky items along extended production lines with minimal physical effort and smooth travel from the pick-up point to the drop off point.

The Linear can be configured for different production environments—metalworking, sheet metal processing, industrial assembly, heavy component handling—and offers a reliable choice even for intensive cycles thanks to its robust structure and minimal maintenance.

Each Linear manipulator is a customized solution integrating tailor made gripping tools, optimizing your plant layout and improving the ergonomics of your handling processes.

### Specifications:

- Capacity- up to 1,500-lbs
- Lifting system- pneumatic lift cylinder(s)
- Offset loading- 2.25' to 11' depending on load
- Vertical lift- 48" to 72" (*special device for increased lift available*)
- Boom type- articulated
- Mast rotation- 360° continuous rotation
- Weight- 325-lbs to 1,295-lbs
- Warranty- 1 year
- Finish- baked on enamel
- Air supply- 70 to 120-psi clean dry filtered air
- Configurations- fixed overhead, attached to overhead rails available with optional power drives.

***We turn your difficult handling tasks into  
powerful productive solution!***

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# Safety Features

The following safety features are designed to allow each manipulator to operate in practically any working environment. Each manipulator is equipped with multiple safety devices that ensure the safe execution of each handling cycle from beginning to end even if the incoming air supply is accidentally cut off or if the operator inadvertently presses the release control button.



## 1 Non-Return Valve

This valve, installed on every manipulator prevents the air supply from escaping in the event the main air supply is cut off allowing the operator to finish the handling cycle safely.



## 2 Reservoir Tank

This tank, also installed on every manipulator provides a supplemental supply of air needed in the event the main air supply is cut off allowing the operator to finish the handling cycle safely.



## 3 & 4 Security Valve & Overload Valve

The security valve kicks into action in the event any of the internal piping, hoses or tubing is breached allowing the load to slowly & safely lower to floor level.

The overload valve prevents the operator from accidentally overloading the manipulator thus preventing a potential safety problem.



## 5 Silencer Device

An acoustic silencer is installed on every manipulator, it reduces the existing air pressure down to a safe 70db in the operating area.



## 6 Driven Non-Return Valve

This valve is installed on air cylinders powering of the gripping tool, it ensures that the grip is not released in the event any of the upper air supply lines are breached or become damaged preventing the accidental release of the load.

**ASE Systems**

*"The Ergonomics & Productivity Specialists"*

# Tooling Examples

Powered  
Grippers



Vacuum  
Grippers



Magnetic  
Grippers



Misc  
Grippers

