



## Material Handling Equipment

### Standard Products

- ◆ Articulated Jib Cranes
- ◆ Articulated Lifting Arms
- ◆ Torque Arms
- ◆ Machine Loading Systems
- ◆ Industrial Manipulators
- ◆ Standard & Custom End Effectors

### Special Applications

- ◆ Model SL100 "Maxi-Lift" Pneumatic Lift
- ◆ Model BG250 Package Handler
- ◆ Pneumatic Overload Circuit
- ◆ Portable Jib Cranes
- ◆ Pos-A-Lift Pneumatic Lifting Hoist
- ◆ Solid Surface Vacuum Lifter



Model SL100 "Maxi-Lift"  
Pneumatic Lift



Torque Arm



Solid Surface  
Vacuum Lifter



Articulated Jib Crane



Portable Jib Crane



End Effector



Articulated Lifting Arm

**REACH**



**RANGE**



**RELIABILITY**

# AIMCO Material Handling Equipment

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## Articulated Jib Cranes

AIMCO Articulated Jib cranes are widely considered the finest available. The AIMCO bearing design assures smooth and effortless rotation allowing loads to be moved freely throughout the entire work circle.

Air or electrical lines are internal to the arms with rotating swivels or collector rings to maintain a continuous 360 degree rotation at the pivot bearings.

Capacities range from 50 LBs to 2000 LBs with radial reaches up to 15 feet are available. Each rotation joint is equipped with Timken tapered roller bearings, pre-greased and sealed providing a 5:1 safety factor.



**Left:** Model SL100 "Maxi-Lift" Pneumatic Lift Mounted to an Articulated Jib Crane



**Right:** Articulated Jib Crane With Air Balancer

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## Articulated Lifting Arms

AIMCO's Articulated Lifting Arms are ideal for load manipulation in low headroom environments. Lifting arms provide the ability to reach-in, around, and under obstructions while providing a safe & secure means of load handling.

End of Arm Tooling for AIMCO's articulated lifting arms range from simple lifting forks to custom grippers with mechanical grabs or Vacuum Lifts.

Parallel linkage is standard to assure the tooling and load retain the proper orientation throughout the lift and transfer operation. "Soft Start" cylinders with speed adjustment provide for a smooth, regulated lift and lower motion.



Articulated Lifting Arm With Mechanical Lifting Forks



### Standard & Custom End Effectors

AIMCO has extensive experience in the design and manufacture of end effector tooling, from simple configurations to the complex. AIMCO provides a variety of both standard and custom designed tooling to safely and efficiently handle any type of load.

Physical clamping, vacuum technology, magnetic, manual or any combination to suit the application is provided by AIMCO.

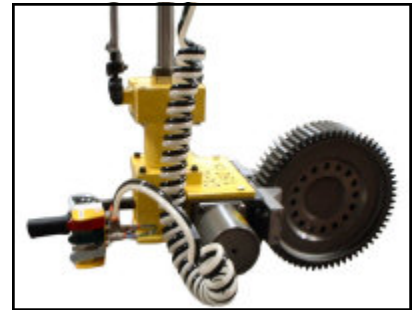
AIMCO provides control packages that are designed for reliable product handling and can be supplied to manipulate loads in a variety of ways. Loads can be tilted, inverted, or simply picked and placed.



Mechanical Grab



Vacuum Grab



Mechanical Grab



Torque Arm With Articulated Jib Crane

### Torque Arms

The AIMCO torque arm bridges the gap between a hoist and a Manipulator. The torque arm provides a rigid "load arm" between the work piece and the crane allowing off-center loads to be securely transported and manipulated without a loss of required product orientation. Reach-in applications are accomplished in a safe, easy and ergonomic manner.

When mounted to an AIMCO Articulated Jib Crane or a workstation bridge crane with dual girder bridge, the Torque Arm provides all the flexibility of a complex manipulator system at a significantly lower cost

# AIMCO Material Handling Equipment

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## Machine Loading Systems

AIMCO's "State-of-the-art" machine loading systems offer operator safety and flexibility when performing difficult machine loading and product manipulation. Machine loading systems provide reach-in capabilities for machine loading as well as ease of load movement both laterally and vertically.

Most AIMCO machine loading systems will use an AIMCO articulated Jib Crane with a Torque Arm and End Effector or an AIMCO Articulated Lifting Arm with End Effector.

The equipment selection is determined by the requirements of arm reach, capacity, tool reach-out and machine opening clearances.

An AIMCO Sales Engineer can help you select the best system.

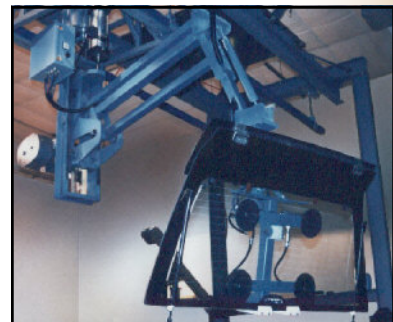


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## Industrial Manipulators

AIMCO Manipulators are ideal for material handling of light to heavy loads and capacities range up to 1700 LBs. Vertical lifts are available up to 90 inches and the Manipulator operates on 90 PSI plant air.

A Manipulator is only one component of a work cell or material handling system. AIMCO provides a variety of both standard and Custom End Tooling to safely and efficiently handle material loads.



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**POWER**



**PRECISION**



**PROTECTION**

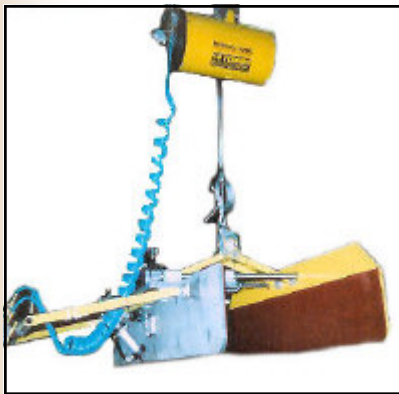


## Material Handling Equipment

### Model SL100 "Maxi-Lift" Pneumatic Lift

AIMCO's Model SL100 Low Headroom "Maxi-Lift" Pneumatic Lift provides maximum lift in work areas where headroom is a premium and payload reach-out is required. Ergonomically designed for hard to access work areas, the Model SL100 features capacities up to 150 Lbs and vertical lift up to 10 feet.

The model SL100 is equipped with AIMCO's exclusive, patent pending, **Pneumatic Overload Circuit** which eliminates unsafe lifting conditions and protects delicate payloads. Several options are available including additional safety features and **Custom End Effectors**.



### Model BG250 Package Handler

AIMCO has extensive experience in the design and manufacture of end effector tooling, from simple configurations to the complex. AIMCO provides a variety of both standard and custom designed tooling to safely and efficiently handle any type of load.

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AIMCO provides control packages that are designed for reliable product handling and can be supplied to manipulate loads in a variety of ways. Loads can be tilted, inverted, or simply picked and placed.

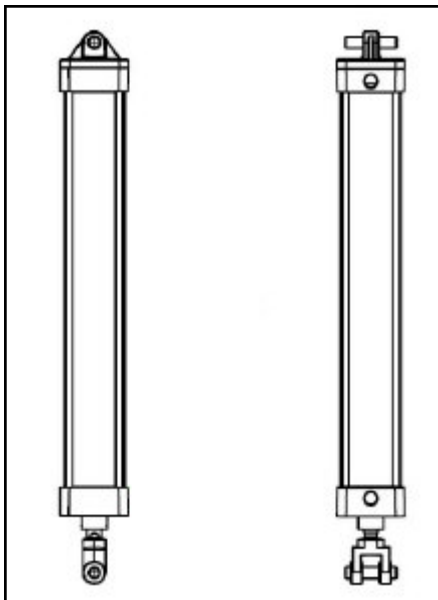
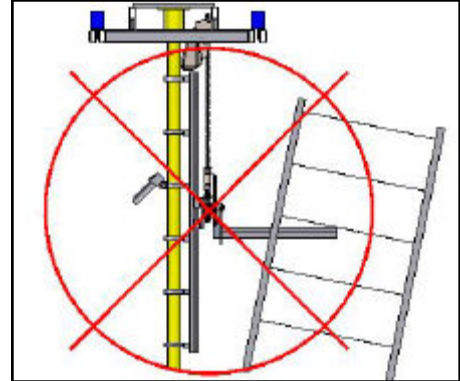
# AIMCO Material Handling Equipment

## Pneumatic Overload Circuit

Air hoists are designed to provide specific maximum lifting capacity. When in a lift mode, the hoist will have the capability to lift to its rated capacity.

Often times the tooling and payload have a combined weight less than that of the hoist. In product handling there is often a concern about catching the tool and/or payload on an obstruction. When this happens, the excess capacity of the air hoist can create an unsafe situation.

AIMCO's exclusive, patent pending, Pneumatic Overload Circuit eliminates unsafe lifting conditions, protects delicate payloads and end tooling.



## Pos-A-Lift Pneumatic Lifting Hoist

The Pos-A-Lift is a pneumatic lifting mechanism (hoist) that acts as a straight rod between the load and the support.

The load can be set to **"float"** by making the load virtually weightless and because the operator retains **"load feel"**, it is far easier to position and set loads with speed and precision.

The straight rod **"reduces drag"** and **"overtravel"** problems, inherent with conventional chain and wire rope hoists.

The Pos-A-Lift is ideal for performing repetitive parts handling or handling and positioning tools and fixtures.

**SAFETY**



**SECURITY**



**RELIABILITY**



## Material Handling Equipment

### Portable Jib Cranes

AIMCO's portable jib cranes are widely considered the finest available and provide portability for flexible manufacturing environments.

Capacities are available up to 75 LBs and reach up to 7 feet. AIMCO Portable Jib Cranes feature 360 degree rotation at main bearing while air lines run internally to bearing to maintain continual rotation. Portable Jib Crane features also include enclosed track jib design, durable polyurethane with independent floor lock, and cart with push handle.



### Solid Surface Vacuum Lifter

One person, easy operation for lifting, moving, repositioning and placing hard to handle solid surface material. System operates on plant compressed air, with very low air consumption requirements.

AIMCO's Solid Surface Lifter can be mounted to a Jib Crane for specific work stations, or suspended from a bridge crane for increased floor coverage. Single bridge design maintain loads center of gravity in horizontal or vertical position.

**AIMCO Manufacturing can custom design any lift assist system to suit your application**

# AIMCO Material Handling Equipment

## About AIMCO Manufacturing

AIMCO Manufacturing is a leading manufacturer of material handling equipment including articulated jib cranes, industrial manipulators, machine loading systems and custom end effectors.

AIMCO Manufacturing began operations in 1993 with the procurement of designs for an industrial manipulator and an articulated jib crane previously manufactured for direct sale to the automotive industry. AIMCO re-designed and expanded this equipment and began marketing through material handling distributors to industrial markets as a whole.

Over the past 13 years, AIMCO has continued to grow through the development of new products and the addition of new distributors and markets. Today AIMCO products are helping the production processes of a vast array of goods and services in the United States, Canada, Mexico, Taiwan and China.

In the transportation industry, AIMCO lift assist products handle components for most major manufacturers of automobiles, trucks, fork lifts, tractors, aircraft, trains, boats, snowmobiles and motorcycles. Building products such as garage doors, furniture, insulation, windows, kitchen and bath appliances are handled by AIMCO lift assist equipment. The medical equipment and food processing equipment industries utilize AIMCO lift assist equipment. AIMCO equipment can be found in a number of communication and entertainment industries handling computers, copy machines and televisions. AIMCO products are helping reduce injuries in steel producing, metal forming, machining and foundry operations nationwide.

In 2003 AIMCO Manufacturing merged with **c2M** Corporation and now resides in a 100,000 square foot production facility where our engineers and production staff work hard every day to develop and produce the finest industrial lift assist systems available.

### The AIMCO Advantage

- ◆ *Increased Productivity*
- ◆ *Ease of Movement & Positioning*
- ◆ *Enhanced Operator Safety*
- ◆ *Reduced Operator Fatigue*
- ◆ *Improved Work Force Utilization*
- ◆ *Protection of Delicate Payloads*
- ◆ *Increased Quality*
- ◆ *Increased Profits*



203 Matzinger Road Toledo, OH 43612

**Main Office:** 419-478-4851

**Sales Office:** 419-618-2654

**Fax:** 419-476-1324