



---

# Air Casters & Air Jacks

Move Heavy Loads Using Air Film Technology



[www.aeriscorporation.com](http://www.aeriscorporation.com)



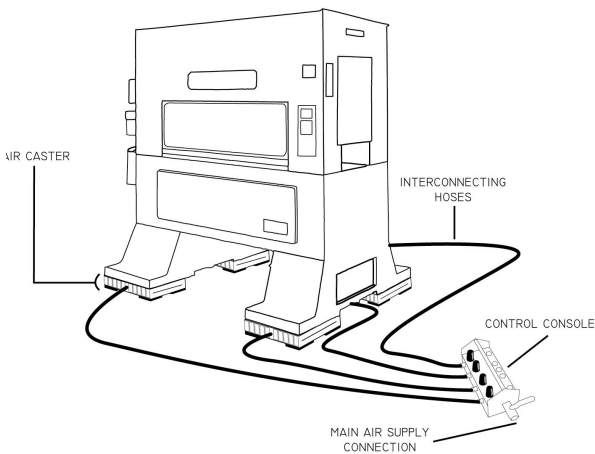
# Rigging Kits for Machinery Moves

Standard Rigging Kits come complete with the following:

- \* Four or Six Air Casters
- \* 20 foot long interconnecting hoses with quick disconnect couplings
- \* Control console with on/off ball valve

Options include:

- \* Remote pilot operated pendant control
- \* Top mounted inlet manifold
- \* Side mounted inlet manifold
- \* Suitcase style handles for easy carrying
- \* Supply hose
- \* Safety cutoff fuse
- \* Hose reels
- \* Startup assistance



Standard Load Module Kits are ideal for moving a wide variety of loads with varying lengths, widths and heights. Simply size the system capacity as show below:

## Capacity Chart per Air Caster (Pounds)

Element	G Caster	S Caster	H Caster
Diameter (Inches)	Std Duty Low Lift	Std Duty High Lift	Heavy Duty High Lift
12"	2,000	2,500	5,000
15"	3,500	4,000	8,000
21"	7,000	8,500	17,000
27"	12,000	14,000	28,000
36"	N/A	25,000	50,000
48"	N/A	45,000	90,000



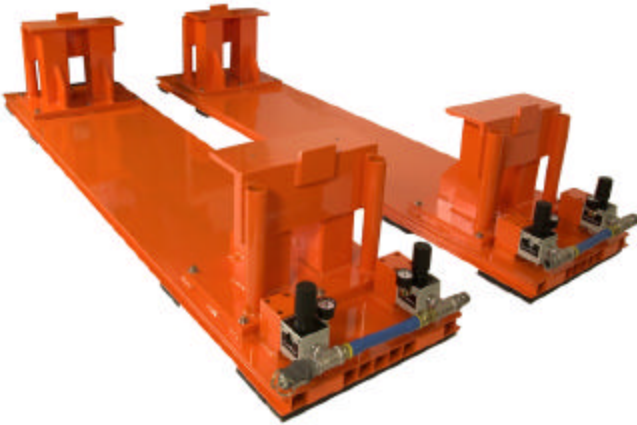
Air Casters are generally used in lieu of wheels and have many advantages. All that's needed is a source of compressed air, a smooth sealed surface such as cement, tile, or steel floor and a load ranging in weight from 200 pounds up to 5,000 tons. Some of the technical features that make air casters the preferred choice for moving heavy, bulky or sensitive loads are as follows:

- \* Low frictional force
- \* Omni or 4 directional motion
- \* Precise positioning
- \* Protects floor finish
- \* Eliminates need for fork trucks/overhead cranes
- \* Operates on plant air
- \* Clean and quiet operation
- \* Low surface loading
- \* Gently move sensitive loads
- \* Safely move and control heavy loads



---

## Plank Kits for Fixed Width Loads



Standard Plank Kits come complete with the following:

- \* Two Air Casters per plank
- \* 10 foot long interconnecting hose with quick disconnect couplings
- \* On/off ball valve and pressure regulator
- \* Centered suitcase handle for easy carrying

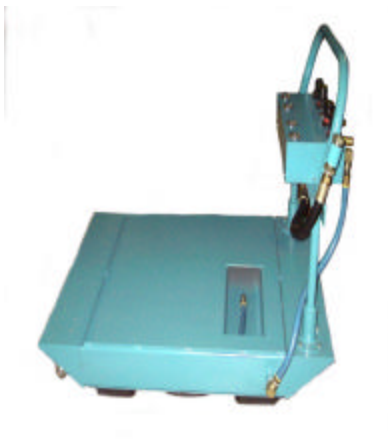
Options include

- \* Top mounted inlet manifold
- \* Double entry NPT inlet manifold
- \* U-shape handles with no-load wheels
- \* Supply hose
- \* Safety cutoff fuse
- \* Hose reel
- \* Start-up assistance



Air planks are used when the load to be moved has a fixed width however the length can vary. If the load becomes exceptionally long or if center support is needed three or more planks can be used.

## Pallets for Fixed Width and Length Loads



Standard Pallets come complete with the following:

- \* Four Air Casters per pallet
- \* On/off ball valve and pressure regulator

Options include:

- \* No load wheels with S style caster
- \* U shape handles with air mast
- \* Guide wheel with spring release throttle
- \* Quad entry NPT inlet manifold
- \* Top mounted inlet manifold
- \* Supply hose with quick disconnect
- \* Safety cutoff fuse
- \* Start-up assistance

Air pallets are ideal when a consistent load with a fixed width and length need to be moved within a limited area. Typically the air pallet is inserted under the load and inflated to pick it up prior to transport or it is loaded via fork truck and/or overhead crane.



## Air Jacks



Air jacks designed for lifting applications are especially convenient when used in conjunction with air casters. These ultra thin air jacks are less than 1" thick, can be easily inserted under a machine base and inflated in a controlled matter in just seconds. Once raised the air casters can be placed under the load and are ready to go. The air jacks are lightweight and come with a handle for portability. Lifting capacities range from 9,600 to 146,000 pounds per individual jack. A complete system includes one air jack, one interconnecting hose, one hand-held controller, and one main air supply hose. (Note: Maximum working pressure is 116 psi)

Below is a chart highlighting individual sizes, capacities and lift heights.

Size L x W x H (inch)	Capacity - One Jack (lb)	Max Lift Height (inch)*
10 x 10 x 7/8"	9,600	5
15 x 15 x 7/8"	24,000	8
20 x 20 x 7/8"	44,000	11
24 x 24 x 7/8"	64,000	13
28 x 28 x 15/16"	88,000	15-1/2
36 x 36 x 15/16"	146,000	20

\* For capacities at specific lift heights refer to Load versus Lift Height Chart

## Custom Products



Aeris Corporation designs and builds products that will provide you with economical solutions to your material handling challenges. For instance, standard load modules, planks and/or pallets can be retrofitted with various adaptor plates or fixtures to make it easy for your in-house personnel to manually move large bulky loads with little effort.

In addition, powered drives are available as shown in the photo to the right. It consists of two battery powered wheeled drives that provide forward/reverse, side to side, oblique and rotational moves.

Want to improve your in-plant productivity please call:

**Aeris Corporation**  
**4604 Kolb Ave.**  
**Columbus, GA 31904**

**(800) 323-0571 Toll Free**  
**(706) 323-0500 Phone**  
**(706) 323-0510 Fax**

[info@aeriscorporation.com](mailto:info@aeriscorporation.com) email address  
[www.aeriscorporation.com](http://www.aeriscorporation.com) web site