

ADVANTAGE

Commitment to Quality Processes

AeroGo's focus on quality throughout the manufacturing process has delivered consistently reliable products for 40+ years

Quality is about an attitude, process and drive to make things right. Since 1967, AeroGo has set the standard for delivering high quality air casters. Every day, in every country in the world, our customers depend on reliable air casters to move products.



We are judged as a company by what comes out of the shipping crate and how it performs. We are committed to build and rely on a single quality standard for ALL the products we produce. Our in-house manufacturing processes build quality from the start and continue all the way through.

It is our job to continuously improve our lean processes, purchasing and scheduling. We insist on 100% quality checks as products go through our facility. Quality is part of who we are as a firm and that philosophy translates into every AeroGo air caster product. It's an awesome job and we are proud to do it.

– Rick Ruelle,
Director of Quality and
Research and Development



From B2 bombers to nuclear waste canisters; RVs to the NFL Pro Bowl™ stadium, AeroGo's air casters move loads from 500 pounds to over 5,000 tons safely and accurately with near zero floor or surface damage – and in a lot less time than traditional material handling methods.

Is There Anything Air Can't Move?

Not if it's from 500 - 5,000,000 lbs; in any shape, girth, platform or base

Air Bearings, sometimes called air casters, enable loads of all sizes, to be moved nearly effortlessly on a frictionless cushion of air. For most industries, businesses and organizations that face load moving tasks, Air Bearings offer spectacular advantages over rollers and wheels, levers and muscle-powered technology older than Egyptian pyramids. Today AeroGo Air Bearings have brought load moving into the 21st Century and provide unimaginable ease, economy and labor saving to move heavy products or cumbersome loads in the workplace.

Air bearings (air casters) used in tools pioneered by AeroGo, and configured for a huge range of load moving applications, today move everything from a stack of shipping cartons to a locomotive—all with far lower labor cost, greater safety, more useful flexibility and in less time than with outmoded methods.

Using Compressed Air Provides Big Advantages

Air casters and air systems offer significant advantages over traditional material handling equipment:

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QUALITY POLICY

- AeroGo products and services shall conform to requirements as contracted and required by customers, statutory and regulatory bodies.
- AeroGo shall ensure continual improvement of the quality management system.
- AeroGo shall meet or exceed the expectations of our customers.





A worker singlehandedly moves a mega RV to a new station in the assembly line.

- Ergonomic - Ultra Low Friction – Compressed air running through the casters removes friction: movement becomes nearly effortless for even a single person.
- Omni directional Movement – Air casters ‘float’ the load so it can be positioned precisely in any and all directions. All you need is an unobstructed path.
- No Floor Damage – Casters prevent point loading, gouging and scraping. Cost savings result in reduced maintenance, cleanups or floor repairs.
- Low Profile – Easy access to tight, low clearance and tricky to maneuver spaces
- “Green” Material Handling – compressed air has no emissions. Casters require near zero maintenance.

Using air casters to automate an assembly line is brilliant. We’ve relied on our AeroGo casters for 14 years. They are integral to our operation and have saved assembly line labor costs by (on average) 8,000 hours a year.”

- Customer comment

A simple miracle

Air is a fluid and you’ve no doubt seen hovercraft, those remarkable flying saucer-like vehicles that can scoot from the surface of an ocean across the sand of a beach and down a highway. Similar and related fluid mechanics science led to the development of air bearings or air casters.

Air Casters move loads on a fluid film of air

AeroGo Air bearings consist of a structural aluminum base plate with a tough inflatable diaphragm attached to its underside. With a load resting on the plate (Figure 1), the diaphragm is partially inflated with an air compressor, raising the load and creating a seal between the air bearings and the floor.

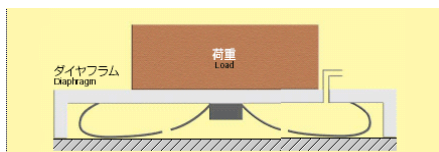


Figure 1

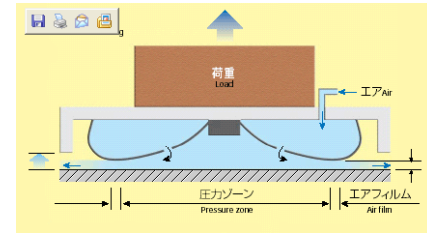


Figure 2

When fully inflated, (Figure 2), air forced out of the diaphragm forms a thin fluid film between the floor and the diaphragm, a friction-free surface enabling heavy load moving with far less physical force, greater control and safety and significantly decreasing manpower required to move the load. And, unlike rollers or wheels, air bearings allow loads to easily glide in any direction (see ‘Air Casters vs. Wheels’ chart, page 4 of this newsletter).

Heavy load moving products from AeroGo

For heavy load moving applications from 500 pounds to over 5 million pounds, AeroGo offers a wide and deep range of standard and custom Air Bearing tools, fixtures, and accessories. This includes precision engineered and performance-built tools such as AeroGo Load Modules, Air Jacks, AirShuttles, Air Planks, Auxiliary Lifts, Roll Handlers and Custom Products. AeroGo heavy load moving products are built for productivity and durability in even the most demanding environments, and boast an industry-first 2 year standard product warranty. All air casters are supported by the best service and follow-through in the business. Guaranteed.

Experience Solving Load Moving Problems

If you have to move an extremely heavy, sensitive, low-tolerance, or awkward load – any type of highly demanding move - AeroGo’s in-house engineers can provide solutions.

See Big Loads Move:

Watch How It Works

Air casters move virtually anything - from theatrical scenery and seating to huge marine barges; from coffee roasters (big ones) to propane gas tanks..... even tanks full of jellyfish! Visit www.aerogo.com/video for just a few examples of how air casters and jacks have solved challenges of moving and positioning. *You will be amazed by the variety and size of things that can move by air.*

When Is An Air Caster the Best Way to Move a Load?

AeroGo air casters are a viable option to move loads from 500 lbs. to over 5000 tons –if you wish to gain these benefits:

Low Friction – Operating on a nearly frictionless cushion of air means less force is required to maneuver heavy loads.

Low Profile – Casters require approximately 2 inches for insertion. Little vertical lift means that the load stays closer to the ground for a safer move.

Easy Turning - Omni directional Movement for tight spaces and precise positioning or alignment. Same force required for moving in any direction, unlike wheels and casters.

No floor damage – Low floor loading means minimal structural requirements. The cushion of air distributes load weight over a greater area protecting and extending the life of epoxy, painted and/or raised floors, and even standard shop floors.

Ergonomic – moves to minimize operator fatigue and maximize safety

Easy to use – No certified operators required

Weight Capacities – 500 lbs. to over 5,000 tons! AeroGo offers the widest range of weight capacities in the industry.

Vertical Lift – Depending on your height needs AeroGo products can provide a little or a lot of vertical lift. Our engineers can work with you to create the most economical option.

Economical – Compared to conventional methods, AeroGo systems have a lower initial cost, lower operating costs and increased productivity.

Flexibility – Cut cycle time in assembly line applications because AeroGo systems don't require fixed components. For the end user this means the ability to change workflow paths as often as they wish, maximizing plant space and giving them the option to add new product lines on a whim.

Product Spotlight Air Planks

Worry-Free Cleanroom Equipment Moves:

Vibrationless Movement and Precise Positioning is Easy with Air Planks

AeroGo air caster products provide vibrationless movement for valuable semiconductor equipment; ensuring flawless tool moves and installations for delicate equipment.



- Safe for cleanrooms
- Low or no emissions
- Low-profile
- Precise positioning to tight tolerances - in all directions
- Air bearings effectively and evenly distribute weight on raised floors
- Omni-directional movement makes it easy to float around tight corners

Application Spotlight

Roll, Reel and Coil Handling

Virtually any heavy, coiled material - plastic, paper, cables, etc. - can be moved with air casters. This means that one person can easily transport, rotate and position rolls, reels and coils up to 4 tons (8,000 lbs.) with AeroGo's Rollmaster. The omnidirectional air casters and no-load wheels facilitate smooth movement, making heavy moves fast and ergonomic. If you already have shop air, casters are a great alternative to forklifts, overhead cranes, floor track systems or manual movement and save time, manpower and money.

- Precise positioning to mandrels
- Eliminates damage caused by traditional material handling equipment methods
- Clean and ergonomic roll handling solution
- Reduce employee safety and lift hazards
- Available with optional handle-mounted throttle
- Larger solutions also available



The People Behind the Products



AeroGo employees take great pride in providing consistently superior Aero-Casters, Aero-Pallets, Aero-Planks and Load Module Systems, whether standard products or custom engineered.



**Innovative Load Moving Solutions
Since 1967**

FAST FACTS:

Air Casters vs. Wheeled Casters

	Air Casters	Wheeled Casters
Amount of force required for one person to move 5,000 lbs	5-25 lbs.	300 lbs.
Floor wear and tear	Near zero	Potential to create grooves; peeling
Changing load direction; omni-directional turns	Easy, accurate and immediate positioning in all directions	Resistant to direction change; sometimes have to lift load and reposition wheels
Vibration or jarring	Near zero; flexible air bag conforms to surface	Less flexible; floor bumps and pits transfer to and through the wheel

Air Casters can replace wheeled casters in many applications, they:

- Protect floors
- Allow precise alignment of heavy loads
- Easily move heavy loads without powered equipment
- Protect delicate machinery during moves

Call 1-800-426-4757 for more info

