



Air Caster Principle

Aero-Casters® “Float” Heavy Loads On Air

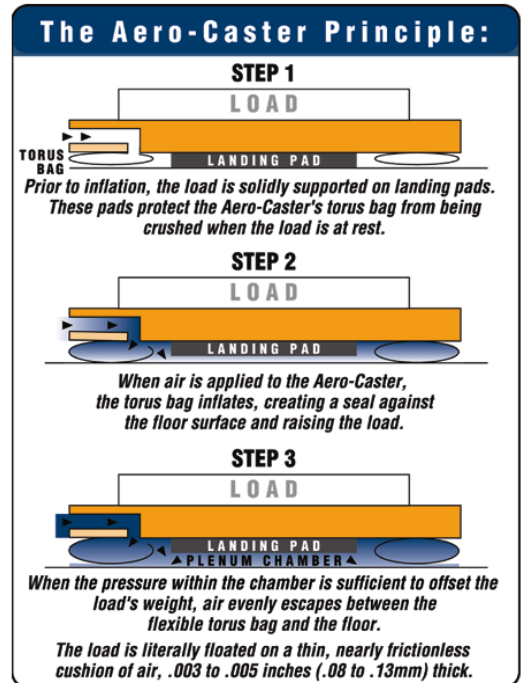
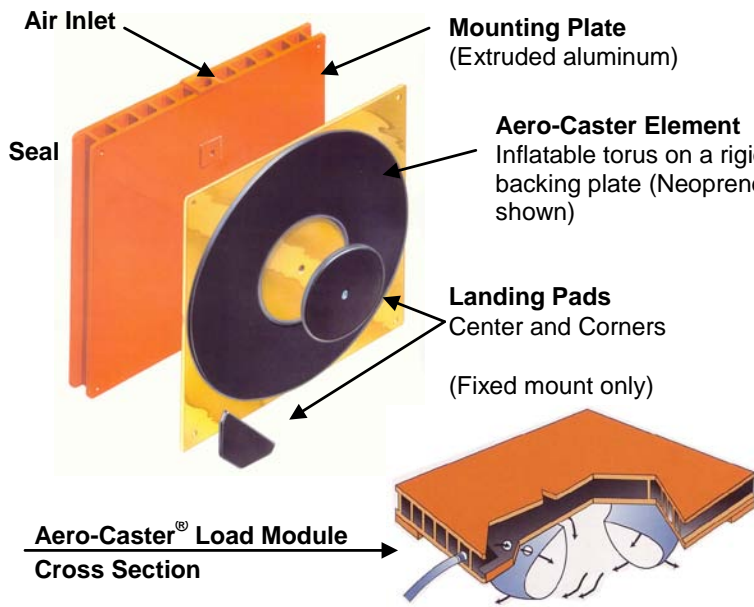
Air casters or air bearings provide a clean, quiet and safe alternative to moving heavy loads. AeroGo® Aero-Casters are designed to literally float loads from 500 lbs. to over 5000 tons on a virtually frictionless film of air. Aero-Casters use pneumatic components such as air regulators and hose, resulting in reliable products that operate in a safe, clean, and ergonomic manner in most environments including cleanrooms.

How Aero-Casters Work: An air film is created by compressed air pumped into the circular air caster diaphragm and center plenum chamber. When the air pressure in the air caster exceeds the weight of the load, air slowly and evenly escapes between the flexible diaphragm and the surface to create a thin, nearly frictionless film of air .003 to .005 inches thick. The load is virtually floating over the floor surface.

Aero-Caster Benefits: Reduced friction and omnidirectional movement allow the operator to precisely place and align the load in a limited workspace. The low profile of the air caster load module requires less than 3-inch clearance. Air casters will not damage floors and expensive reinforcement is usually not necessary, even when moving 5,000 tons.

ISO Certified: Since 1967, AeroGo has been the premiere manufacturer of air caster products. AeroGo is ISO certified by ABS Quality Evaluations, Inc and complies with SAE AS9003: 2001 and ISO 9001:2000 quality standards.

Aero-Caster® Load Module Assembly



Aero-Caster® Models

Neoprene

- Used in over 80% of applications
- The standard of the industry since 1967
- Low pressure and low-load applications
- Heavy Duty neoprene also available

Urethane

- Provides superior resistance to abrasion
- Reinforced with a special seal coating
- For frequent or long moves, rough floors, dust/debris areas

DuraGlide™

- Provides lower lift than other materials
- Perfect for high travel areas
- For surfaces difficult to keep clear of dirt or debris

Gapmaster™

- Allows loads to cross gaps, steps or move over slightly porous surfaces

