

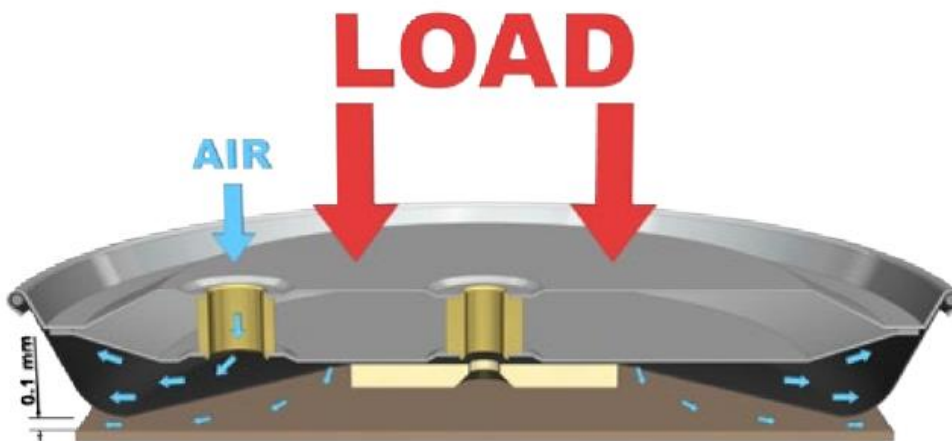
Anglia Handling Services Ltd.

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Biggleswade

Air Casters, Air Bearings, Air Skates



Air Casters, Air Bearings, Air Skates, they are all terms for the same thing. They are pneumatic elements that can be placed underneath an object or frame, allowing almost friction free movement and positioning in all horizontal directions.

The air caster consists of a flexible rubber membrane that is fed compressed air operating from 1 to 4 bar. A controlled leakage of the compressed air creates a thin air film between the floor and the air caster. The air caster can now float a few tenths of a mm above the floor with virtually no friction, which makes it possible to move heavy loads with relatively low force. It only requires 1 kg of pulling force to move a weight of 1000 kg!

For example, one single air caster with a 400 mm diameter has a capacity of 4000 kg. Due to the relatively low flow (1 – 4 bar), no dust is created and the floor does not get damaged because there is no point concentrated load. The noise level is also low due to the low pressure applied.

Main Benefits:

- Less effort required to move loads
- Suitable for very heavy loads
- No floor damage
- Low floor loading
- Virtually friction free
- Low to no maintenance
- Accurate positioning
- Vibration free movement
- Compact, light and efficient design
- Omni directional movement
- Applicable in ISO 5 class clean rooms
- No mechanically wearing parts

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Common Modular Air Caster Systems

Capacity	Type A		Type B	
(kg)	Type	Air Caster	Type	Air Caster
1000	AHS-1-A25N	4 x A25N		
2000	AHS-2-A30N	4 x A30N	AHS-2-B8N	4 x B8N
3000	AHS-3-A30N	6 x A30N		
4000	AHS-4-A30HD AHS-4-A40N	4 x A30HD 4 x A40N	AHS-4-B30N	4 x B30N
6000	AHS-6-A30HD AHS-6-A40N	6 x A30HD 6 x A40N	AHS-6-B30N	6 x B30N
7000	AHS-7-A50N	4 x A50N		
8000	AHS-8-A40HD	4 x A40HD	AHS-8-B40N	4 x B40N
10000	AHS-10-A50N	6 x A50N		
12000	AHS-12-A40HD AHS-12-A50HD AHS-12-A70N	6 x A40HD 4 x A50HD 4 x A70N	AHS-12-B40N AHS-12-B50N	6 x B40N 4 x B50N
16000			AHS-16-B40HD	4 x B40HD
18000	AHS-18-A50HD AHS-18-A70N	6 x A50HD 6 x A70N	AHS-18-B50N	6 x B50N
24000	AHS-24-A70HD AHS-24-A90N	4 x A70HD 4 x A90N	AHS-24-B40HD AHS-24-B50HD AHS-24-B70N	6 x B40HD 4 x B50HD 4 x B70N
36000	AHS-36-A70HD AHS-36-A90N	6 x A70HD 6 x A90N	AHS-36-B50HD AHS-36-B70N	6 x B50HD 6 x B70N
40000			AHS-40-B90N	4 x B90N
48000	AHS-48-A90HD	4 x A90HD	AHS-48-B70HD	4 x B70HD
60000			AHS-60-B90N	6 x B90N
72000	AHS-72-A90HD	6 x A90HD	AHS-72-B70HD	6 x B70HD
80000			AHS-80-B90HD	4 x B90HD
120000			AHS-120-B90HD	6 x B90HD
160000			AHS-160-B125HD	4 x B125HD
240000			AHS-240-B125HD	6 x B125HD

For objects weighing more than 4000 kg, we recommend using external drives to control them safely.

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Air Caster A Type

Low pressure air casters that have a membrane made out of Polyurethane material. They are mainly used for permanent installation underneath a machine, frame or object. Wear free because they are vacuum formed out of a single piece of Polyurethane.

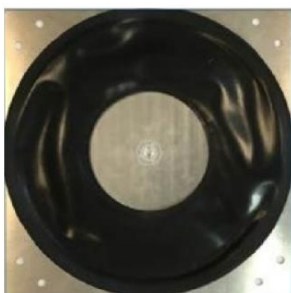


BUILD HEIGHT:	25 mm
AIR CASTER DIAMETER:	200 – 900 mm
LIFT:	5 – 32 mm
CAPACITY:	50 – 12000 kg per piece
AIR PRESSURE:	1 – 2 bar

- Wear free
- Lowest coefficient of friction, 0.001 of the weight
- Least air consumption
- Most suitable for use 24/7
- Easy change air castor system
- Can also be supplied as a water caster

Air Caster B Type

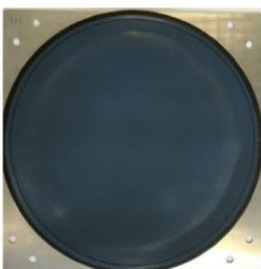
High pressure air casters that have a membrane made from Neoprene. They are mainly used for less frequent movement. They generate a higher lift than the A Type and can therefore both lift and transport the object. Because of the higher pressure they have a higher capacity per diameter.



BUILD HEIGHT:	10 – 28 mm
AIR CASTER DIAMETER:	200 – 1250 mm
LIFT:	15 – 80 mm
CAPACITY:	250 – 40000 kg per piece
AIR PRESSURE:	1 – 4 bar

- Greater capacity per diameter
- Lifts the load before transporting it
- Easy change air castor system
- Can also be supplied as a water caster

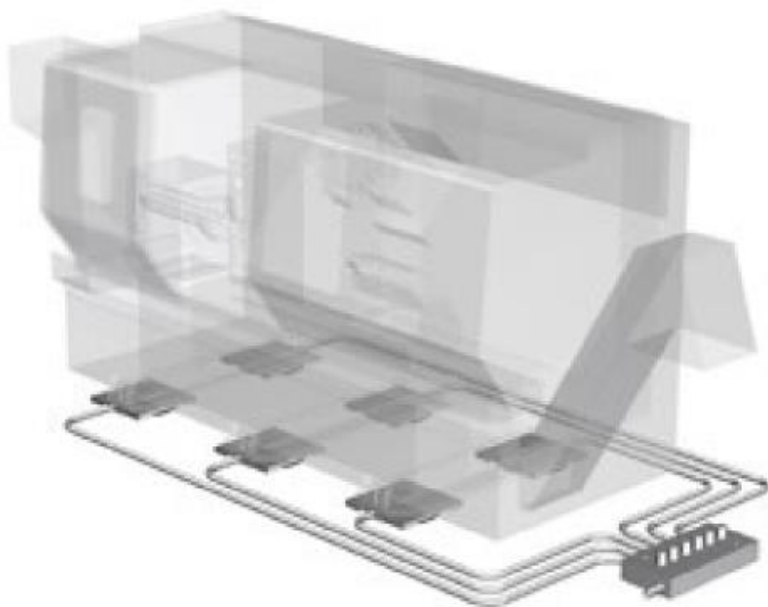
Air Caster NC-Type



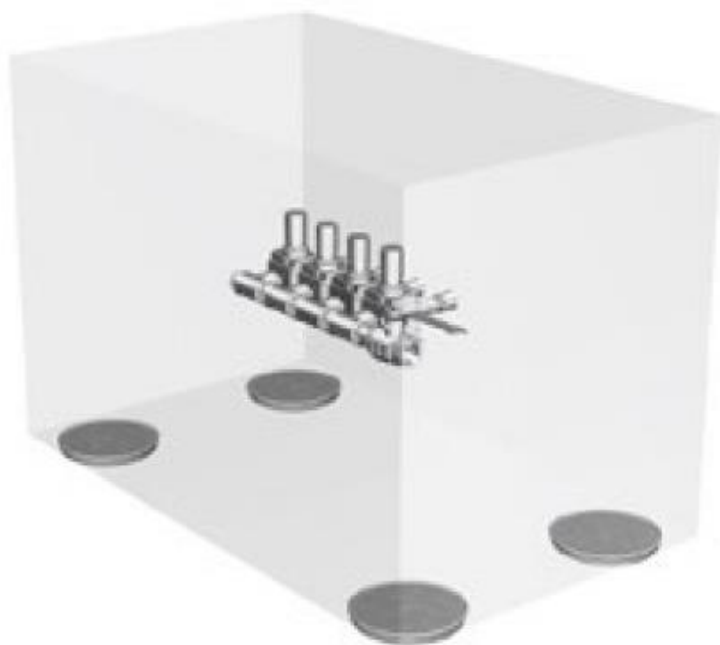
The NC-Type, also called Gapmasters, have multiple smaller holes to divide the air outlet over a bigger surface. Because of this principle they can overcome small gaps in your floor.

Example Systems

Modular System



Permanent System



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