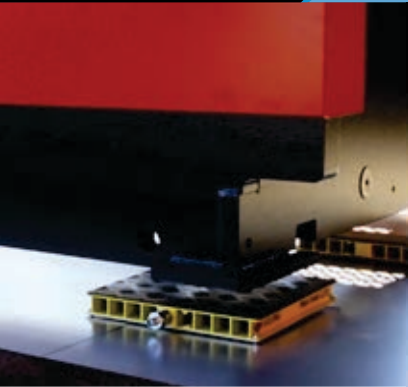




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Air Skates

Air skates are an innovative and cost-effective solution for moving heavy loads



Air skates are robust, low profile, high capacity load-moving modules used in sets of four or more to enable large or heavy objects to be moved with ease.

Versatility and Efficiency

Combine simplicity of operation with extreme versatility. Load movement is easy, exceptionally smooth, omnidirectional and can be performed anywhere in the work environment where there is an adequate floor surface. Operation in tight spaces is a breeze.

Load Module™ Aero-Caster® distribute the load weight over a greater surface than with rollers or wheels, spreading any stress evenly on the floor. This eliminates damage to the floor and the need for expensive tracks, reinforced floors and building structures.

Load Modules™ are easily portable and can be positioned under the load according to weight distribution on load support points. This minimizes stress on the load structure.

Features

- Working load capacities of up to 100 tonnes and higher
- Move loads in restricted areas where forklifts/cranes cannot reach
- Easy to set up with quick release couplings
- Powered by a regular workshop air supply of 5 to 7 bar
- Easy to use and cost effective
- Low floor pressures
- Modular capability giving ultimate versatility
- Accurate and repeatable positioning with omni-directional capability
- Low profile skate modules for ease of location underneath loads

How they Work

The air skates are connected with a hose manifold and supplied with compressed air. With the air turned on, the flow to each air skate is regulated to accommodate the load and floor conditions, allowing the load to be lifted clear of the floor.



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Modular Air Bearing System (MLS)

TECHNICAL INFORMATION

Type C	Capacity per set of 4 ¹⁾		Air consumption ²⁾		Air pressure ³⁾		A mm	B mm	C mm	D in	E ⁵⁾ in	Control unit type
	kg	lbs	Nl/min	SCFM	kPa	psi						
MLS 412X-S	7000	15400	1120	39	300	43	304	31/51 ⁴⁾	15	1/2	1	MRB 4x15-25
MLS 415X-S	10000	22000	2200	77	300	43	250	31/51 ⁴⁾	20	1/2	1	MRB 4x15-25
MLS 418X-S	11200	24200	2600	92	300	43	250	58	20	3/4	1	MRB 4x20-25
MLS 421X-S	14000	31000	3000	106	210	30	250	58	25	3/4	1	MRB 4x20-25
MLS 427X-S	24000	53000	3400	120	210	30	250	65	35	3/4	1 1/2	MRB 4x20-40
MLS 436X-S	44000	97000	4000	141	210	30	250	71	50	3/4	1 1/2	MRB 4x20-40
MLS 418X-H	20000	44000	4600	162	410	59	270	58	20	3/4	1	MRB 4x20-25
MLS 421X-H	28000	62000	5200	184	410	59	270	58	25	3/4	1 1/2	MRB 4x20-40
MLS 427X-H	48000	106000	6000	212	430	62	270	65	35	3/4	1 1/2	MRB 4x20-40
MLS 436X-H	80000	176000	7000	247	400	58	297	71	50	1	1 1/2	MRB 4x20-40
MLS 442X-H	120000	265000	7500	262	400	58	297	71	65	1	2	MRB 4x25-50
MLS 448X-H	160000	353000	8000	282	450	65	297	71	75	1	2	MRB 4x25-50
MLS 460X-H	240000	528000	11000	388	450	57	297	71	75	1	2	MRB 4x25-50

- 1) The modules must be placed under the load so that each one sees no more than one quarter of the full system capacity.
- 2) These figures refer to good floor conditions, e.g. power-trowelled and sealed concrete surfaces.
- 3) Air pressure in air bearing element at max load (100 kPa=1 bar).
- 4) Cast aluminium/ Extruded aluminium construction.
- 5) Supply hose ID and shut-off-valve thread size.

The Modular Air Bearing System includes:

- 4 air bearing modules
- 4 interconnection hoses with quick release couplings
- Control unit equipped with pressure regulator and gauge for each module,
- Supply pressure gauge and plastic support bars
- 30 m supply hose including shut-off valve
- Operating instructions

Optional:

- Remote control unit
- Control unit for six-module system
- Control unit equipped with assembly brackets or ball casters
- 8 m or 10 m interconnection hose
- 50 m supply hose including shut-off valve
- Outlets for air jacks and external drive units

