



Strength to get the job done

Air Skates

Air skates are a cost-effective way of handling heavy and bulky loads with minimal maintenance costs.



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

Easy to use and store

LMS Air Skate systems are easy to set up and operate. One system can be used for a variety of loads, and can be conveniently placed in the storage box provided when not in use.

Omnidirectional movement and precise positioning

LMS Air Skate systems are omnidirectional and enable precise positioning of heavy loads in tight or narrow spaces. Normal shop compressed air is used to power the system. storage box provided when not in use.

No floor wear

Modular Air Bearing Systems float heavy loads on a thin film of air virtually eliminating friction and causing no floor wear.

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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 for a 4-module system

Type ¹	Capacity per set of 4 ²		Air consumption ³		A mm	B mm	C mm	D in	E ⁵ in
	kg	lbs	NI/min	SCFM					
MLS 412X-S-A	7000	15400	1120	39	304	31/51 ⁴	15	1/2	1
MLS 415X-S-A	10000	22000	2200	77	380	31/51 ⁴	20	1/2	1
MLS 418X-S-A	11200	24200	2600	92	457	58	20	3/4	1
MLS 421X-S-A	14000	31000	3000	106	534	58	25	3/4	1
MLS 427X-S-A	24000	53000	3400	120	684	65	35	3/4	1 1/2
MLS 436X-S-A	44000	97000	4000	141	914	71	50	3/4	1 1/2
MLS 418X-H-A	20000	44000	4600	162	457	58	20	3/4	1
MLS 421X-H-A	28000	62000	5200	184	534	58	25	3/4	1 1/2
MLS 427X-H-A	48000	106000	6000	212	684	65	35	3/4	1 1/2
MLS 436X-H-A	80000	176000	7000	247	914	71	50	1	1 1/2
MLS 442X-H-A	120000	265000	7500	262	1070	71	65	1	2
MLS 448X-H-A	160000	353000	8000	282	1220	71	75	1	2
MLS 460X-H-A	240000	528000	11000	388	1505	71	75	1	2

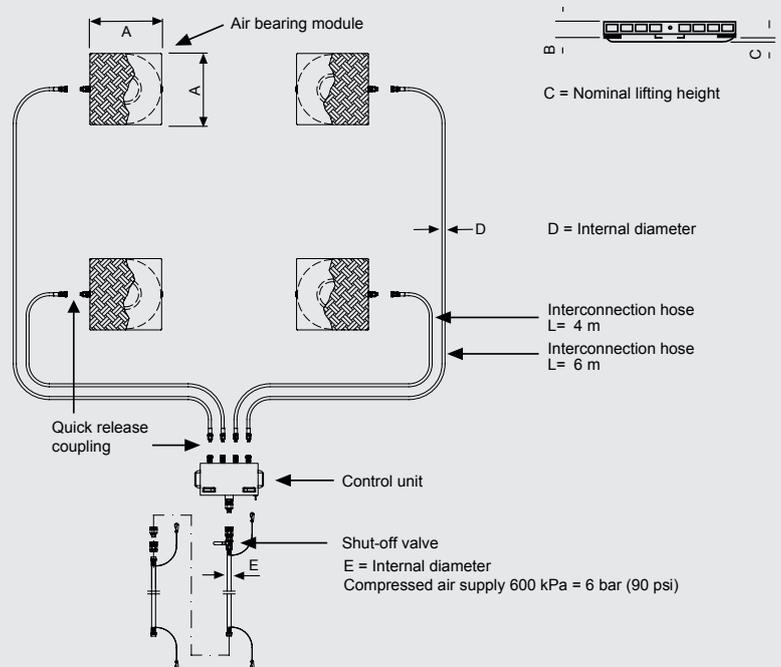
- 1) 'A' refers to standard plastic support bars under the control unit. Other features are available under 'Options' below.
- 2) The modules must be placed under the load so that each one sees no more than one quarter of the full system capacity.
- 3) These figures refer to good floor conditions, i.e. power-trowelled and sealed concrete surfaces.
- 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
- Storage box, operating instructions

Optional:

- Control unit equipped with ball casters (B), assembly brackets (C) or swivel wheels (D)
- 8 m or 10 m interconnection hose
- 50 m supply hose including shut-off valve
- Outlets for air jacks and external drive units



Modular Air Bearing System (MLS)

TECHNICAL INFORMATION for a 6-module system

Type 1	Capacity per set of 6 ²		Air consumption ³		A mm	B mm	C mm	D in	E ⁵ in
	kg	lbs	NI/min	SCFM					
MLS 612X-S-A	10500	23000	1680	59	304	31/51 ⁴	15	1/2	1
MLS 615X-S-A	15000	33000	3300	116	380	31/51 ⁴	20	1/2	1
MLS 618X-S-A	16800	37000	3600	126	457	58	20	3/4	11/2
MLS 621X-S-A	21000	46000	4500	158	534	58	25	3/4	11/2
MLS 627X-S-A	36000	79000	5100	179	684	65	35	3/4	11/2
MLS 636X-S-A	66000	145000	6000	210	914	71	50	3/4	11/2
MLS 618X-H-A	30000	66000	6300	221	457	58	20	3/4	11/2
MLS 621X-H-A	42000	92000	7800	273	534	58	25	3/4	11/2
MLS 627X-H-A	72000	158000	9000	315	684	65	35	3/4	11/2
MLS 636X-H-A	120000	264000	10500	368	914	71	50	1	2
MLS 642X-H-A	180000	396000	11100	389	1070	71	65	1	2
MLS 648X-H-A	240000	529000	12000	420	1220	71	75	1	2
MLS 660X-H-A	360000	792000	16500	582	1500	71	75	1	2

- 1) 'A' refers to standard plastic support bars under the control unit. Other features are available under 'Options' below.
- 2) The modules must be placed under the load so that each one sees no more than one quarter of the full system capacity.
- 3) These figures refer to good floor conditions, i.e. power-trowelled and sealed concrete surfaces.
- 4) Cast aluminium/Extruded aluminium construction.
- 5) Supply hose ID and shut-off-valve thread size.

The Modular Air Bearing System includes:

- 6 air bearing modules
- 6 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
- Storage box, operating instructions

Optional:

- Control unit equipped with ball casters (B), assembly brackets (C) or swivel wheels (D)
- 8 m or 10 m interconnection hose
- 50 m supply hose including shut-off valve
- Outlets for air jacks and external drive units

