

Modular Air Bearing System (MLS)



Solving standard Modular Air Bearing Systems are perfect for handling almost any kind of loads from a few thousand kilograms up to 360.000 kilograms.

Easy to use and store

The systems are easy to set up and operate. One system can be used for various kinds of loads, and it can be stored in its storage box when not in use.

Omnidirectional movement and precise positioning

Solving Modular Air Bearing Systems are omnidirectional and can thus be operated also in narrow areas and positioned precisely. Normal shop air is used for air supply to the system.

No floor wear

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

Cost-effective

Solving Air Bearing Modules are a cost-effective way of handling heavy and bulky loads with minimised maintenance costs.

Examples of application

Moving machines into and out from production facilities

Handling production equipment inside factories

Bringing out ships from repair or production facilities

Handling containers in industry facilities

Handling prefabricated house elements in production



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TECHNICAL INFORMATION for a 4-module system

Type ¹⁾	Capacity per set of 4 ²⁾		Air consumption ³⁾		A	B	C	D	E ⁵
	kg	lbs	NI/min	SCFM	mm	mm	mm	in	in
MLS412X-S-A	7000	15400	1120	39	304	31/51 ⁴	15	1/2	1
MLS415X-S-A	10000	22000	2200	77	380	31/51 ⁴	20	1/2	1
MLS418X-S-A	11200	24200	2600	92	457	58	20	3/4	1
MLS421X-S-A	14000	31000	3000	106	534	58	25	3/4	1
MLS427X-S-A	24000	53000	3400	120	684	65	35	3/4	1 1/2
MLS436X-S-A	44000	97000	4000	141	914	71	50	3/4	1 1/2
MLS418X-H-A	20000	44000	4600	162	457	58	20	3/4	1
MLS421X-H-A	28000	62000	5200	184	534	58	25	3/4	1 1/2
MLS427X-H-A	48000	106000	6000	212	684	65	35	3/4	1 1/2
MLS436X-H-A	80000	176000	7000	247	914	71	50	1	1 1/2
MLS442X-H-A	120000	265000	7500	262	1070	71	65	1	2
MLS448X-H-A	160000	353000	8000	282	1220	71	75	1	2
MLS460X-H-A	240000	528000	11000	388	1505	71	75	1	2

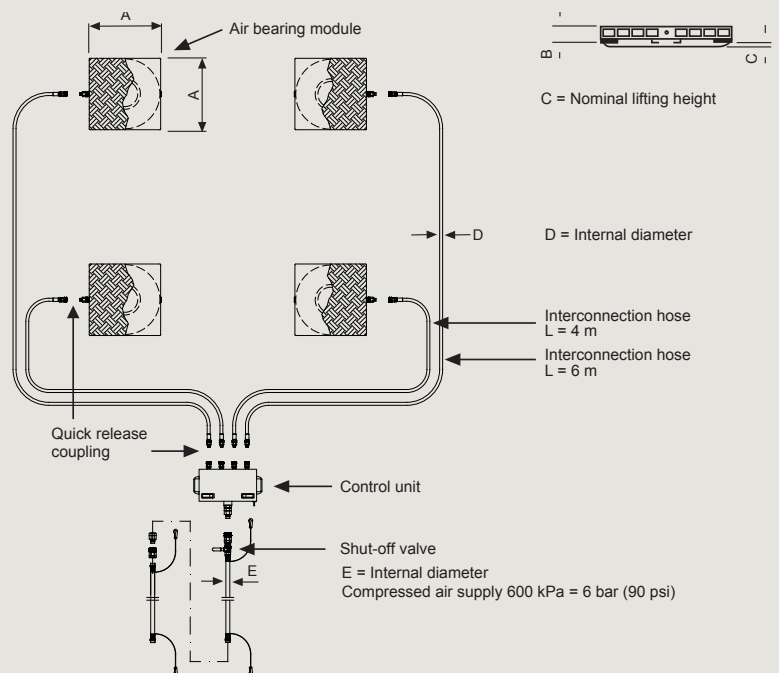
1) 'A' refers to standard plastic support bars under the control unit, other options under 'Optional' below. 2) The modules must be placed under the load so that each one sees no more than one quarter of the full system capacity. 3) These figures refer to good floor conditions, i.e. power-trowelled and 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

Options:

- 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



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CREATING MOVEMENT

Appendix to Modular Air Bearing System (MLS)

TECHNICAL INFORMATION FOR SIX-MODULE SYSTEMS

Type ¹	Capacity per set of 6 ²		Air consumption ³		A	B	C	D	E ⁵
	kg	lbs	NI/min	SCFM	mm	mm	mm	in	in
MLS612X-S-A	10500	23000	1680	59	304	31/51 ⁴	15	1/2	1
MLS615X-S-A	15000	33000	3300	116	380	31/51 ⁴	20	1/2	1
MLS618X-S-A	16800	37000	3600	126	457	58	20	3/4	1 1/2
MLS621X-S-A	21000	46000	4500	158	534	58	25	3/4	1 1/2
MLS627X-S-A	36000	79000	5100	179	684	65	35	3/4	1 1/2
MLS636X-S-A	66000	145000	6000	210	914	71	50	3/4	1 1/2
MLS618X-H-A	30000	66000	6300	221	457	58	20	3/4	1 1/2
MLS621X-H-A	42000	92000	7800	273	534	58	25	3/4	1 1/2
MLS627X-H-A	72000	158000	9000	315	684	65	35	3/4	1 1/2
MLS636X-H-A	120000	264000	10500	368	914	71	50	1	2
MLS642X-H-A	180000	396000	11100	389	1070	71	65	1	2
MLS648X-H-A	240000	529000	12000	420	1220	71	75	1	2
MLS660X-H-A	360000	792000	16500	582	1500	71	65	1	2

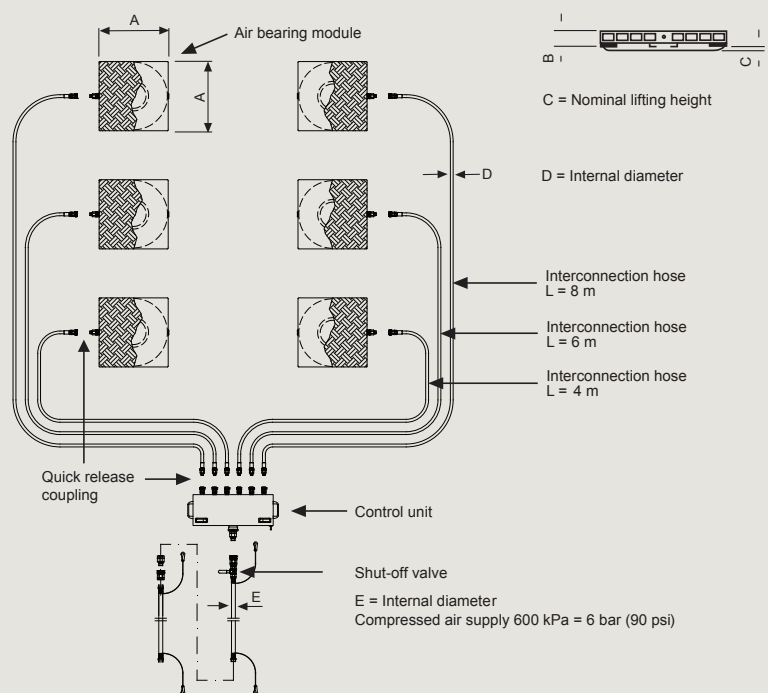
1) 'A' refers to standard plastic support bars under the control unit, other options under 'Optional' below. 2) The modules must be placed under the load so that each one sees no more than one quarter of the full system capacity. 3) These figures refer to good floor conditions, i.e. power-trowelled and 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



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