

Air Chain Hoists

Ingersoll Rand air hoists have been providing lifting solutions to industries around the globe since the early 1900's.

Today, we offer the broadest range of air operated chain hoists in the world up to 100 t capacity.

Our range includes hoists for high-speed production applications and for the harsh environments found in mines, shipyards, power plants, cement plants, refineries and onshore and offshore platforms.

We pride ourselves in our willingness and ability to take on tough applications with engineered special products.



CLK & MLK Series Air Chain Hoists

125 - 1000 kg Load Capacity

CLK Series

The CLK Series air chain hoist has been designed and engineered for production applications for loads up to 500 kg. Incredible durability with an ASME HST-5 rating of A5 (FEM/ISO mechanism classification of 1Am/M4) the CLK Series hoist are duty-rated to go 800 full-load hours between overhauls.

Features

- Meets ASME B30.16 specifications.
- Rugged, lightweight and compact design.
- Disc brake is non-asbestos and spring engaged with air release.
- Quiet operation <75 dBA sound levels.
- Upper and lower limit stops prevent dangerous over-travel of the hook.
- Full flow pendent for maximum control and enhanced load positioning.
- 100% duty cycle multi-vane (6) air motor.
- Hook or trolley mounted versions available.
- Steel snap hooks with safety latches.
- Standard lift is 10 feet; additional lifts are available.
- Standard pendent length is 6 feet or 4 feet less than lift.



CL500K-2C10-C6U-E

CLK & MLK

MLK Series

Serving industry for over 25 years, the rugged and reliable MLK Series hoists are ideal for high production cycle operations. Spark resistant models are also available. MLK Series come with a wide range of options and accessories.

Features

- Meets ASME B30.16 specifications
- 100% duty cycle.
- These hoist are ideal for the harsh environments found in steel mills, foundries and electroplating operations. These are also ideal for high duty cycle applications.
- Pull chain or pilot pendent controls provide precise spotting capabilities.
- Self adjusting, air operated disc brake is spring applied and air released. Wear tested to over one million cycles before replacement.
- All rotating parts are supported by either ball or roller type bearings. Unique planetary gearing system assures long life.
- Thoughtful design includes parts interchangeability, inlet swivels, exhaust air chain lubrication, control adjustment screws and easy conversion from pull chain to pendent control.
- Spark resistant models and a wide range of options and accessories are available.



ML500K-2C10-C6-E



CLK and MLK Series are particularly suitable for use in potentially explosive atmospheres. In their standard design, they are classified as equipment category 3 for applications in zone 2 as per ATEX 94/9/CE Directive (ATEX marking Ex II 3 GD c IIB 135°C X). **MLK Series are also available in spark resistant, version for use in explosive atmospheres zone 1 (ATEX marking Ex II 2 GD c IIB 135°C X).**

CLK & MLK Series Air Chain Hoists

125 - 1000 kg Load Capacity

Specifications / Hook-mount configuration

Specifications at 6.3 bar dynamic pressure (when hoist is running) – Working pressure 5 to 7 bar.

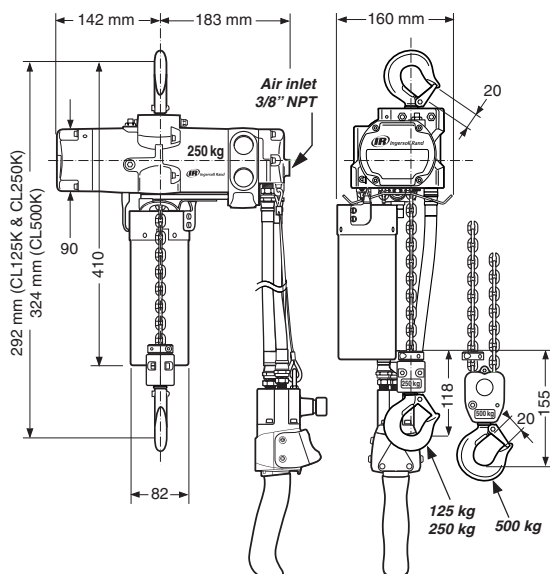
Model number	Rated capacity (kg)	Falls of load chain	Min. headroom (mm)	Lifting speed at rated load (m/min)	Lifting speed at no load (m/min)	Lowering speed at rated load (m/min)	Air cons. at rated load (m ³ /min)	Sound pressure (1) (dbA)	Hoist weight (2) (kg)	Chain size (mm)	Chain weight/1m extra lift (kg)
CLK Series - Hook-mount configuration											
CL125K	125	1	292	13.1	17.1	11.3	0.9	75	15.4	4x12	0.36
CL250K	250	1	292	9.8	17.1	13.7	0.9	75	15.4	4x12	0.36
CL500K	500	2	324	4.6	7.9	6.7	0.9	75	17.2	4x12	0.72
MLK Standard Series / Hook-mount configuration											
ML250K	250	1	457	30.8	52.1	35.7	2.1	89	21.8	6.4x19.5	1.0
ML500K	500	1	457	16.8	32.3	29.6	2.1	89	21.8	6.4x19.5	1.0
ML1000K	1000	2	457	8.5	16.2	14.9	2.1	89	27.7	6.4x19.5	2.0
MLK for explosive atmosphere zone 1 (as per ATEX Ex II 2 GD c IIB 135°C X) / Hook-mount configuration											
ML250KR	250	1	457	7.9	12.8	11.6	2.1	89	28.1	6.4x19.5	1.0
ML500KR	500	2	457	4.0	6.4	6.1	2.1	89	28.1	6.4x19.5	2.0

Additional specifications for MLK Series in trolley-mount configuration

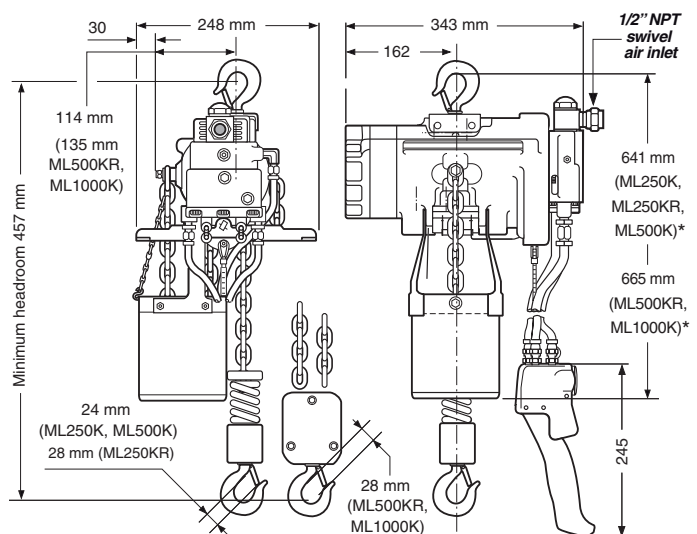
Model number	Rated capacity (kg)	Trolley + Hoist min. headroom (mm)	Trolley flange adjustment (mm)	Min. inside curve radius (m)	Travelling speed at rated load (m/min)	Trolley air cons. at rated load (m ³ /min)	Weight (hoist + trolley) (kg) (2)
MLK Series with RT010 plain trolley (3)							
ML250K(R)...DA	250	457	68 - 152	1.0	–	–	34.5
ML500K(R)...DA	500	457	68 - 152	1.0	–	–	34.5
ML1000K(R)...DA	1000	457	68 - 152	1.0	–	–	40.4
MLK Series with RT010 motorised trolley							
ML250K(R)...HA	250	457	68 - 152	1.0	29	1	37.7
ML500K(R)...HA	500	457	68 - 152	1.0	29	1	37.7
ML1000K...HA	1000	457	68 - 152	1.0	28	1	43.6
MLK Series with TIR6600 motorised trolley for wide beam							
ML250K(R)...HD	250	442	152 - 305	1.1	29	1	37.9
ML500K(R)...HD	500	442	152 - 305	1.1	28	1	37.9
ML1000K...HD	1000	442	152 - 305	1.1	27	1	43.8

(1) Sound pressure levels are measured per European standard EN 14492-2 — (2) Weight with standard height of lift (3 m) and standard length of control (2 m).
 (3) Also available with hand chain control on request.

CLK Series - Hook-mount configuration



MLK Series - Hook-mount configuration

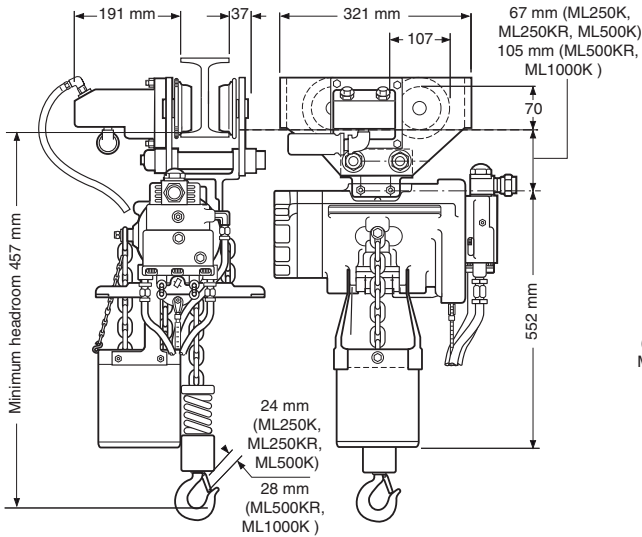


* Dimension for a 14 m capacity fabric chain bucket (1 fall). For a 24 m capacity metallic chain bucket (1 fall), add 153 mm.

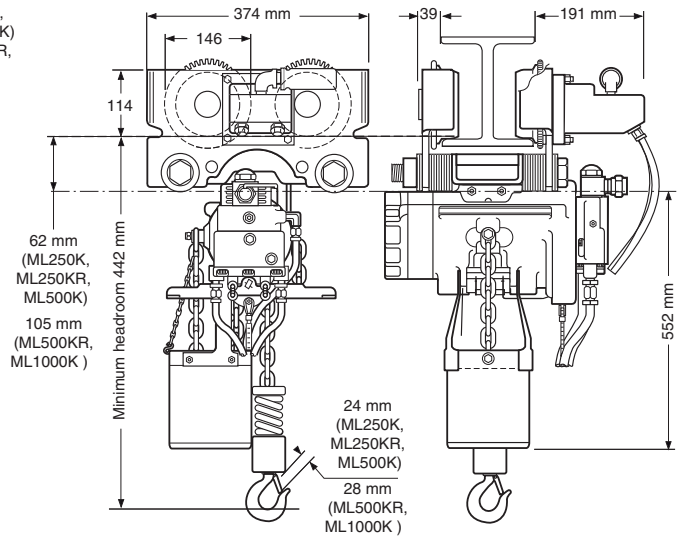
CLK & MLK Series Air Chain Hoists

125 - 1000 kg Load Capacity

MLK Series in standard trolley mount configuration with RT010 trolley – Plain (DA) or motorised (HA)



MLK Series in trolley mount configuration for wide beam – TIR6600 trolley / motorised only (HD)



Ordering menu

CLK hoists are delivered as standard in compliance with the European machinery directive 2006/42/EC and the European standard for Power Driven Hoists EN 14492-2. They include as standard a main air emergency stop and a chain bucket. For CLK under manual trolley, see separated trolleys on page 66.

CL250K - 2 C 10 - C6 U - E

Series / load capacity	Control type	Suspension	Lift in ft	Control length in ft ⁽⁴⁾	Standard equipment
CL125K 125 kg	2 Full flow pendent control	A Fixed lug (Rigid mounting part for RT010A trolley) C Top hook	10 Standard 10 feet (3 m)	C6 6 feet (1.8 m)	U Chain bucket, 40 ft of lift capacity for CL125K and CL250K, 20 ft of lift capacity for CL500K -E Compliance with the European machinery directive (includes emergency stop as standard)
CL250K 250 kg			15 Standard 15 feet (4.5 m)	C13 13 feet (4 m)	
CL500K 500 kg			20 Standard 20 feet (6 m)	C18 18 feet (5.5 m)	
			XX Above 20 ft, specify height of lift in feet (200 ft max. for CL125K & 250, 100 ft max. for CL500K)	CXX Specify length of control in feet (40 ft / 12 m max. pendent hose length),	

(4) In order to reduce the control response time, quick exhaust valves are required from 19 ft (5.8 m) of pendent hose length. Valves need to be evenly spaced between pendent handle and hoist on "up" and "down" hoses. From 19 ft to 30 ft (5.8 to 9 m), 1 valve per hose is required — From 30 ft to 40 ft (9 to 12 m), 2 valves per hose are required. Valve part no. **MR-939-6**

MLK CE marked models are compliant with the European machinery directive 2006/42/EC and the European standard for power driven hoists EN 14492-2. They include as standard a main air emergency stop (not required with pull cord control). For hoists with trolley, also specify beam size, type and flange width.

ML500K - 3 HA 10 - C6 U - E

Series / load capacity	Control type	Suspension	Lift in ft	Control length in ft	Options
Standard Series	1 Cord control (not available for hoist under motorised trolley) 2 PHS pendent 3 Two motor PHS Pendent (for hoist & trolley)	C Swivel top hook (not for spark resistant model) DA Plain rigid universal trolley HA Vane motor driven universal trolley HD Vane motor driven universal trolley for wide beam R Bronze hook (only for spark resistant model)	10 Standard 10 feet (3 m)	CX Specify length of control in feet, for standard models, e.g. C6 = 6 ft (1.8 metre)	S Chain container steel, 24 m capacity (1 fall) U Chain container fabric, 14 m capacity (1 fall)
ML250K 250kg ML500K 500kg ML1000K 980kg			XX Specify height of lift in feet, e.g. 10 = 10 ft (3 metre)		
Spark Resistant Series ⁽⁵⁾ ML250KR 250kg ML500KR 500kg				-E Compliance with the European machinery directive ⁽⁶⁾	

(5) Spark Resistant Series include top and bottom hooks in bronze and stainless steel load chain. In addition, copper plated trolley wheels when fitted with trolley.

(6) There is no need to select "-E" when the hoist is fitted with cord control.

Liftchain® Series Air Chain Hoists

1.5 - 100 t Load Capacity

The Liftchain® LC2A Series is the result of a long experience in heavy load lifting applications in the most difficult and extreme environments around the world. Setting new standards for safety and reliability, the LC2A Series is intended for tough industrial applications on offshore oil rigs, shipyards, petrochemical, refineries, foundries, steels mills, mining, tunneling, etc...

Features

- Rugged, compact design & light weight with all steel construction for better durability.
- Particularly adapted for difficult environments – Insensitive to dust and humidity. 100% duty cycle.
- Exclusive gear type air motor with better ability than other motors to accept contaminated air. High starting torque ensuring good spotting capability.
- Virtually maintenance free and reduced downtimes.
- Automatic multi disc brake, fully enclosed for better protection and corrosion resistance. Maintenance free, no adjustment required. Low pressure brake with self cleaning "venturi effect".
- Precision control with infinitely variable speed through pilot pendent or pull chain control.
- Overload protection device delivered as standard on CE marked versions, optional on Non-CE versions.
- Main air emergency stop as standard on CE marked versions, optional on Non-CE versions.
- Upper and lower limit switches, integrated in the hoist body for better protection. Allows the hoist to be also used in horizontal position. No adjustment required.
- Calibrated load chain, grade 80. Corrosion resistant treated for better protection and longer life. 5:1 design factor for safety and durability.
- Improved exhaust muffler. Low noise level. Easy cleaning and easy replacement.
- Meets worldwide standards: European standards FEM9.511 and FEM 1001 for lifting. U.S. standard ASME/ANSI B30.16. Duty rating FEM 1Bm / ISO M3.
- Several types of configuration are available: hook-mount, trolley-mount versions, low headroom versions for use in restricted spaces, and mining versions fitted with specific equipment.



LC2A250QIP3VE



CE marked models are compliant with the latest European machinery directive N° 2006/42/EC and the European standard for power driven winches EN 14492-2.

These models include as standard the following safety features: Built-in overload protection device — Emergency stop at pendent and built-in main air shut-off as per EN 418 — CE declaration of conformity.



LIFTCHAIN® air hoists are particularly suitable for use in potentially explosive atmospheres, unlike electric hoists. In their standard design, they are classified as equipment category 3 for applications in zone 2 as per ATEX 94/9/CE Directive (ATEX marking **Ex II 3 GD c IIB 135°C X**). For more hazardous areas such as zone 1, they are offered with a special spark resistant package (ATEX marking **Ex II 2 GD c IIB 135°C X**). Special mining models are classified as equipment category M2. ATEX marking **EX IM 2 CX**.

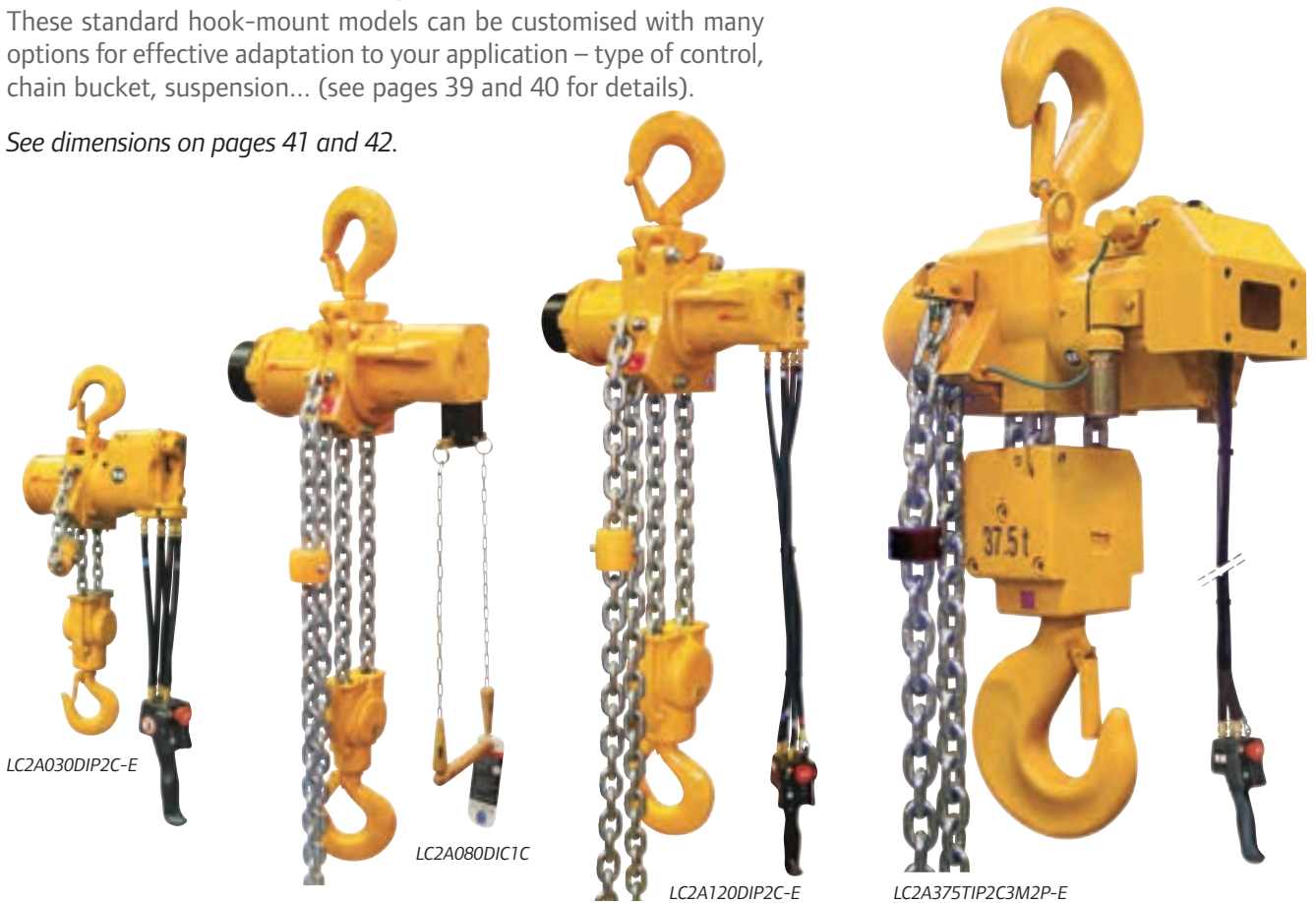
Liftchain® Series Air Chain Hoists

1.5 - 100 t Load Capacity

Hook-Mount Configuration

These standard hook-mount models can be customised with many options for effective adaptation to your application – type of control, chain bucket, suspension... (see pages 39 and 40 for details).

See dimensions on pages 41 and 42.



Specifications at 6.3 bar dynamic pressure (when hoist is running) — Working pressure 5 to 7 bar.
As per European standard EN range 14492-2 – Group of mechanism as per FEM 1Bm / ISO M3.

Model number	Rated capacity (t)	Falls of load chain	Min. headroom (mm)	Lifting speed at rated load (m/min)	Lifting speed at no load (m/min)	Lowering speed at rated load (m/min)	Air cons. at rated load (m ³ /min)	Sound level (1) (dB(A))	Hoist weight (2) (kg)	Chain size (mm)	Chain weight/ 1m extra lift (kg)
LC2A Standard Series – Hook-mount											
LC2A015SI	1.5	1	409	6.2	11.0	8.5	4.0	78	38	8x24	1.5
LC2A030DI	3.0	2	549	3.0	5.5	4	4.0	78	48	8x24	3.0
LC2A040SI	4.0	1	580	3.9	7.0	4.5	4.5	76	90	13x36	3.8
LC2A060QI	6.0	4	653	1.5	2.5	2.0	4.0	78	74	8x24	6.0
LC2A060SI	6.0	1	717	2.2	3.6	2.7	5.2	79	125	16x45	5.7
LC2A080DI	8.0	2	807	1.8	3.5	2.2	4.4	76	118	13x36	7.6
LC2A120DI	12.0	2	945	1.1	1.8	1.3	5.0	79	170	16x45	11.4
LC2A125SI	12.5	1	865	3.2	6.0	5.0	10	93	395	22x66	10.7
LC2A180TI	18.0	3	1063	0.7	1.2	0.9	5.0	79	277	16x45	17.1
LC2A250QI	25.0	4	1156	0.5	0.9	0.6	5.0	79	324	16x45	23.0
LC2A250DI	25.0	2	1235	1.6	3.0	2.5	10	93	558	22x66	21.4
LC2A375TI	37.5	3	1484	1.1	2.0	2.0	10	93	855	22x66	32.1
LC2A500QI	50.0	4	1590	0.8	1.5	1.5	10	93	965	22x66	42.8
LCA750TI	75.0	3	2338	0.4	0.7	0.7	10	93	1700	32x90	73.5
LCA1000QI	100	4	2455	0.3	0.5	0.5	10	93	2200	32x90	98.0

(1) Sound pressure levels are measured per European standard EN 14492-2

(2) Weight with standard height of lift (3 m) and standard length of control (2 m).

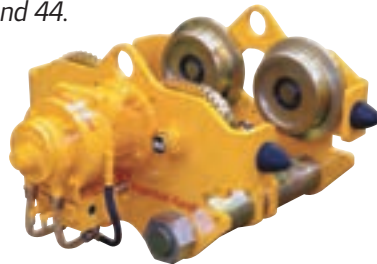
Liftchain® Series Air Chain Hoists

1.5 - 100 t Load Capacity

Trolley-Mount Configuration

These standard trolley-mount models can be customised with many options for effective adaptation to your application (type of control, chain bucket, suspension...).

See dimensions on pages 43 and 44.



12 t motorised trolley sub-assembly



LC2A375TIP3RN

Specifications

THE SPECIFICATIONS HEREUNDER CORRESPOND TO THE TROLLEYS. FOR THE LIFTING SPECIFICATIONS, PLEASE REFER TO THE CORRESPONDING HOIST ON THE PREVIOUS PAGE.

Specifications at 6.3 bar dynamic pressure (when hoist is running). Working pressure 5 to 7 bar.

As per European standard EN range 14492-2 – Group of mechanism as per FEM 1Bm/ISO M3.

Model number	Rated capacity (t)	Trolley + Hoist min. headroom (mm)	Trolley flange adjustment (mm)	Min. inside curve radius (m)	Travelling speed at rated load ⁽¹⁾ (m/min)	Trolley air cons. at rated load (m ³ /min)	Weight (hoist + trolley) (kg) ⁽²⁾
LC2A Standard Series with MANUAL TROLLEY (plain or geared trolley)							
LC2A015SI	1.5	480	80 - 200	2	–	–	86 (92)
LC2A030DI	3.0	592	80 - 200	2	–	–	98 (100)
LC2A040SI	4.0	590	80 - 200	2	–	–	140 (142)
LC2A060QI	6.0	702	100 - 310	3	–	–	200 (207)
LC2A060SI	6.0	730	100 - 310	3	–	–	250 (257)
LC2A080DI	8.0	815	100 - 310	3	–	–	243 (250)
LC2A120DI	12.0	995	130 - 310	3	–	–	335 (343)
LC2A180TI	18.0	1195	140 - 310	5	–	–	652 (660)
LC2A250QI	25.0	1240	140 - 310	5	–	–	700 (708)
LC2A Standard Series with MOTORISED TROLLEY							
LC2A015SI	1.5	480	80 - 200	2	21	1.3	95
LC2A030DI	3.0	592	80 - 200	2	17	1.3	103
LC2A040SI	4.0	590	80 - 200	2	15	1.3	145
LC2A060QI	6.0	702	100 - 310	3	15	1.3	217
LC2A060SI	6.0	730	100 - 310	3	15	1.3	267
LC2A080DI	8.0	815	100 - 310	3	12	1.3	260
LC2A120DI	12.0	995	130 - 310	3	12	1.5	352
LC2A125SI	12.5	1000	160 - 310	3	15	1.5	570
LC2A180TI	18.0	1195	140 - 310	5	15	1.9	652
LC2A250QI	25.0	1240	140 - 310	5	15	1.9	700
LC2A250DI	25.0	990	160 - 310	50	12	1.5 x 2	935
LC2A375TI	37.5	1134	160 - 310	90	15	1.9 x 2	1585
LC2A500QI	50.0	1182	160 - 310	90	15	1.9 x 2	1735
LCA750TI	75.0	1845	300 - 310	130	15	1.9 x 4	4500
LCA1000QI	100	1901	300 - 310	130	15	1.9 x 4	4700

(1) In Rack & Pinion configuration, the trolley speed is divided by two.

(2) Weight with standard height of lift (3 m) and standard length of control (2 m) – Figure between brackets correspond to geared trolleys

Liftchain® Series Air Chain Hoists

1.5 - 100 t Load Capacity

Low-Headroom Configuration

This particular trolley hoist arrangement is offering more room to lift the load compared to a standard trolley mount version, thus ideally suited for applications where space is particularly restricted.



LC2A250QIP3LVE3M2A-E.

Specifications at 6.3 bar dynamic pressure (when hoist is running) — Working pressure 5 to 7 bar.
As per European standard EN range 14492-2 – Group of mechanism as per FEM 1Bm / ISO M3.

Model number	Rated capacity (t)	Falls of load chain	Min. headroom (mm)	Lifting speed at rated load (m/min)	Lifting speed at no load (m/min)	Lowering speed at rated load (m/min)	Travelling speed at rated load (1) (m/min)	Trolley flange adjustment (mm)	Min. inside curve radius (m)
LC2A Low Headroom Series									
LC2A015SIP3L	1.5	1	275	3.9	7.4	6.4	17	81 - 310	10
LC2A030DIP3L	3.0	2	386	1.9	3.7	3.2	17	81 - 310	10
LC2A060QIP3L	6.0	4	465	1.5	2.5	2.0	15	120 - 310	10
LC2A060SIP3L	6.0	1	475	2.2	3.6	2.7	15	140 - 310	10
LC2A080DIP3L	8.0	2	590	1.8	3.5	2.2	12	120 - 310	10
LC2A120DIP3L	12.0	2	670	1.1	1.8	1.3	12	140 - 310	10
LC2A180TIP3L	18.0	3	730	0.7	1.2	0.9	12	210 - 310	10
LC2A250QIP3L	25.0	4	775	0.5	0.9	0.6	12	160 - 310	10

Model number	Air consumption at rated load:		Sound level/ lifting (2)	Total weight (3)	Chain size (mm)	Chain weight/ 1m extra lift (kg)
	Lifting (m ³ /min)	Travelling (m ³ /min)	(dbA)	(kg)		
LC2A015SI3L	2.1	1.3	78	120	8x24	1.4
LC2A030DI3L	2.1	1.3	78	130	8x24	2.8
LC2A060QIP3L	4	1.3	78	250	8x24	6.0
LC2A060SIP3L	5	1.3	79	500	16x45	5.7
LC2A080DIP3L	5	1.9	76	300	13x36	7.6
LC2A120DIP3L	5	1.9	79	540	16x45	11.4
LC2A180TIP3L	5	1.9	79	690	16x45	17.1
LC2A250QIP3L	5	1.9	79	740	16x45	22.8

See dimensions on page 45.

(1) In Rack & Pinion configuration, the trolley speed is divided by 2.

(2) Sound pressure levels are measured per European standard EN 14492-2

(3) Weight of low headroom hoist / trolley with standard height of lift (3 m) and standard length of control (2 m).

Liftchain® Series Air Chain Hoists

1.5 - 100 t Load Capacity

"Miner" Series

The Mining models are designed for the heavy duty conditions found in the underground mining and tunneling industries.

Their construction is based on the standard LC2A models.

Main differences compared to the standard LC2A models:

- Suitable to operate at 4 bar.
- Top hook mounted on chain links for increased flexibility. 1 extra bottom hook (optional) for alternate pulling operation.
- Top and bottom limit switches through resistant buffer stops which comes against the hoist central part.
- Cast iron pendent control.

LC2A080DSMP2C



Specifications at 4 and 6.3 bar dynamic pressure (when hoist is running) — Working pressure 4 to 7 bar.

As per European standard EN range 14492-2 – Group of mechanism as per FEM 1Bm / ISO M3.

Model number	Number of load hooks	Rated capacity on each hook (t)	Min. headroom (mm)	PERFORMANCES AT 4 BAR (58 PSI)			PERFORMANCES AT 6.3 bar (90 PSI)		
				Pulling speed at rated load (m/min)	Speed no load (m/min)	Air cons. at rated load (m ³ /min)	Pulling speed at rated load (m/min)	Speed no load (m/min)	Air cons. at rated load (m ³ /min)
LC2A Mining Series									
LC2A015SM	1	1.5 (simple hook)	608	3.2	9	2.2	6.2	11	4.0
LC2A015SSM	2	1.5 (simple hook) 1.5 (simple hook)	608 608	3.2 3.2	9 9	2.2	6.2 6.2	11 11	4.0
LC2A030DM	1	3 (double hook)	675	1.5	4.5	2.2	3	5.5	4.0
LC2A030DSM	2	1.5 (simple hook) 3 (double hook)	608 675	3.2 1.5	9 4.5	2.2	6.2 3	11 5.5	4.0
LC2A040SM	1	4 (simple hook)	757	1.7	4	3.0	3.9	7	4.5
LC2A040SSM	2	4 (simple hook) 4 (simple hook)	757 757	1.7 1.7	4 4	3.0	3.9 3.9	7 7	4.5
LC2A060SM	1	6 (simple hook)	952	1.4	2	2.5	2.2	3.6	5.2
LC2A060SSM	2	6 (simple hook) 6 (simple hook)	952 952	1.4 1.4	2 2	2.5	2.2 2.2	3.6 3.6	5.2
LC2A080DM	1	8 (double hook)	940	0.9	2	3.0	1.8	3.5	4.5
LC2A080DSM	2	4 (simple hook) 8 (double hook)	757 940	1.7 0.9	4 2	3.0	3.9 1.8	7 3.5	4.5
LC2A120DM	1	12 (double hook)	1148	0.7	1	2.5	1.1	1.8	5.2
LC2A120DSM	2	6 (simple hook) 12 (double hook)	952 1148	1.4 0.7	2 1	2.5	2.2 1.1	3.6 1.8	5.2

Model number	Sound level (1) (dB(A))	Hoist weight (2) (kg)	Chain size (mm)	Chain weight/1m extra lift (kg)
LC2A015SM	79	41	8 x 24	1.4
LC2A015SSM	79	42	8 x 24	1.4
LC2A030DM	79	48	8 x 24	2.8
LC2A030DSM	79	50	8 x 24	2.8
LC2A040SM	76	90	13 x 36	3.8
LC2A040SSM	76	92	13 x 36	3.8
LC2A060SM	79	125	16 x 45	5.7
LC2A060SSM	79	127	16 x 45	5.7
LC2A080DM	76	118	13 x 36	7.6
LC2A080DSM	76	120	13 x 36	7.6
LC2A120DM	79	171	16 x 45	11.4
LC2A120DSM	79	179	16 x 45	11.4

(1) Sound pressure levels are measured per European standard EN 14492-2

(2) Weight measured with standard height of lift (3 m) and standard length of control (2 m).

Note: It is strongly recommended to use a lubricating and a filtration system on the compressed airline. The compressed air temperature must not exceed 65°C at the motor air inlet.

For higher temperature, please consult us.

See dimensions on page 46.

Liftchain® Series Air Chain Hoists

1.5 - 100 t Load Capacity

LIFTCHAIN® Air Chain Hoists Main Options



Spark resistant package, option T1, for ATEX zone 1

A special spark resistant package is available for products used in potentially explosive areas classified as ATEX zone 1.

Products ordered with this option will have the ATEX marking EX II 2 GD c IIB 135°C.

The package includes the following features:

For the hoist:

- Cast iron pendent.
- Bronze coated bottom hook assembly.

For the trolley:

- Solid bronze wheels.
- Pinion drive in solid bronze or stainless steel.
- Cast iron pendent.
- Bronze coated hand wheel for geared trolley.
- Brass hand chain guide for geared trolley.

Types of suspensions

The Liftchain® Series are scheduled for many configurations, from simple hook or fixed lug, to various types of trolleys (plain, geared or motorised). See the ordering menu on following page for the complete list of suspension types.

Chain containers, option A, B, C or D

Chain containers are a simple and economical way of capturing the load chain and preventing it from interfering with the load, hoist control cords, or other objects. They are available in canvas or in zinc plated steel according to their chain capacity.



Airline accessories, options J1, J2 and J3

A good air quality is a key factor for the longevity and the proper functioning of your air hoists. Optional airline accessories, such as Filter, Regulator and Lubricator, specially adapted to our LC2A hoists, are available on request.



Rack & pinion option

Rack & pinion drive are usually used on floating installations or vessels. This positive drive design keeps the hoist trolley in position in the event of heavy swell (no sliding on the beam). It also allows precise travel positioning when operating.



Liftchain® Series Air Chain Hoists

1.5 - 100 t Load Capacity

LIFTCHAIN® Series Ordering Menu

To order your hoist, specify complete model number code as shown below. For hoists with trolley, specify beam size, type and flange width. Note that 0 (zero) is a number, not a letter in model part numbers.

LC2A in CE version are fitted as standard with built-in overload protection and emergency stop button on pendent and built-in main air shut-off valve.

LC2A Series from 1.5 to 25 t capacity

Series	Load capacity	Range	Control	Suspension	Lift & Control	Options
LC2A LIFTCHAIN AIR SERIES, 2nd Generation	015S 1.5 t, single fall 030D 3 t, double falls 040S 4 t, single fall 060S 6 t, single fall 060Q 6 t, quadruple falls 080D 8 t, double falls 120D 12 t, double falls 180t 18 t, triple falls 250Q 25 t, quadruple falls <i>For mining models with 2 load hooks, add the letter "S", e.g. LC2A030DS (valid up to 12 t capacity).</i>	I Standard Industrial M Mining (up to 12 t capacity)	C1 Pull Chain (not available for Mining range) P2 1 motor pendent P3 2 motor pendent (for hoist with motorised trolley)	A Fixed lug C Swivel top hook PU Plain rigid universal trolley (flat or tapered beam) 1,5 to 8 t. PE Plain rigid trolley (flat beam) 12 to 25 t. PN Plain rigid trolley (tapered beam) 12 to 25 t. GU Geared rigid universal trolley (flat or tapered beam) 1,5 to 8 t. GE Geared rigid trolley (flat beam) 12 t only. GN Geared rigid trolley (tapered beam) 12 t only. VU* Vane motorised rigid universal trolley (flat or tapered beam) 1,5 to 8 t. VE* Vane motorised rigid trolley (flat beam) 12 to 25 t. VN* Vane motorised rigid trolley (tapered beam) 12 to 25 t. RU* Gear motorised rigid universal trolley (flat or tapered beam) 6 and 8 t. RE* Gear motorised rigid trolley (flat beam) 12 to 25 t. RN* Gear motorised rigid trolley (tapered beam) 12 to 25 t. * Add the letter "L" for low headroom trolley (e.g. LVU or LRU) * Add the letter "R" for rack & pinion configuration (e.g. RER). Only available for gear motor trolleys, or for LC2A015SI, LC2A030DI, LC2A040SI with vane motor.	3M2 Standard: 3 m height of lift and 2 m of control XXM Specify heights in meters	A Standard chain bucket. B Large chain bucket. C Extra large chain bucket. D XXL chain bucket. J Airline accessories (1) Specify J1: Filter, J2: Lubricator J3: Regulator or numerical combination. K Cast iron pendent. LM Low temperature design (-20°C DNV). Includes 3.1 material traceability certificates. M Material traceability certificate as per EN 10204 3.1 on main load bearing part. P Marine paint 150µ. QZ Offshore paint 290µ including sandblasting. T1 Spark resistance (2) package (ATEX zone 1) W Witness test. Specify W1 for ABS or W2 for DNV or W3 for LRS or W4 for client witness of load test. -E Compliance with the European machinery directive.

(1) For protection during shipment and due to the wide range of installation variables, the airline accessories are shipped loose for client installation.

(2) Option T1 includes the following:

For the hoist: Cast iron pendent and bronze coated bottom hook assembly

For the trolley: Solid bronze wheels (all trolleys).

In addition for motorised trolleys, pinion drive in solid bronze or stainless steel and cast iron pendent.

In addition for geared trolleys, bronze coated hand wheel with brass hand chain guide.

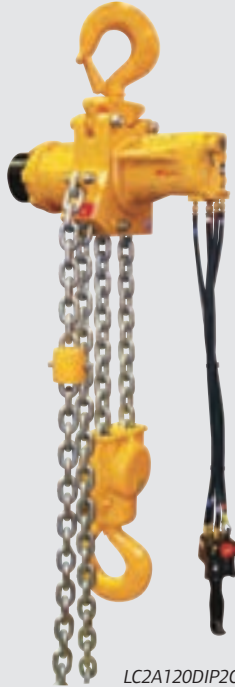
LC2A Series from 12.5 to 100 t capacity

Series	Load capacity	Control	Suspension	Lift & control	Options
LC2A LIFTCHAIN AIR SERIES from 12.5 to 50 t. LCA LIFTCHAIN AIR SERIES 75 and 100 t.	125SI 12.5 t, single fall 250DI 25 t, double falls 37.5TI 37.5 t, triple falls 500QI 50 t, quadruple falls 750TI 75 t, triple falls 1000QI 100 t, quadruple falls	P2 1 motor pendent P3 2 motor pendent (for hoist with motorised trolley)	C Hook-mount VN* Vane motor + braked trolley for tapered beam (up to 50 t). VE* Vane motor + braked trolley for flat beam. (up to 50 t). RN* Motorised (gear motor) + braked trolley for tapered beam (all models). RE* Motorised (gear motor) + braked trolley for flat beam (all models). * Add the letter "R" for rack & pinion configuration (e.g. RER).	3M2 Standard: 3 m height of lift and 2 m of control XXM Specify heights in meters	A Standard chain bucket. B Large chain bucket. J Airline Accessories (1) – Specify J1: Filter, J2: Lubricator, J3: Regulator or numerical combination. K Cast iron pendent. LM Low temperature design (-20°C DNV). Includes 3.1 material traceability certificates. M Material traceability certificate as per EN 10204 3.1 on main load bearing part. P Marine paint 150µ. QZ Offshore paint 290µ including sandblasting. T1 Spark resistance (2) package (ATEX zone 1). W Witness test. Specify W1 for ABS or W2 for DNV or W3 for LRS or W4 for client witness of load test. -E Compliance with the European machinery directive.

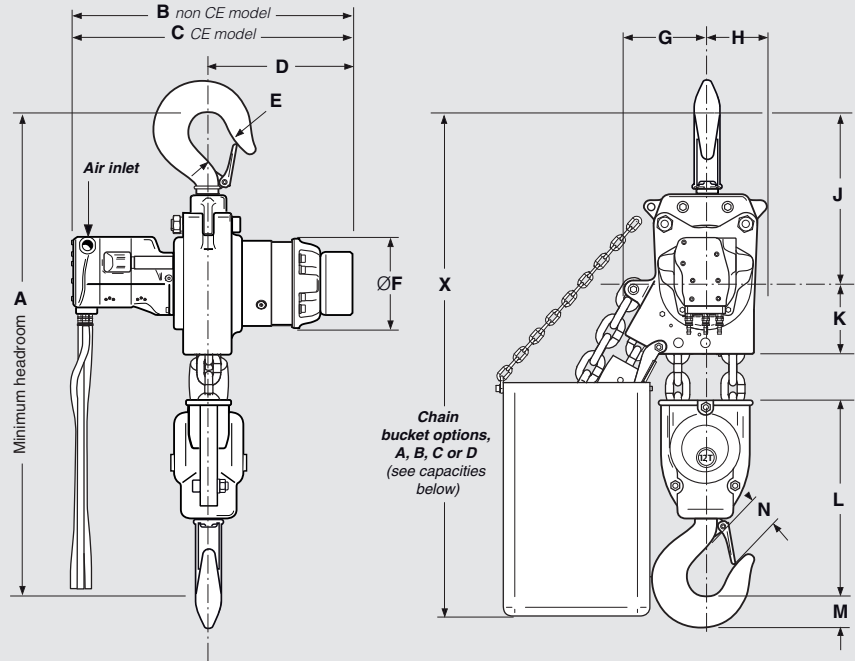
Liftchain® Series Air Chain Hoists

1.5 - 100t Load Capacity

Hook-Mount Models – 1.5 to 25 t capacity (except model 25t double falls)



LC2A120DIP2C3M2-E



Dimensions are subject to change without notice. Please contact Client Services for certified prints.

Hoist dimensions in mm

Model number	A	B	C	D	E	F	G	H	J	K	L	M	N	Air Inlet Ø
LC2A015SI	409	385	410	210	27	137	112	68	173	90	146	30	27	3/4" BSP
LC2A030DI	549	385	410	210	35	137	112	68	202	90	257	37	35	3/4" BSP
LC2A040SI	580	580	606	297	35	192	183	71	264	127	190	37	35	1" BSP
LC2A060QI	653	448	474	236	43	137	112	68	266	90	296	50	43	3/4" BSP
LC2A060SI	717	605	630	310	43	192	233	75	350	139	228	50	43	1" BSP
LC2A080DI	807	580	606	297	53	192	140	115	307	127	373	60	53	1" BSP
LC2A120DI	945	605	630	310	58	192	175	133	370	152	424	67	58	1" BSP
LC2A125SI	865	725	816	265	58	—	276	194	368	226	296	67	58	1 1/4" BSP (1)
LC2A180TI	1063	724	750	386	78	192	195	98	427	152	484	80	78	1" BSP
LC2A250QI	1156	724	750	367	87	192	175	118	474	152	530	96	87	1" BSP

(1) 1 1/2" air inlet with CE package.

Chain bucket capacity and height – A, B, C or D options

Hoist model	Chain bucket, type A			Chain bucket, type B			Chain bucket, type C			Chain bucket, type D		
	Bucket material	Corresponding height of lift capacity (m)	Height "X" (mm)	Bucket material	Corresponding height of lift capacity (m)	Height "X" (mm)	Bucket material	Corresponding height of lift capacity (m)	Height "X" (mm)	Bucket material	Corresponding height of lift capacity (m)	Height "X" (mm)
LC2A015SI	Canvas	12	628	Canvas	30	728	Canvas	60	828	Metal	80	TBA
LC2A030DI	Canvas	6	657	Canvas	15	757	Canvas	30	857	Metal	40	TBA
LC2A040SI	Canvas	12	847	Canvas	25	947	Metal	40	1107	Metal	60	1147
LC2A060QI	Canvas	3	721	Canvas	7.5	821	Canvas	15	921	Metal	20	TBA
LC2A060SI	Canvas	12	1065	Metal	26	1265	Metal	40	1265	Metal	60	1445
LC2A080DI	Canvas	6	890	Canvas	12.5	990	Metal	20	1150	Metal	30	1190
LC2A120DI	Canvas	6	1085	Metal	13	1285	Metal	20	1285	Metal	30	1465
LC2A125SI	Metal	30	475	Metal	60	800	—	—	—	—	—	—
LC2A180TI	Canvas	4	1142	Metal	8.5	1342	Metal	13	1342	Metal	20	1522
LC2A250QI	Canvas	3	1189	Metal	6.5	1389	Metal	10	1389	Metal	15	1569

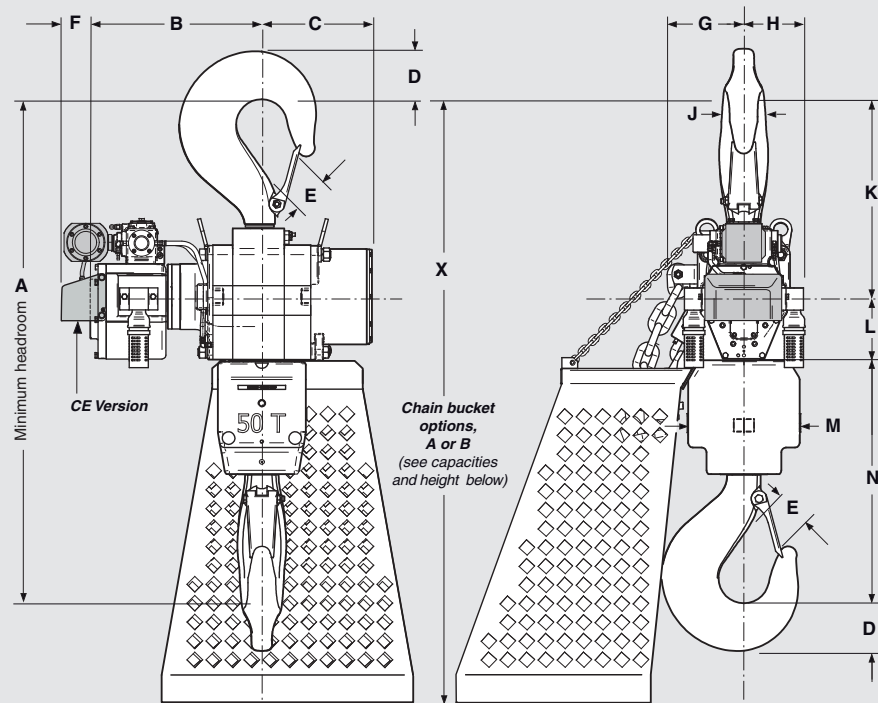
Liftchain® Series Air Chain Hoists

1.5 - 100 t Load Capacity

Hook-Mount Models – 25 to 100 t capacity (except model 25t with 4 falls)



LC2A500QIP2C3M2



Dimensions are subject to change without notice. Please contact Client Services for certified prints.

Hoist dimensions in mm

Model number	A	B	C	D	E	F	G	H	J	K	L	M	N	Air Inlet Ø (1)
LC2A250DI	1235	460	265	94	87	91	276	194	80	459	205	276	572	1 1/4" BSP
LC2A375TI	1484	514	373	132	103	91	229	194	125	565	205	298	714	1 1/4" BSP
LC2A500QI	1590	541	346	150	118	91	229	194	140	622	205	352	763	1 1/4" BSP
LCA750TI	2338	557	718	190	160	75	566	304	180	973	310	420	1055	1 1/4" BSP
LCA1000QI	2455	594	682	250	184	75	566	304	200	1030	314	490	1111	1 1/4" BSP

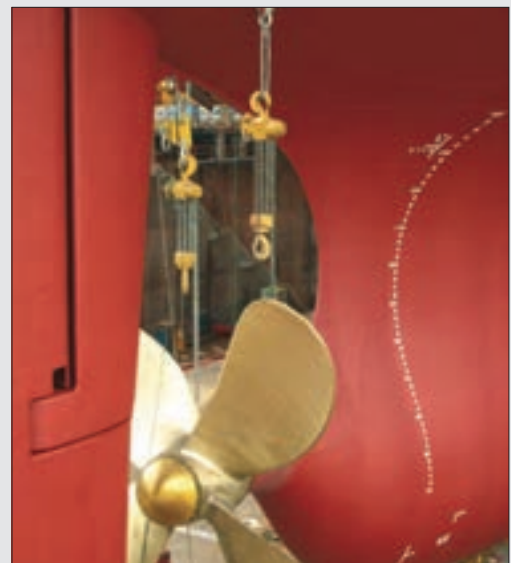
(1) 1 1/2" air inlet with CE package.

Metal Chain bucket (A or B options) – Capacity and height

Hoist model	Chain bucket, type A		Chain bucket, type B	
	Corresponding height of lift (m)	Height "X" (mm)	Corresponding height of lift (m)	Height "X" (mm)
LC2A250DI	15	840	30	1055
LC2A375TI	10	840	20	1055
LC2A500QI	7.5	840	15	1055
LCA750TI	10	2462	20	3052
LCA1000QI	7.5	2462	15	3052

Chain containers are a simple and economical way of capturing the load chain and preventing it from interfering with the load, hoist control hoses, or other objects.

A variety of standard sizes are available and we can provide quotations for containers for longer lifts or where space restrictions may require custom design.



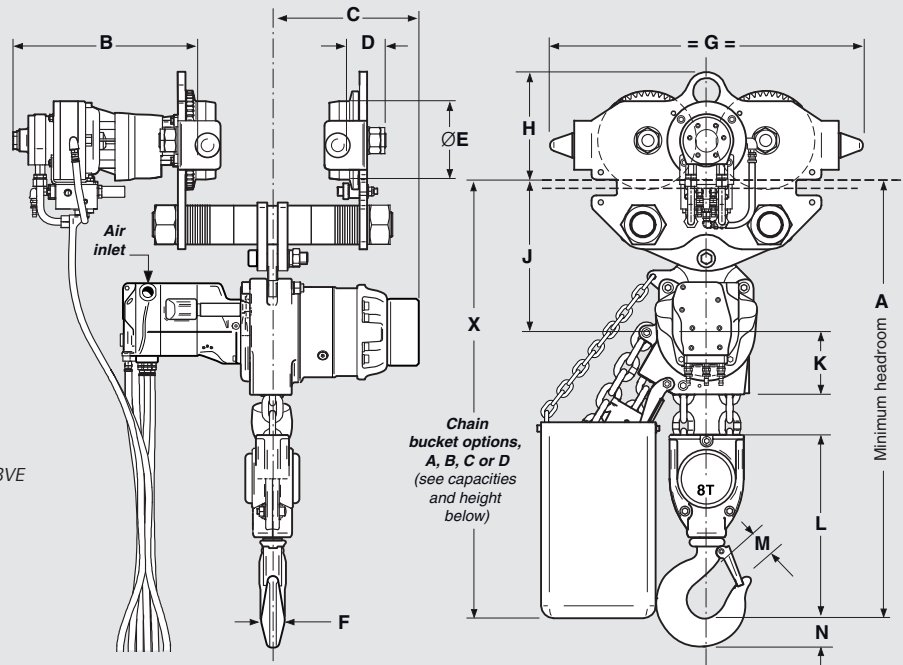
Liftchain® Series Air Chain Hoists

1.5 - 100t Load Capacity

Trolley Mount Models – 1.5 to 25 t capacity (except model 25t double falls)



LC2A250QIP3VE



Dimensions are subject to change without notice. Please contact Client Services for certified prints.

Hoist / Trolley dimensions in mm

Model number	A	B	C	D	E	F	G	H	J	K	L	M	N	Air Inlet Ø
LC2A015SI	480	190	210	60	120	—	436	155	244	90	146	27	30	3/4" BSP
LC2A030DI	592	190	210	60	120	—	436	155	244	90	257	35	37	3/4" BSP
LC2A040SI	590	284	300	60	120	—	436	147	273	127	190	35	37	1" BSP
LC2A060QI	702	290	250	82	160	—	640	220	315	90	296	43	50	3/4" BSP
LC2A060SI	730	290	310	82	160	—	640	220	350	152	228	43	50	1" BSP
LC2A080DI	815	380	300	82	160	—	640	220	313	127	373	53	60	1" BSP
LC2A120DI	995	410	310	91	160	—	622	220	420	152	424	58	67	1" BSP
LC2A125SI	1000	313	265	87	160	57	622	220	498	201	296	58	67	1 1/4" BSP (1)
LC2A180TI	1195	360	390	125	225	—	790	270	558	152	484	78	80	1" BSP
LC2A250QI	1240	360	370	125	225	—	790	270	558	152	530	87	96	1" BSP

(1) 1 1/2" air inlet with CE package.

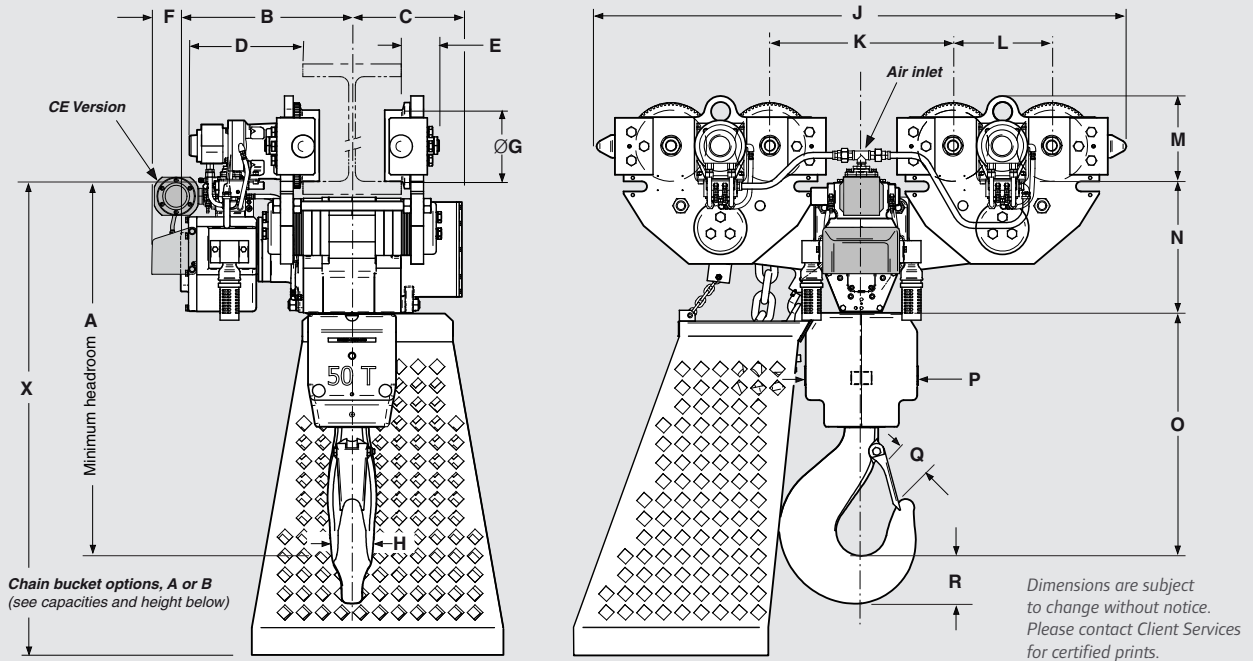
Chain bucket capacity and height – A, B, C or D options

Hoist model	Chain bucket, type A			Chain bucket, type B			Chain bucket, type C			Chain bucket, type D		
	Bucket material	Corresponding height of lift capacity (m)	Height "X" (mm)	Bucket material	Corresponding height of lift capacity (m)	Height "X" (mm)	Bucket material	Corresponding height of lift capacity (m)	Height "X" (mm)	Bucket material	Corresponding height of lift capacity (m)	Height "X" (mm)
LC2A015SI	Canvas	12	700	Canvas	30	800	Canvas	60	900	Metal	80	TBA
LC2A030DI	Canvas	6	712	Canvas	15	812	Canvas	30	912	Metal	40	TBA
LC2A040SI	Canvas	12	856	Canvas	25	956	Metal	40	1116	Metal	60	1156
LC2A060QI	Canvas	3	769	Canvas	7.5	869	Canvas	15	969	Metal	20	TBA
LC2A060SI	Canvas	12	1065	Metal	26	1265	Metal	40	1265	Metal	60	1445
LC2A080DI	Canvas	6	896	Canvas	12.5	996	Metal	20	1156	Metal	30	1196
LC2A120DI	Canvas	6	1135	Metal	13	1335	Metal	20	1335	Metal	30	1515
LC2A125SI	Metal	30	1564	Metal	60	1779	—	—	—	—	—	—
LC2A180TI	Canvas	4	1273	Metal	8.5	1473	Metal	13	1473	Metal	20	1653
LC2A250QI	Canvas	3	1273	Metal	6.5	1473	Metal	10	1473	Metal	15	1653

Liftchain® Series Air Chain Hoists

1.5 - 100 t Load Capacity

Trolley Mount Models – 25 to 100 t capacity (except model 25t with 4 falls)



Hoist / Trolley dimensions in mm

Model number	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	Air Inlet Ø ⁽¹⁾
LC2A250DI	990	460	265	313	87	91	160	84	1362	500	240	220	411	572	276	87	120	1 1/4" BSP
LC2A375TI	1134	514	373	358	121	91	225	125	1672	578	312	270	416	714	298	103	140	1 1/4" BSP
LC2A500QI	1182	541	346	358	121	91	225	140	1672	578	312	270	416	763	352	118	160	1 1/4" BSP
LCA750TI	1880	700	553	550	121	NA	225	150	3370	NA	312	270	790	1055	420	153	190	1 1/4" BSP
LCA1000QI	1936	700	553	550	121	NA	225	150	3370	NA	312	270	790	1111	490	184	250	1 1/4" BSP

(1) 1-1/2" air inlet with CE package.

Metal Chain bucket (A or B options) – Capacity and height

Hoist model	Chain bucket, type A		Chain bucket, type B	
	Corresponding height of lift (m)	Height "X" (mm)	Corresponding height of lift (m)	Height "X" (mm)
LC2A250DI	15	1276	30	1491
LC2A375TI	10	1281	20	1496
LC2A500QI	7.5	1281	15	1496
LCA750TI	10	1980	20	2555
LCA1000QI	7.5	1980	15	2555

Chain containers are a simple and economical way of capturing the load chain and preventing it from interfering with the load, hoist control hoses, or other objects.

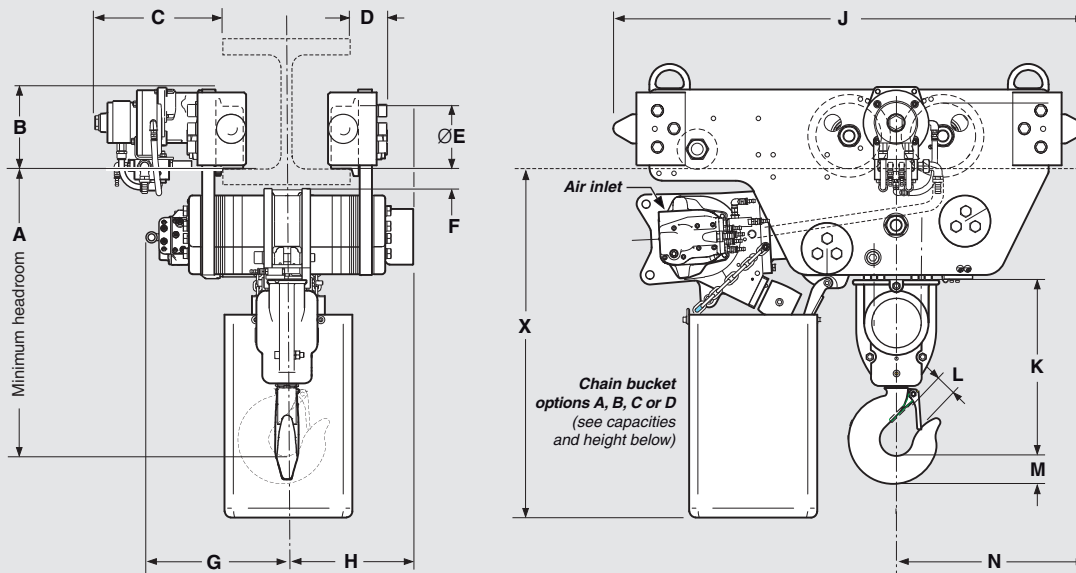
A variety of standard sizes are available and we can provide quotations for containers for longer lifts or where space restrictions may require custom design.



Liftchain® Series Air Chain Hoists

1.5 - 100 t Load Capacity

Low Headroom Models – 1.5 to 25 t capacity



Dimensions are subject to change without notice. Please contact Client Services for certified prints.

Hoist / Trolley dimensions in mm

Model number	A	B	C	D	E	F	G	H	J	K	L	M	N	Air Inlet Ø
LC2A015SIP3L	275	150	171	63	120	30	220	220	694	147	27	30	233	3/4" BSP
LC2A030DIP3L	386	150	171	63	120	30	220	220	694	257	32	37	202	3/4" BSP
LC2A060QIP3L	465	179	283	78	160	50	265	176	1002	288	43	50	366	3/4" BSP
LC2A060SIP3L	475	195	318	101	160	50	348	311	1164	228	43	50	409	1" BSP
LC2A080DIP3L	590	179	283	78	160	50	337	297	1002	383	53	60	366	1" BSP
LC2A120DIP3L	670	195	318	101	160	50	348	311	1164	424	58	67	466	1" BSP
LC2A180TIP3L	730	248	371	120	225	50	272	387	1164	484	78	80	447	1" BSP
LC2A250QIP3L	775	248	371	120	225	50	405	254	1164	530	87	96	466	1" BSP

Chain bucket capacity and height – A, B, C or D options

Hoist model	Chain bucket, type A			Chain bucket, type B			Chain bucket, type C			Chain bucket, type D		
	Bucket material	Corresponding height of lift capacity (m)	Height "X" (mm)	Bucket material	Corresponding height of lift capacity (m)	Height "X" (mm)	Bucket material	Corresponding height of lift capacity (m)	Height "X" (mm)	Bucket material	Corresponding height of lift capacity (m)	Height "X" (mm)
LC2A015SIP3L	Canvas	12	566	Canvas	30	694	—	—	—	—	—	—
LC2A030DIP3L	Canvas	6	566	Canvas	15	694	—	—	—	—	—	—
LC2A060QIP3L	Canvas	3	590	Canvas	8	690	Canvas	15	790	Metal	20	TBA
LC2A060SIP3L	Canvas	12	860	Metal	26	1060	Metal	40	1060	Metal	60	1240
LC2A080DIP3L	Canvas	6	760	Metal	13	860	Metal	20	1060	Metal	30	1240
LC2A120DIP3L	Canvas	6	860	Metal	13	1060	Metal	20	1060	Metal	30	1240
LC2A180TIP3L	Canvas	4	860	Metal	8	1060	Metal	12	1060	Metal	20	1240
LC2A250QIP3L	Canvas	3	860	Metal	6	1060	Metal	10	1060	Metal	15	1240

Ultra-Low Headroom chain hoists up to 100 t capacity (ULBS Series) are available upon request. See description on page 53.

Liftchain® Series Air Chain Hoists

1.5 - 100 t Load Capacity



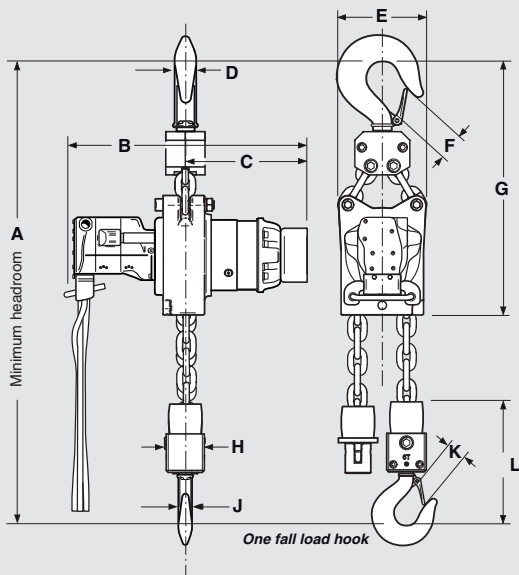
LC2A080DSMP2C

Dimensions are subject to change without notice. Please contact Client Services for certified prints.

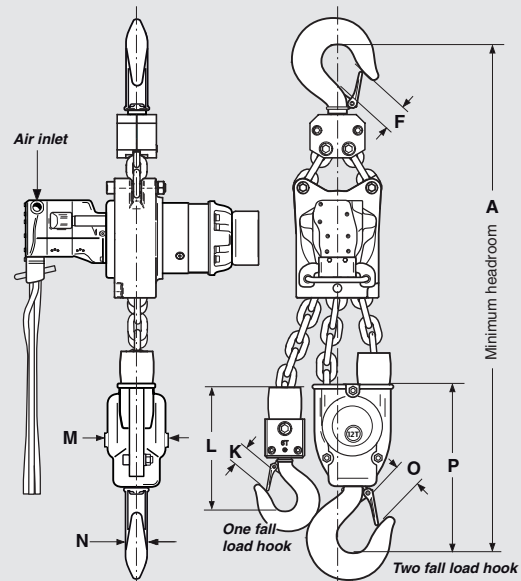
"Miner" Series – 1.5 to 12 t capacity

LC2A015SM LC2A040SM LC2A060SM	LC2A030DM LC2A080DM LC2A120DM	LC2A015SSM LC2A040SSM LC2A060SSM	LC2A030DSM LC2A080DSM LC2A120DSM
1 simple hook	1 hook block	2 simple hooks	1 simple hook and 1 hook block

Dimensions with simple fall load hook



Dimensions with simple and double fall load hooks



Hoist dimensions in mm (CE models)

Model number	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Air Inlet Ø
LC2A015SM	610	418	210	29	154	35	377	62	29	35	233	—	—	—	—	3/4" BSP
LC2A015SSM	610/610	418	210	29	154	35	377	62	29	35	233	—	—	—	—	3/4" BSP
LC2A030DM	685	418	210	29	154	35	377	—	—	—	—	94	29	35	307	3/4" BSP
LC2A030DSM	610/685	418	210	29	154	35	375	62	29	35	233	94	29	35	307	3/4" BSP
LC2A040SM	793	620	306	43	210	53	533	77	29	35	260	—	—	—	—	1" BSP
LC2A040SSM	793/793	620	306	43	210	53	533	77	29	35	260	—	—	—	—	1" BSP
LC2A060SM	964	642	317	52	227	58	644	97	37	43	320	—	—	—	—	1" BSP
LC2A060SSM	964/964	642	317	52	227	58	644	97	37	43	320	—	—	—	—	1" BSP
LC2A080DM	976	620	306	43	210	53	533	—	—	—	—	113	43	53	443	1" BSP
LC2A080DSM	793/976	520	306	43	210	53	533	77	29	35	260	113	43	53	443	1" BSP
LC2A120DM	1160	642	317	52	227	58	644	—	—	—	—	156	52	58	516	1" BSP
LC2A120DSM	952/1160	642	317	52	227	58	644	97	37	43	320	156	52	58	516	1" BSP

Airline Accessories for Air Hoists

Additional Information on Filters, Regulators and Lubricators

Ingersoll Rand ARO-Flo Series

These filters, regulators, lubricators and FRL combinations are designed to keep your air supply in top condition, as well as enable your hoist to operate at its peak performance.

Features

- Robust cast aluminium body.
- High-flow filter element with 5-micron filtration.
- Automatic drain.
- Reinforced metal bowls with sight glass.

FRL combinations 3/8" to 1":

- Regulated pressure 0-9.7 bar, max. inlet pressure 17 bar. Flush mount gauge and T-shape wall mount brackets included.

Separated filter, regulator and lubricator 1 1/4" and 1 1/2":

- Regulated pressure 0-8.5 bar, max. inlet pressure 20.7 bar. Gauge and connection nipples to be ordered separately.



ARO-Flo Series equipment is exempt from the EU Directives 2002/95/EC (CE compliance), and 94/9/EC (ATEX 95). ARO-Flo Series is Silicon free and meets 2002/95/EC (RoHS compliance).

CLK & MLK

Liftchain®

Hoist model	Hoist air inlet size	FRL size	FRL combination part no.	Filter part no.	Regulator part no.	Gauge part no.	Lubricator part no.	Nipple part no. (1)
For CLK, MLK and LC2A Air Hoists Series								
CLK Series...	3/8" NPT	3/8" BSP	C382C1-811					
MLK Series	1/2" NPT	1/2" BSP	C383D1-811					
LC2A015S...	3/4" BSP	3/4" BSP	C383E1-811					
LC2A030D...	3/4" BSP	3/4" BSP	C383E1-811					
LC2A040S...	1" BSP	1" BSP	C384F1-811					
LC2A060Q...	3/4" BSP	3/4" BSP	C383E1-811					
LC2A060S...	1" BSP	1" BSP	C384F1-811					
LC2A080D...	1" BSP	1" BSP	C384F1-811					
LC2A120D...	1" BSP	1" BSP	C384F1-811					
LC2A125S...	1 1/4" BSP	1 1/4" BSP	—	F355G1-411	R375G1-100	104502	L365G1-110	38751038
LC2A180T...	1" BSP	1" BSP	C384F1-811					
LC2A250Q...	1" BSP	1" BSP	C384F1-811					
LC2A250D...	1 1/4" BSP	1 1/4" BSP	—	F355G1-411	R375G1-100	104502	L365G1-110	38751038
LC2A375T...	1 1/4" BSP	1 1/4" BSP	—	F355G1-411	R375G1-100	104502	L365G1-110	38751038
LC2A500Q...	1 1/4" BSP	1 1/4" BSP	—	F355G1-411	R375G1-100	104502	L365G1-110	38751038
LCA750T...	1 1/4" BSP	1 1/4" BSP	—	F355G1-411	R375G1-100	104502	L365G1-110	38751038
LCA1000Q...	1 1/4" BSP	1 1/4" BSP	—	F355G1-411	R375G1-100	104502	L365G1-110	38751038

(1) Two nipples have to be ordered to assemble the filter / regulator / lubricator module.