

Ingersoll Rand®

LIFTCHAIN® Air and Hydraulic Chain Hoists

The Most Comprehensive Range on the Market – 1.5 - 100 ton Capacity



IR Ingersoll Rand®

LIFTCHAIN® Air and Hydraulic Chain Hoists

Introduction

Meet the toughest lifting requirements in the Offshore, Marine, Public Work and "Heavy Industries"

The LIFTCHAIN Series conform with the European standards (FEM classification 1 Bm or ISO M3) and with the major requirements set for the Industry, the Offshore, the Marine and the Public Works.



The air models (LCA Series) can be CE marked when fitted as standard with all the safety devices for compliance with the European Machinery Directives 89/392/EEC, 91/368/EEC, 93/44/EEC and 93/68/EEC.

The hydraulic models (LCH Series) are fitted as standard with specific safety options for incorporation into assemblies which have to meet the CE Directives (delivered with a declaration of incorporation).



Both LCA air and LCH hydraulic Series 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. For more hazardous areas such as zone 1, they are offered with a special spark & corrosion package (as per ATEX 94/9/CE Directive).



40 years of experience in heavy load lifting applications, in the most difficult environments

The new range of LIFTCHAIN® series is the result of a long experience of lifting applications in difficult environments. They are designed with the constraints of these application areas in mind.

This knowledge is determinant to offer the necessary safety and reliability.

Setting new standards by offering a modular and compact design, the LIFTCHAIN® Series is intended for tough industrial applications, offshore oil rigs, shipyard construction, petrochemical, refineries, foundries, steel mills, mining, etc... They offer new standard features with increased safety, rugged reliability, enhanced control and reduced maintenance.

A wide range of configurations with lifting capacities from 1.5 to 100 tons

The LIFTCHAIN® Series are available for load capacities up to 100 tons, in both pneumatic and hydraulic versions – hook mounted or motorised-braked trolley / hoist configurations.

The trolley / hoist assemblies can be supplied in rigid or articulated versions. **Specific models for B.O.P. applications are also available** (please contact technical sales).



LCH1000QIF0R
100 ton hydraulic
hoist / trolley
combination

◀ **LCH1000QIF0REA**
articulated
hoist / trolley combination
on drilling rig

LIFTCHAIN® Air and Hydraulic Chain Hoists

Selection Chart

The table hereunder shows the base model numbers of both pneumatic and hydraulic models, in hook mount version and hoist/trolley combination version.

To meet your particular need, these model numbers can be completed with specific codes corresponding to factory mounted accessories and options: height of lift, control, corrosion & spark resistant treatments etc... (see page with additional equipment).

Nominal load capacity (metric tons)	Falls of load chain	Max. lifting speed (m/min)	HOOK MOUNT VERSIONS Model Number	Minimum headroom mm	STANDARD HOIST / TROLLEY COMBINATIONS Model Number	Minimum headroom mm	LOW HEADROOM HOIST / TROLLEY COMBINATIONS Model Number	Minimum headroom mm	Max. traversing speed (m/min)
LCA Series Pneumatic Chain Hoists									
1.5	1	6.20	LC2A015SIP2C	409	LC2A015SIP3R ⁽¹⁾	448	LC2A015SIP3LR ⁽¹⁾	285	18
3	2	3.00	LC2A030DIP2C	549	LC2A030DIP3R ⁽¹⁾	604	LC2A030DIP3LR ⁽¹⁾	396	17
	1	3.20	LCA030SIP2C	579	LCA030SIP3R ⁽¹⁾	613	LCA030SIP3LR ⁽¹⁾	382	17
6	2	1.60	LCA060DIP2C	745	LCA060DIP3R ⁽¹⁾	790	LCA060DIP3LR ⁽¹⁾	521	12
	1	1.60	LCA060SIP2C	752	LCA060SIP3R ⁽¹⁾	892	LCA060SIP3LR ⁽¹⁾	440	12
12	2	0.90	LCA120DIP2C	991	LCA120DIP3R ⁽¹⁾	1003	LCA120DIP3LR ⁽¹⁾	640	12
12.5	1	3.20	LCA125SIP2C	864	LCA125SIP3R	1003			12
18	3	0.50	LCA180TIP2C	1083	LCA180TIP3R ⁽¹⁾	1239	LCA180TIP3LR ⁽¹⁾	684	12
25	4	0.40	LCA250QIP2C	1180	LCA250QIP3R ⁽¹⁾	1287	LCA250QIP3LR ⁽¹⁾	745	12
	2	1.60	LCA250DIP2C	1219	LCA250DIP3R	976			12
37.5	3	1.10	LCA375TIP2C	1567	LCA375TIP3R	1172			12
50	4	0.80	LCA500QIP2C	1580	LCA500QIP3R	1225			12
75	3	0.55	LCA750TIP2C	2338	LCA750TIP3R	1845			12
100	4	0.35	LCA1000QIP2C	2455	LCA1000QIP3R	1901			12
LCH Series Hydraulic Chain Hoists									
3	1	4.60	LCH030SIF0C	586	LCH030SIF0R ⁽¹⁾	613	Contact Technical sales for Product Specifications on LCH Low Headroom Hydraulic Models		15
6	2	2.30	LCH060DIF0C	745	LCH060DIF0R ⁽¹⁾	790			15
	1	5.20	LCH060SIF0C	735	LCH060SIF0R ⁽¹⁾	892			15
12	2	2.60	LCH120DIF0C	991	LCH120DIF0R ⁽¹⁾	999			15
12.5	1	4.55	LCH125SIF0C	864	LCH125SIF0R	1003			15
18	3	1.73	LCH180TIF0C	1083	LCH180TIF0R ⁽¹⁾	1239			15
25	4	1.30	LCH250QIF0C	1180	LCH250QIF0R ⁽¹⁾	1287			15
	2	2.27	LCH250DIF0C	1219	LCH250DIF0R	976			15
37.5	3	1.51	LCH375TIF0C	1567	LCH375TIF0R	1172			15
50	4	1.13	LCH500QIF0C	1580	LCH500QIF0R	1225			15
75	3	0.48	LCH750TIF0C	2338	LCH750TIF0R	1845			15
100	4	0.36	LCH1000QIF0C	2455	LCH1000QIF0R	1901			15

(1) Basic model number for hoist with MOTORIZED trolley: these models are also available with MANUAL trolley (geared and/or plain trolley) .

LIFTCHAIN® LCA Air Chain Hoists

Standard Features and Options

LIFTCHAIN Air Hoists Series Common Features

All steel / cast iron construction with 5:1 design factor. Ingersoll-Rand interpretation of the European Machinery Directives guarantees to the end users a full compliance with the best safety features on the market.

Automatic fail safe disc brake (no adjustment required) which is fully enclosed on both hoist and trolley.

Fully enclosed planetary gear box which is mounted on bearings and made from high strength heat treated steel.

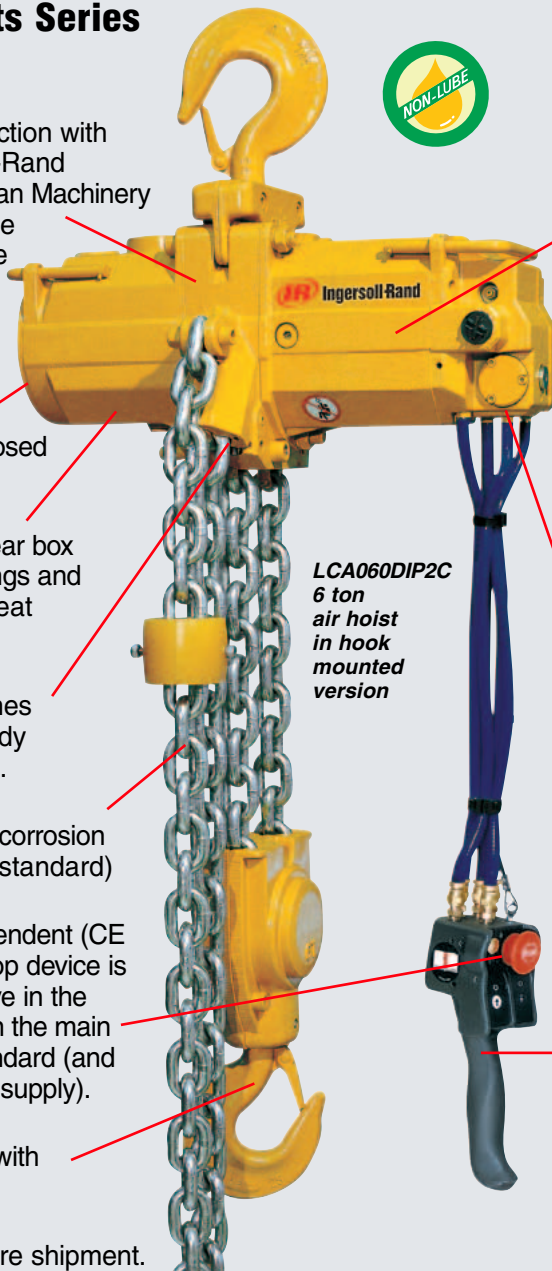
Top and bottom limit switches integrated into the hoist body for a more compact design.

Zinc plated chain for better corrosion resistance (3 metre lift as standard)

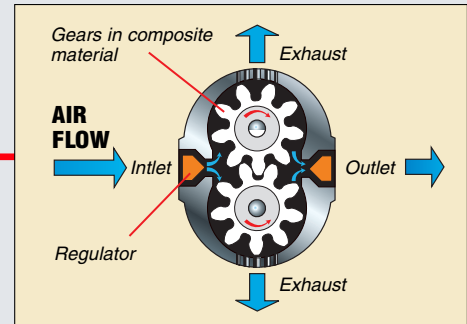
Emergency stop on PHS pendent (CE models): the emergency stop device is connected to a shut-off valve in the hoist body, acting directly on the main air flow, as per EN 418 standard (and not only on the pendent air supply).

Hook mounted on bearing with external lubrication point

☞ Individually tested before shipment.



LCA060DIP2C
6 ton
air hoist
in hook
mounted
version



ROTORAIR motor cutaway

ROTORAIR® high torque lube free (1) gear type air motor - provides long life, low maintenance and no environmental pollution (not effected by dust and humidity). An internal protection valve prevents excessive air consumption when lowering or without load. Integrated exhaust muffler for quieter operation.

The motorized trolleys are also fitted with ROTORAIR® geared type motor for smooth operation.

Built in overload protection and main air shut off valve (as standard on CE models) means no loss of headroom. Efficiency and accuracy of the system are excellent. Adjusted at the factory at about 130 % of the safe working load.

The PHS progressive remote pilot pendent gives excellent control, and allows for long control length (20m Max) without any effect on performance.

When used on our motorised trolley, it also gives you the added feature of being able to bring the trolley to a slow standstill, which prevents the load from swinging.

(1) Lubricating the LCA hoists has no detrimental effect on the operating performance. Also, it is strongly recommended to use a filtration system on the compressed air line. The compressed air temperature must not exceed 65° C at the motor air inlet.



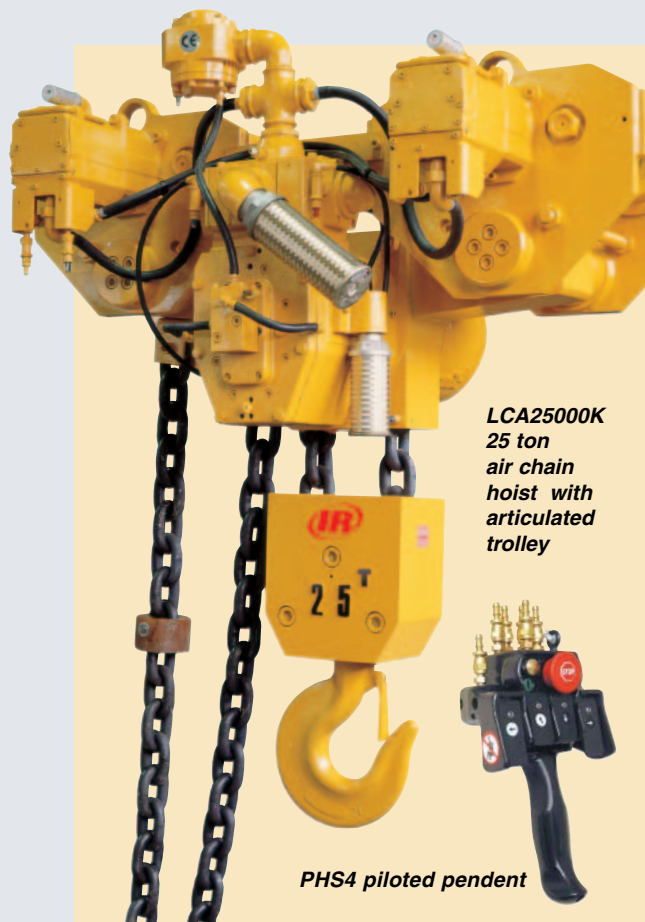
LC060DIP3LRE
6 ton low headroom
hoist/trolley combination

Options

- Variable lengths of lift and control.
- Chain buckets
- Articulated trolleys. Allow side pulling operations up to 20°.
- Rack & pinion drive for trolley/hoist combinations
- Special coatings and treatments (see description on following page).
- Customer adaptations and specials on demand.

LIFTCHAIN® LCA Air Chain Hoists

Standard Features and Options (continued)



LCA25000K
25 ton
air chain
hoist with
articulated
trolley

PHS4 piloted pendant



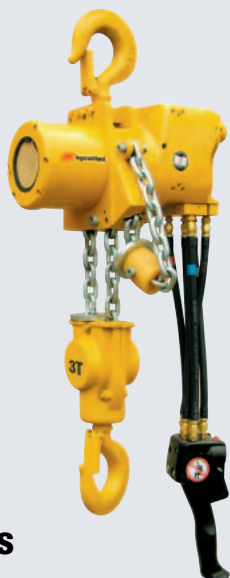
LCA500DIP3RE
air hoist & trolley
combination
on test rig



LCA150DIP3LRN low headroom hoist / trolley combination

NEW

LC2A030DIP2C
3 ton hoist



Special Coatings and Treatments

- Marine paint 150µ
- Offshore paint 290µ
- Additional sandblast preparation and a special carbozinc primer.
- Corrosion resistance package: Bronze coated base (option T1). Please consult us for details.



LCA500DIP2C
50 ton capacity
hoist in hook
mounted version

LCA060DIP2C
6 ton hoist/trolley
combination



LIFTCHAIN® LCA Air Chain Hoists

Specifications and Performance

Hook mounted hoist specifications - Performance at 6.3 bar - 90 psi⁽¹⁾

Model no.	Nominal Load capacity	Falls of load chain	Lifting speed at rated load	Lifting speed at no load	Lowering speed at rated load	Free air consumption	Minimum headroom	Weight with standard lift and control ⁽²⁾	Weight of chain per metre of lift
	metric tons		m/min	m/min	m/min	m³/min	mm	kg	kg
NEW LC2A015SIP2C	1.5	1	6.2	11.0	8.5	4.0	409	38	1.5
LC2A030DIP2C	3	2	3.0	5.5	4.0	4.0	549	48	2.8
LCA030SIP2C	3	1	3.2	6.0	6.0	5.0	579	80	3.8
LCA060DIP2C	6	2	1.6	3.0	3.0	5.0	745	100	7.6
LCA060SIP2C	6	1	1.6	3.2	3.0	5.0	752	130	5.7
LCA120DIP2C	12	2	0.8	1.6	1.5	5.0	991	180	11.4
LCA125SIP2C	12.5	1	3.2	6.0	5.0	12.0	864	320	10.7
LCA180TIP2C	18	3	0.5	0.9	1.0	5.0	1083	220	17.1
LCA250QIP2C	25	4	0.4	0.8	0.75	5.0	1180	230	23.0
LCA250DIP2C	25	2	1.6	3.0	2.5	12.0	1219	470	21.4
LCA375TIP2C	37.5	3	1.1	2.0	1.7	12.0	1567	820	32.1
LCA500QIP2C	50	4	0.8	1.5	0.9	12.0	1580	920	42.8
LCA750TIP2C	75	3	0.4	0.7	0.48	12.0	2338	1700	68.4
LCA1000QIP2C	100	4	0.3	0.5	0.35	12.0	2455	2200	91.2

Hoist/trolley combination specifications - Performance at 6.3 bar - 90 psi⁽¹⁾

For hoisting / lowering speeds and hoist air consumptions, see corresponding models in the above table

Std. model no. = without "L" Low headroom model no. = with "L"	Trolley type	Nominal load capacity	Hoist/trolley min. headroom Std. model / Low headroom model	Maximum traverse speed at rated load	Maximum traverse speed at no load	Trolley free air consumption	Minimum / maximum flange adjustment	Minimum inside curve radius ⁽²⁾	Total weight with hoist and standard lift ⁽³⁾
		metric tons	mm	m/min	m/min	m³/min	mm	m	kg
NEW LC2A015SIP2(L)P	Plain	1,5	448 / 285	—	—	—	82-200	1	85
LC2A015SIP2(L)G	Geared	1,5	448 / 285	—	—	—	82-200	1	87
LC2A015SIP3(L)R	Motor.	1,5	448 / 285	17	21	1.3	82-200	1	90
LC2A030DIP2(L)P	Plain	3	604 / 396	—	—	—	82-310	2	115
LC2A030DIP2(L)G	Geared	3	604 / 396	—	—	—	82-310	2	117
LC2A030DIP3(L)R	Motor.	3	604 / 396	17	21	1.3	82-310	2	120
LCA030SIP2(L)P	Plain	3	613 / 382	—	—	—	82-310	2	155
LCA030SIP2(L)G	Geared	3	613 / 382	—	—	—	82-310	2	157
LCA030SIP3(L)R	Motor.	3	613 / 382	17	21	1.3	82-310	2	160
LCA060DIP2(L)P	Plain	6	790 / 521	—	—	—	98-310	3	203
LCA060DIP2(L)G	Geared	6	790 / 521	—	—	—	98-310	3	210
LCA060DIP3(L)R	Motor.	6	790 / 521	12	15	1.9	98-310	3	220
LCA060SIP2(L)P	Plain	6	892 / 440	—	—	—	98-310	3	253
LCA060SIP2(L)G	Geared	6	892 / 440	—	—	—	98-310	3	260
LCA060SIP3(L)R	Motor.	6	892 / 440	12	15	1.9	98-310	3	270
LCA120DIP2(L)P	Plain	12	1003 / 640	—	—	—	131-310	3	337
LCA120DIP2(L)G	Geared	12	1003 / 640	—	—	—	131-310	3	345
LCA120DIP3(L)R	Motor.	12	1003 / 640	12	15	1.9	131-310	3	354
LCA125SIP3R	Motor.	12.5	1003 / —	12	15	1.9	131-310	3	420
LCA180TIP2(L)P	Plain	18	1239 / 684	—	—	—	143-310	3	418
LCA180TIP3(L)R	Motor.	18	1239 / 684	12	15	1,9	143-310	3	435
LCA250QIP2(L)P	Plain	25	1285 / 745	—	—	—	143-310	3	433
LCA250QIP3(L)R	Motor.	25	1285 / 745	12	15	1,9	143-310	3	450
LCA250DIP3R	Motor.	25	976 / —	12	15	3.8	160-310	25	502
LCA375TIP3R	Motor.	37.5	1172 / —	12	15	3.8	160-310	25	1670
LCA500QIP3R	Motor.	50	1225 / —	12	18	3.8	160-310	25	1950
LCA750TIP3R	Motor.	75	1845 / —	12	18	3.8	160-310	130	4500
LCA1000QIP3R	Motor.	100	1901 / —	12	18	7.6	160-310	130	4700

(1) Working pressure from 5 to 7 bar (70 to 100 psi) — (2) For the standard trolleys only, not valid for the low headroom trolleys.

(3) Standard height of lift 3 metres - Standard length of control 2 metres.

LIFTCHAIN® LCH Hydraulic Chain Hoists

Standard Features and Options

LIFTCHAIN Hydraulic Hoists Series Common Features

The best weight to size ratio with the highest performance of any comparable hoist

All steel / cast iron construction with 5:1 design factor.

Automatic fail safe disc brake (no adjustment required) which is fully enclosed on both hoist and trolleys

Fully enclosed planetary gearbox, which is mounted on bearings and made from high strength heat treated steel.

Zinc plated load chain for better corrosion resistance (3 metre lift as standard)

Hook mounted on bearing with external lubrication point

Available in hook mounted version and in hoist / trolley combination. Hoist / trolley models can be fitted with articulated linkage for side pulling applications (up to 20°)

Rack and pinion trolley drive available as an option

Integrated overload protection device (quick down hydraulic valve)
Integrated top and bottom limit switches (hydraulic valves)

☞ Individually tested before shipment

LCH250DIRN
25 ton hydraulic hoist / trolley combination

Controls

Control systems, hoses and fittings are delivered as separate accessories. The LCH Series can be provided with control systems such as:

- Hydraulic control console for hoist only, hoist / trolley combination, or for complete lifting system (e.g. systems with 2 or 4 hoist / trolley combination).
- Electro-hydraulic control console, also available for all types of configurations
- Hydraulic pendant control from 6 ton models with motorised trolley.

All these control systems can be delivered with emergency stop device on request.



◀ Hydraulic control console allowing the control of 4 hoist / trolley combinations



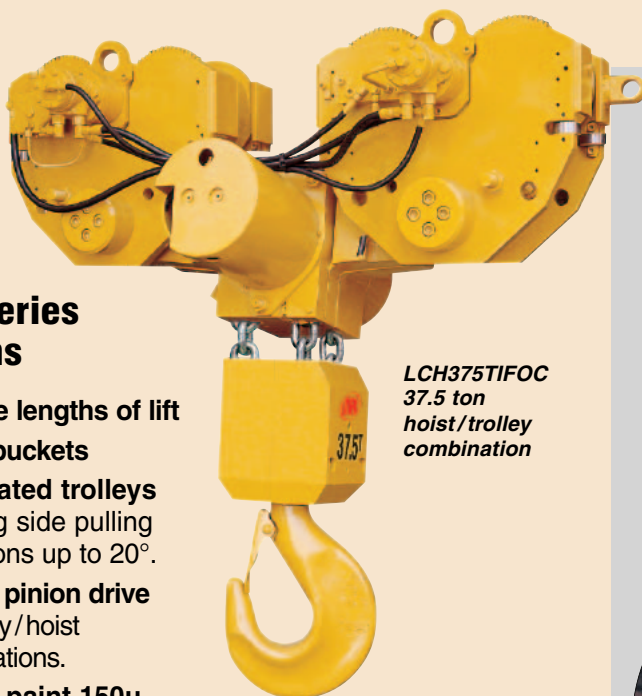
◀ Hydraulic pendant for hoist / trolley combination

LIFTCHAIN® LCH Hydraulic Chain Hoists

Standard Features and Options (continued)

LCH Series Options

- Variable lengths of lift
- Chain buckets
- Articulated trolleys allowing side pulling operations up to 20°.
- Rack & pinion drive for trolley/hoist combinations.
- Marine paint 150µ
- Offshore paint 290µ
- Additional sandblast preparation and a special carbozinc primer.
- Corrosion resistance package: Bronze coated base (option T1). Please consult us for details.
- Customer adaptations and specials on demand.



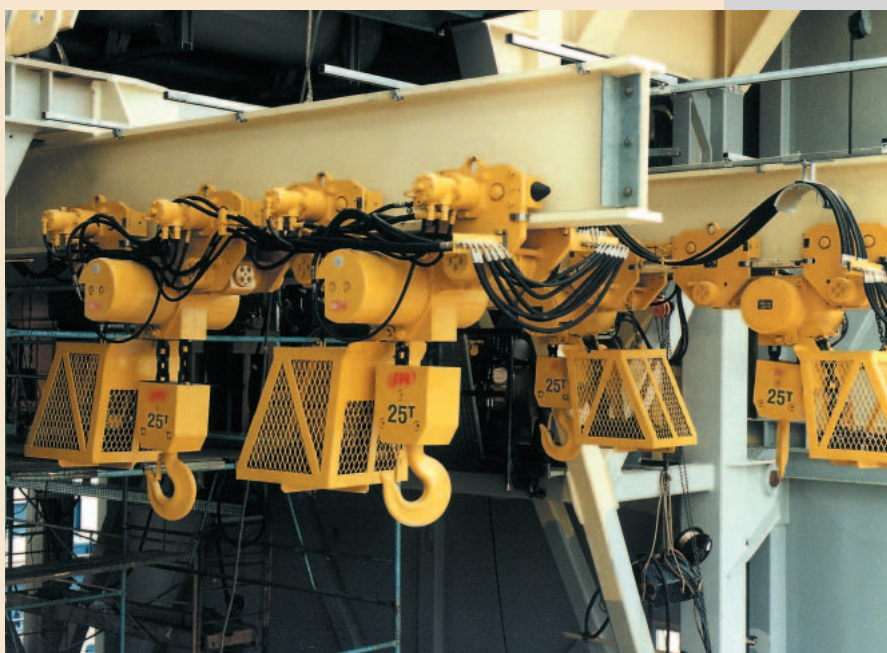
*LCH375TIFOC
37.5 ton
hoist/trolley
combination*



Tunneling applications:

▲ **LCH375TIF0C**
hydraulic hoist

◀ **LCH120DIF0R**
hydraulic
hoist / trolley
combination



25 Ton (LCH250QD) combination hoist on drilling rig.



▲ **LCH060DIFOC**
hydraulic hoist

LIFTCHAIN® LCH Hydraulic Chain Hoists

Specifications and Performance

Hook mounted hoist specifications

Model no.	Load capacity	Falls of load chain	Working pressure	Calibration pressure	Nominal flow	Lifting speed at rated load	Minimum headroom	Weight with standard lift (1)	Weight of chain per m. of lift
	metric tons		bar	bar	l/min	m/min	mm	kg	kg
LCH030SIFOC	3	1	110	125	23	4.6	586	82	3.85
LCH060DIFOC	6	2	110	125	23	2.3	745	130	7.70
LCH060SIFOC	6	1	140	175	48	5.6	735	93	5.75
LCH120DIFOC	12	2	140	175	48	2.8	991	175	11.5
LCH125SIFOC	12.5	1	175	200	50	4.55	864	500	10.7
LCH180TIFOC	18	3	140	175	48	1.86	1083	200	17.2
LCH250QIFOC	25	4	140	175	48	1.35	1180	430	23.0
LCH250DIFOC	25	2	175	200	50	2.27	1219	670	21.4
LCH375TIFOC	37.5	3	180	210	50	1.51	1567	875	32.1
LCH500QIFOC	50	4	177	210	50	1.13	1580	950	42.8
LCH750TIFOC	75	3	140	210	35	0.48	2338	2800	73.5
LCH1000QIFOC	100	4	220	240	35	0.36	2455	3245	98.0

Hoist/trolley combination specifications

For hoisting / lowering speeds and nominal flow of the hoists, see corresponding models in the above table

Model no.	Trolley type	Load capacity	Working pressure	Calibration pressure	Nominal flow	Hoist/trolley minimum headroom	Maximum traverse speed at rated load	Minimum / maximum flange adjustment	Minimum inside curve radius (1)	Total weight with hoist and standard lift (2)
		metric tons	bar	bar	l/min	mm	m/min	mm	m	kg
LCH030SIFOP	Plain	3	–	–	–	613	–	82-310	2	140
LCH030SIFOG	Geared	3	–	–	–	613	–	82-310	2	140
LCH030SIFOR	Motor.	3	100	110	10	613	23	82-310	2	150
LCH060DIFOP	Plain	6	–	–	–	790	–	98-310	3	200
LCH060DIFOG	Geared	6	–	–	–	790	–	98-310	3	200
LCH060DIFOR	Motor.	6	100	110	10	790	15	98-310	3	224
LCH060SIFOP	Plain	6	–	–	–	892	–	98-310	3	270
LCH060SIFOG	Geared	6	–	–	–	892	–	98-310	3	270
LCH060SIFOR	Motor.	6	100	110	10	892	15	98-310	3	292
LCH120DIFOP	Plain	12	–	–	–	1003	–	131-310	3	335
LCH120DIFOG	Geared	12	–	–	–	1003	–	131-310	3	335
LCH120DIFOR	Motor.	12	140	165	10	999	15	131-310	3	351
LCH125SIFOR	Motor.	12.5	100	110	10	1239	15	131-310	3	420
LCH180TIFOP	Plain	18	–	–	–	1239	–	143-310	3	420
LCH180TIFOR	Motor.	18	140	175	10	1239	15	143-310	3	435
LCH250QIFOP	Plain	25	–	–	–	1285	–	143-310	3	440
LCH250QIFOR	Motor.	25	140	175	10	1287	15	143-310	3	450
LCH250DIFOR	Motor.	25	150	210	10	976	15	160-310	25	1000
LCH375TIFOR	Motor.	37.5	150	210	10	1172	15	160-310	25	1600
LCH500QIFOR	Motor.	50	150	210	10	1225	15	160-310	25	1600
LCH750TIFOR	Motor.	75	200	210	35	1845	15	160-310	130	4720
LCH1000QIFOR	Motor.	100	220	250	35	1901	15	160-310	130	5900

(1) For the standard trolleys only, not valid for the low headroom trolleys.

(2) Standard height of lift 3 metres.

LIFTCHAIN® Air and Hydraulic Chain Hoists

Dimensions of the LCA & LCH Series - 1.5 to 25 Ton capacity / Hook Mounted Versions

Corresponding model numbers

LCA Air Series

LC2A015SIP2C

LC2A030DIP2C

LCA030SIP2C

LCA060DIP2C

LCA060SIP2C

LCA120DIP2C

LCA180TIP2C

LCA250QIP2C

LCH Hydraulic Series

LCH030SIF0C

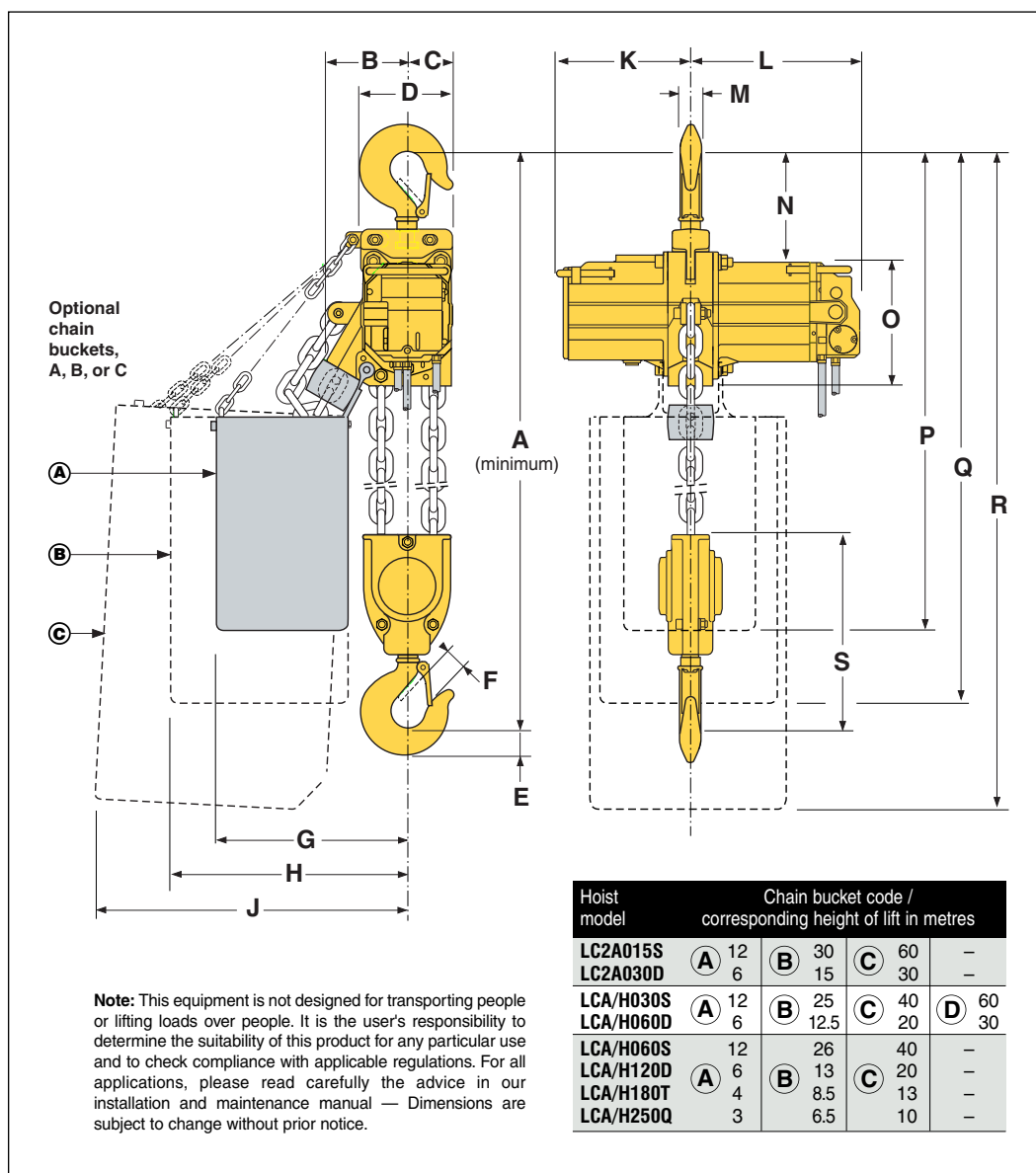
LCH060DIF0C

LCH060SIF0C

LCH120DIF0C

LCH180TIF0C

LCH250QIF0C



Model no.	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S
LC2A015SIP2C	409	112	67	134	29	27	275	325	405	127	203	22	73	190	628	728	828	146
LC2A030DIP2C	549	112	67	134	37	32	275	325	405	127	203	29	102	190	657	757	857	257
LCA030SIP2C	579	139	80	163	37	32	334	414	544	233	296	29	173	218	846	946	1142	185
LCA060DIP2C	745	139	80	163	46	40	334	414	544	233	296	35	192	218	865	965	1161	333
LCA060SIP2C	752	175	101	203	46	40	435	564	564	252	321	35	241	282	1086	1281	1281	223
LCA120DIP2C	991	175	101	203	67	58	435	564	564	252	321	50	280	282	1125	1320	1320	423
LCA180TIP2C	1083	175	101	203	78	78	435	564	564	311	376	62	320	282	1164	1360	1360	478
LCA250QIP2C	1180	175	101	203	99	82	435	564	564	311	376	87	368	282	1213	1410	1410	527
LCH030SIF0C	586	139	80	163	37	32	334	414	544	245	253	29	173	218	846	946	1142	185
LCH060DIF0C	745	139	80	163	46	40	334	414	544	245	253	35	192	218	865	965	1161	333
LCH060SIF0C	735	175	101	203	46	40	435	564	564	275	258	35	241	218	1086	1281	1281	223
LCH120DIF0C	991	175	101	203	67	58	435	564	564	275	258	50	280	282	1125	1320	1320	423
LCH180TIF0C	1083	175	101	203	78	78	435	564	564	352	298	62	320	282	1164	1360	1360	478
LCH250QIF0C	1180	175	101	203	99	82	435	564	564	333	316	87	368	282	1215	1410	1410	527

LIFTCHAIN® Air and Hydraulic Chain Hoists

Dimensions of the LCA & LCH Series - 12.5 to 100 Ton capacity / Hook Mounted Versions

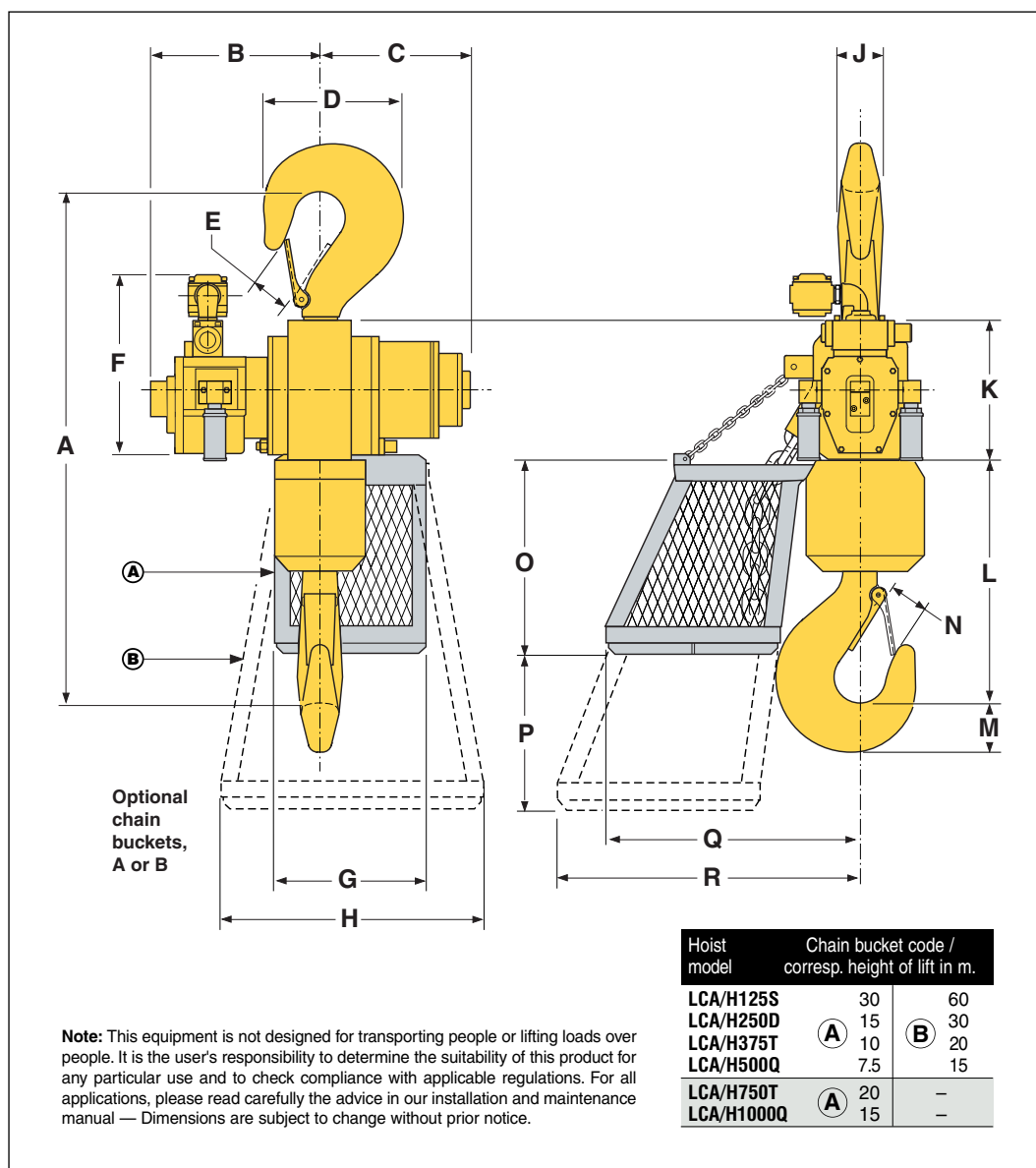
Corresponding model numbers

LCA Air Series

LCA125SIP2
LCA250DIP2C
LCA375TIP2C
LCA500QIP2C
LCA750TIP2C
LCA1000QIP2C

LCH Hydraulic Series

LCH125SIF0C
LCH250DIF0C
LCH375TIF0C
LCH500QIF0C
LCH750TIF0C
LCH1000QIF0C



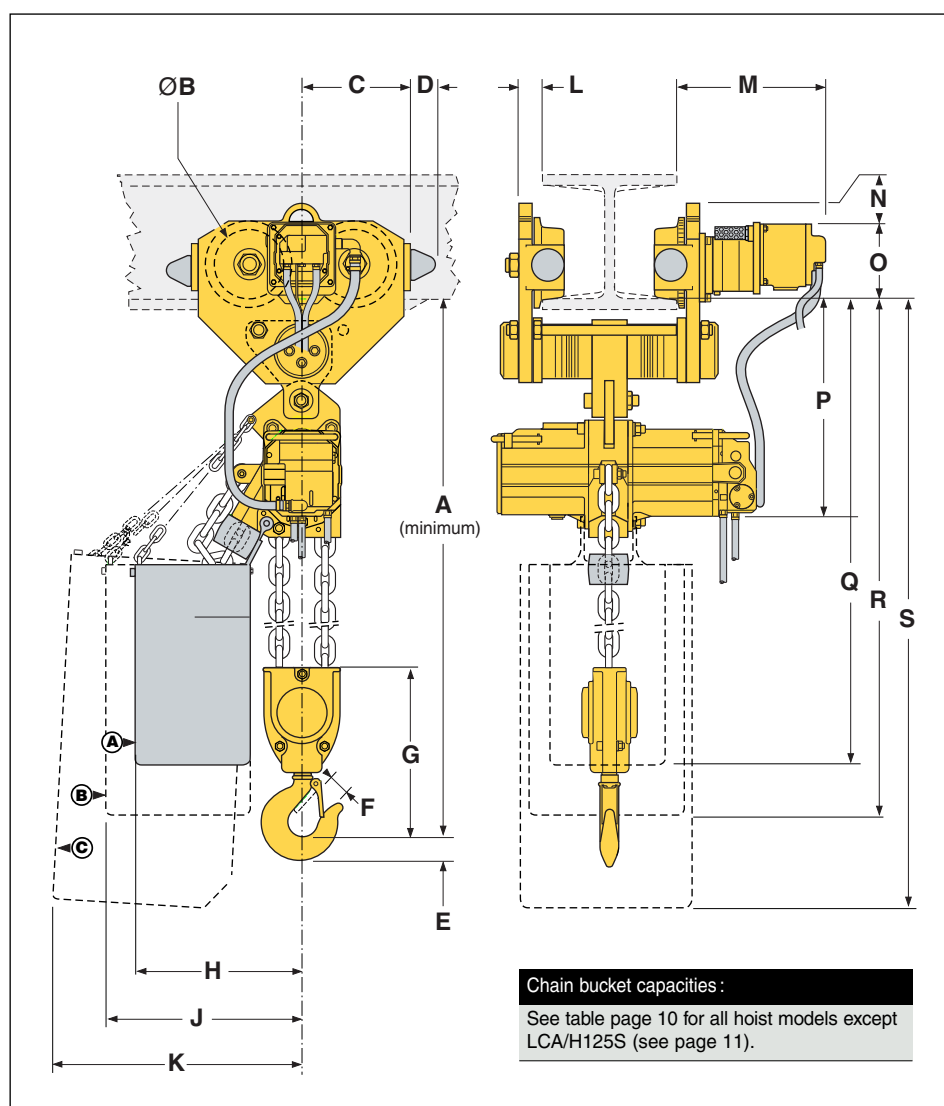
Model no.	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R
LCA125SIP2	864	492	367	221	58	553	481	800	50	390	313	67	58	840	215	996	1016
LCA250DIP2C	1219	492	367	348	82	553	481	800	87	390	565	99	82	840	215	917	937
LCA375TIP2C	1567	546	475	384	103	553	481	800	125	406	701	132	103	840	215	937	957
LCA500QIP2C	1580	573	448	432	118	553	481	800	140	415	750	150	118	840	215	910	930
LCA750TIP2C	2338	632	718	574	152	553	912	912	180	774	1055	190	156	1180	590	1163	1402
LCA1000QIP2C	2455	668	682	607	250	553	912	912	200	774	1111	212	180	1180	590	1127	1365
LCH125SIF0C	864	446	265	221	58	—	481	800	50	390	313	67	58	840	215	996	1016
LCH250DIF0C	1219	446	265	348	82	—	481	800	87	390	565	99	82	840	215	917	937
LCH375TIF0C	1567	500	375	384	103	—	481	800	125	406	701	132	103	840	215	937	957
LCH500QIF0C	1580	460	345	432	118	—	481	800	140	415	757	150	118	840	215	910	930
LCH750TIF0C	2338	560	652	574	152	—	912	912	180	774	1055	190	156	1180	590	1163	1402
LCH1000QIF0C	2455	560	652	607	250	—	912	912	200	774	1111	212	180	1180	590	1127	1365

LIFTCHAIN® Air and Hydraulic Chain Hoists

Dimensions of the LCA & LCH Hoist/Trolley Combinations - 1.5 to 25 Ton Capacity

Corresponding model numbers

LCA Air Series	LCH Hydraulic Series
LC2A015SIP3R	LCH030SIF0R
LC2A030DIP3R	LCH060DIF0R
LCA030SIP3R	LCH060SIF0R
LCA060DIP3R	LCH120DIF0R
LCA060SIP3R	LCH125SIF0R
LCA120DIP3R	LCH180TIF0R
LCA125SIP3R	LCH250QIF0R
LCA180TIP3R	
LCA250QIP3R	



Model no.	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S
LC2A015SIP3R	448	90	146	19	29	27	146	275	325	405	23	182	24	77	302	687	767	867
LC2A030DIP3R	604	120	146	19	37	32	257	275	325	405	30	188	57	92	347	712	812	912
LCA030SIP3R	613	120	183	19	37	32	185	380	460	590	30	188	54	95	381	882	982	1178
LCA060DIP3R	790	160	243	50	46	40	333	334	414	544	42	328	43	177	479	910	1010	1206
LCA060SIP3R	892	160	243	50	46	40	223	435	564	564	42	328	43	177	479	1095	1291	1291
LCA120DIP3R	1003	160	250	58	67	58	423	435	564	564	52	338	43	177	521	1137	1333	1333
LCA125SIP3R	1005	200	250	58	67	58	296	996	1016	—	52	338	43	177	695	1553	1768	—
LCA180TIP3R	1239	225	321	58	78	78	479	435	564	564	69	342	60	208	704	1319	1515	1515
LCA250QIP3R	1287	225	321	58	99	82	527	435	564	564	69	342	60	208	704	1319	1515	1515
LCH030SIF0R	613	150	183	19	37	32	185	380	460	590	30	199	43	95	381	882	982	1178
LCH060DIF0R	790	200	243	50	46	40	333	334	414	544	42	339	43	177	479	910	1010	1206
LCH060SIF0R	892	200	243	50	46	40	223	435	564	564	42	339	43	177	479	1095	1291	1291
LCH120DIF0R	999	160	250	58	67	58	423	435	564	564	52	350	64	157	567	1137	1333	1333
LCH125SIF0R	1005	200	250	58	67	58	296	996	1016	—	52	338	43	177	695	1553	1768	—
LCH180TIF0R	1239	225	321	58	78	78	479	435	564	564	69	360	81	189	757	1319	1515	1515
LCH250QIF0R	1287	225	321	58	99	82	527	435	564	564	69	360	81	189	757	1319	1515	1515

LIFTCHAIN® Air and Hydraulic Chain Hoists

Dimensions of the LCA & LCH Low Headroom Hoist/Trolley Combinations

Corresponding model numbers

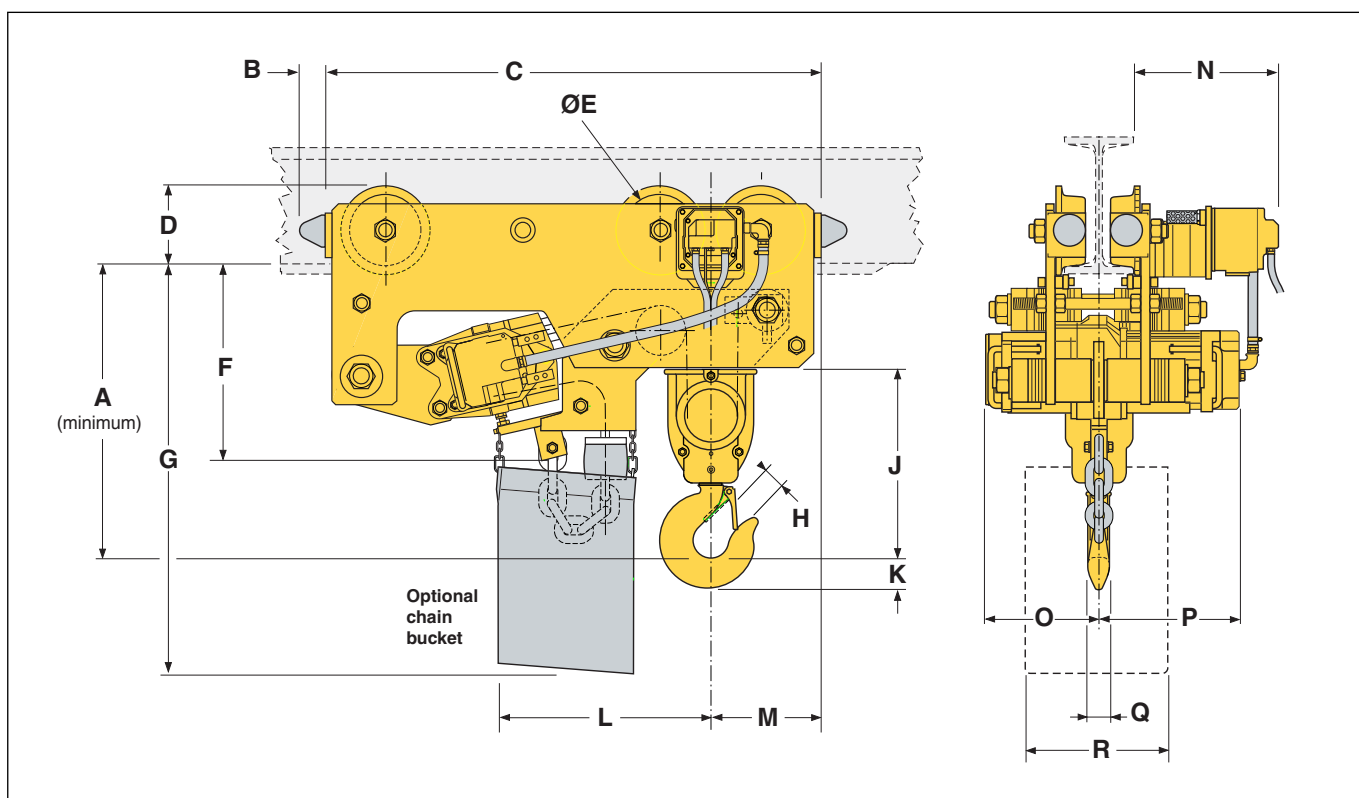
LCA Air Series

- LC2A015SIP3LR
- LC2A030DIP3LR
- LCA030SIP3LR
- LCA060DIP3LR
- LCA060SIP3LR
- LCA120DIP3LR
- LCA180TIP3LR
- LCA250QIP3LR



Hoist model	Chain bucket code / corresponding height of lift in metres			
LCA015S	(A) 12	(B) 30	(C) 60	—
LCA030D	6	15	30	—
LCA030S	(A) 12	(B) 25	(C) 40	(D) 60
LCA060D	6	12.5	20	30
LCA060S	12	26	40	—
LCA120D	(A) 6	(B) 13	(C) 20	—
LCA180T	4	8.5	13	—
LCA250Q	3	6.5	10	—

Note: This equipment is not designed for transporting people or lifting loads over people. It is the user's responsibility to determine the suitability of this product for any particular use and to check compliance with applicable regulations. For all applications, please read carefully the advice in our installation and maintenance manual — Dimensions are subject to change without prior notice.



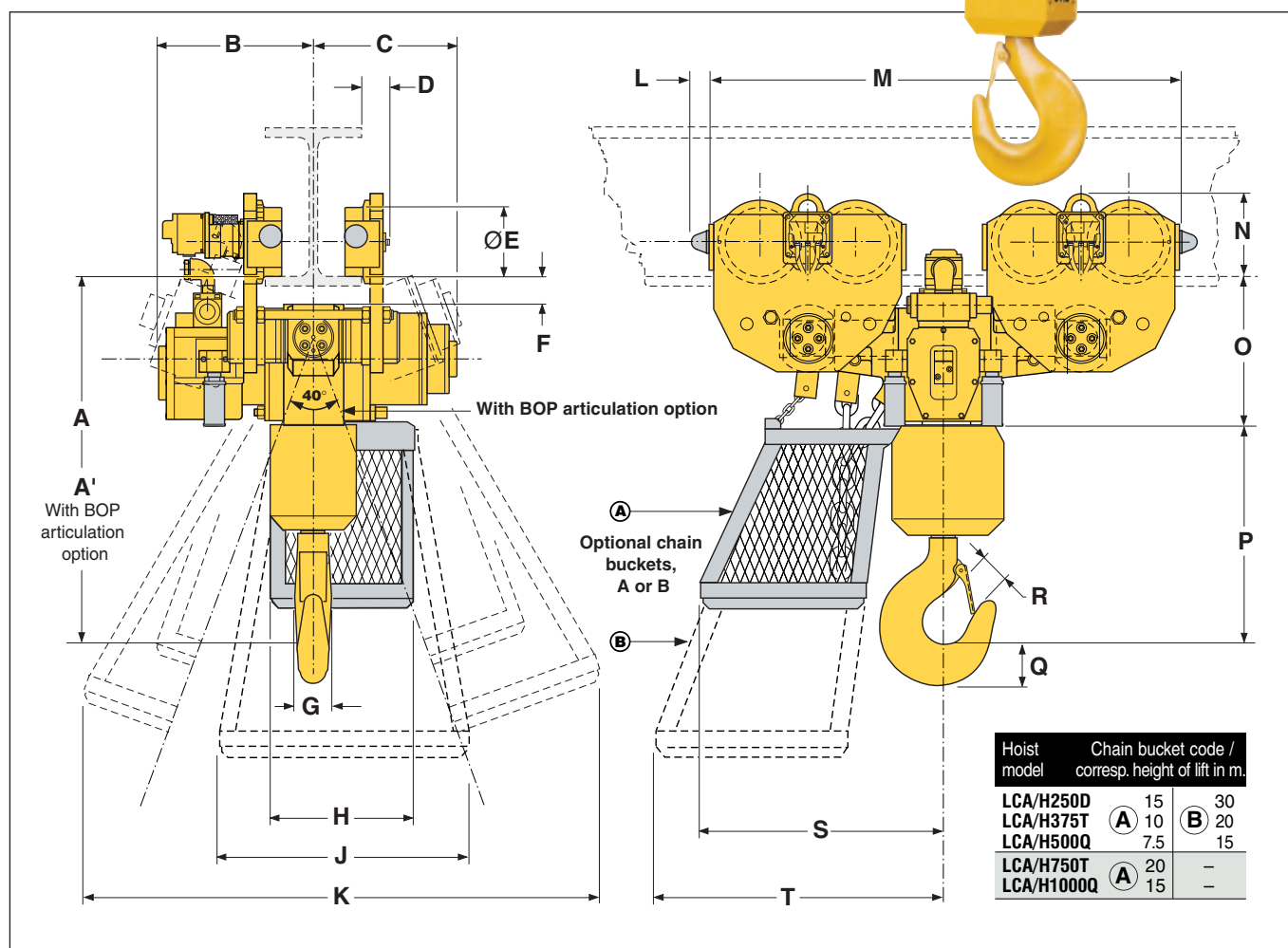
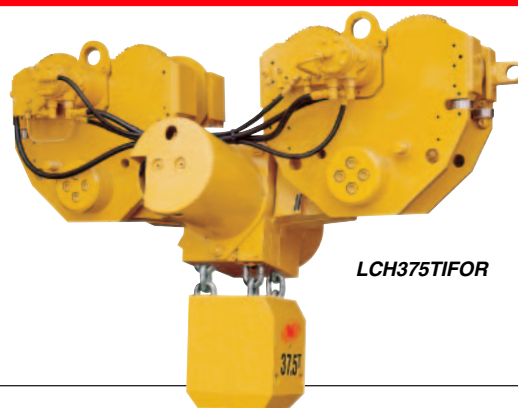
Model no.	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R
LC2A015SIP3LR	285	19	631	135	120	212	560	27	147	29	233	216	189	127	203	22	185
LC2A030DIP3LR	396	19	631	135	120	212	560	32	258	37	264	185	189	127	203	29	185
LCA030SIP3LR	382	58	966	180	160	361	819	32	185	37	328	294	323	238	309	29	230
LCA060DIP3LR	521	58	966	180	160	361	819	40	333	46	375	247	323	238	309	35	230
LCA060SIP3LR	440	58	1111	180	160	435	976	40	223	46	427	304	326	253	290	35	310
LCA120DIP3LR	640	58	1111	180	160	435	976	58	423	67	484	247	326	253	290	50	310
LCA180TIP3LR	684	58	1245	249	225	441	967	78	462	78	539	326	332	253	329	62	310
LCA250QIP3LR	745	58	1301	249	225	441	967	82	514	99	593	327	332	253	329	87	310

LIFTCHAIN® Air and Hydraulic Chain Hoists

Dimensions of the LCA & LCH Hoist/Trolley Combinations - 25 to 100 Ton Capacity

Corresponding model numbers

LCA Air Series	LCA Hydraulic Series	Nbr. of trolley modules
LCA250DIP3R	LCH250DIFOR	↔ 2 trolley modules
LCA375TIP3R	LCH375TIFOR	↔ 2 trolley modules
LCA500QIP3R	LCH500QIFOR	↔ 2 trolley modules
LCA750TIP3R	LCH750TIFOR	↔ 4 trolley modules
LCA1000QIP3R	LCH1000QIFOR	↔ 4 trolley modules



Model no.	A	A'	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	T
LCA250DIP3R	976	1021	493	367	68	160	80	87	481	800	1213	58	1240	220	410	565	99	82	848	929
LCA375TIP3R	1172	1172	546	472	96	225	90	125	481	800	1651	58	1552	270	470	701	132	103	875	956
LCA500QIP3R	1225	1288	573	448	96	225	90	140	481	800	1651	58	1532	270	465	750	150	118	910	930
LCA750TIP3R	1845	1845	637	714	99	225	70	180	1102	—	2150	58	3254	270	790	1055	190	156	1402	—
LCA1000QIP3R	1901	1901	685	670	99	225	98	200	1021	—	2150	58	3254	270	790	1111	212	180	1366	—
LCH250DIFOR	976	1021	446	265	68	160	80	87	481	800	1213	58	1240	220	455	565	99	82	848	929
LCH375TIFOR	1172	1172	500	373	96	225	90	125	481	800	1651	58	1552	270	470	701	132	103	875	956
LCH500QIFOR	1225	1288	527	370	96	225	90	140	481	800	1651	58	1552	270	465	750	150	118	910	930
LCH750TIFOR	1845	1845	528	684	99	225	70	180	1102	—	2150	58	3254	270	790	1055	190	156	1402	—
LCH1000QIFOR	1901	1901	561	652	99	225	98	200	1021	—	2150	58	3254	270	790	1111	212	180	1366	—

LIFTCHAIN® Air and Hydraulic Chain Hoists

Model Identification Codes

The model identification codes hereunder give you an overview of the configuration possibilities available for the LIFTCHAIN range.

Example: **LCA500QIP3REA10M15BQZ-E**

LC	A	500Q	IP	3	REA	10M	15	BQZ	-E
Series	Power type		Body type	Control type		Height of lift	Control length		CE package
LC = LIFTCHAIN Series LC2 = LIFTCHAIN Series, 2nd generation	A = Air H = Hydraulic		IP = Industrial range, pendent control IC = Industrial range, pull cord IF = Industrial range, full flow control (Hydraulic models only)	<i>Only with IC models</i> 1 = Pull cord <i>Only with IP models</i> 2 = 1 motor pendent 3 = 2 motor pendent 4 = 3 motor pendent <i>With all models</i> 0 = No pendent or no control valve		3M = 3 metre standard lift XXM = Specified length in metres	0 = no control hose XX = Specified length in metres		-E = compliance with the European Machinery Directives
Load capacity / falls of chain		Suspension				Options			
015S = 1.5 ton / single fall 030S = 3 ton / single fall 030D = 3 ton / two falls 060S = 6 ton / single fall 060D = 6 ton / two falls 120D = 12 ton / two falls 125S = 12.5 ton / single fall 180T = 18 ton / three falls 250D = 25 ton / two falls 250Q = 25 ton / four falls 375T = 37.5 ton / three falls 500Q = 50 ton / four falls 750T = 75 ton / three falls 1000Q = 100 ton / four falls		A = Fixed lug C = Swivel top hook PU ⁽¹⁾ = Plain rigid universal trolley (flat or tapered beam / 1.5 to 6 ton) PE ⁽¹⁾ = Plain rigid trolley (flat beam / 12 to 25 ton) PN ⁽¹⁾ = Plain rigid trolley (tapered beam / 12 to 25 ton) GU ⁽¹⁾ = Geared rigid universal trolley (flat or tapered beam / 1.5 to 6 ton) GE ⁽¹⁾ = Geared rigid trolley (flat beam / 12 ton only) GN ⁽¹⁾ = Geared rigid trolley (tapered beam / 12 ton only) RU ⁽¹⁾⁽²⁾ = Motorised rigid universal trolley (flat or tapered beam / 1.5 to 6 ton) RE ⁽¹⁾⁽²⁾ = Motorised rigid trolley (flat beam / 12 to 100 ton) RN ⁽¹⁾⁽²⁾ = Motorised rigid trolley (tapered beam / 12 to 100 ton)				A = Standard chain bucket B = Large chain bucket C = Extra large chain bucket K = Cast iron pendent P = Marine paint 150µ Q = Offshore paint 290µ Z = Additional sandblast preparation and primer T1 = Spark resistant package (ATEX zone 1)			
		(1) Add "L" for low headroom trolley, e.g. LRU or LRE. (2) Add "A" for Articulated trolley, e.g. RUA - or/and add "R" for Rack and Pinion configuration, e.g. RUR (Only valid for flat beams)							



Compliance with the European Machinery Directives :

LCA and LCH

The LIFTCHAIN air and hydraulic models can be CE marked and fitted as standard with all the safety devices for compliance with the European Machinery Directives 89/392/EEC, 91/368/EEC, 93/44/EEC and 93/68/EEC. In this case, they are delivered with the CE mark and an EC declaration of conformity.

LCA and LCH delivered without control

These models are considered as part machines intended for incorporation into assemblies, therefore they are not CE marked but are delivered with a declaration of incorporation. However they are fitted as standard with safety options to allow their incorporation into systems which have to be in compliance with the CE Directives (89/392/EEC, 91/368/EEC, 93/44/EEC, 93/68/EEC).

Ingersoll Rand®

Other Material Handling Products Available



Liftstar 600/1500 Series



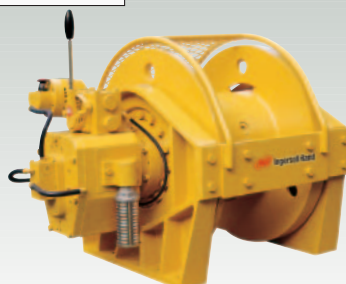
FA7 Series



Liftstar Manriding Series



Force 5 Series



Liftstar 2000/5000 Series



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