Liftchain® Air Hoist
LC2A 1 to 25 Ton
Liftchain® Series Air Chain Hoists

Reliable, Safe, Versatile

Since 1924, Ingersoll Rand® has built extremely durable and reliable winches and hoists. Ingersoll Rand® Liftchain Hoists are the most versatile heavy-lifting hoists in the Ingersoll Rand® hoist line. They incorporate all the best features learned from decades of experience into a compact, modular frame. Available in a list of options, Ingersoll Rand® hoists are the gold standard. Whether working in the mines, food industries, with chemicals or at shipyards, our Liftchain hoists are trusted around the world for many industrial applications. You can count on Ingersoll Rand® Liftchain hoists to get the job done.

Reliable

- All steel construction for better durability
- Designed specifically for harsh environments, including resistance to dust and humidity and 100% duty cycle operation
- Grade 80 calibrated load chain resists corrosion
- High-starting torque gear-type air motor offers precise spotting capability
- Variable speed control through pilot pendant or pull chain control

Safe

- Spark resistant design ideal for potentially explosive atmosphere; classified as an equipment category 3 per ATEX Directive 2014/34/EU for zone 2 of Directive 1999/92/EC (optional zone 1 package available)
- Reduced maintenance, self-adjusting automatic disc brake fully enclosed for better protection
- CE-certified models include overload protection, emergency stop and built-in main air shut-off valve

Versatile

- Numerous application-specific options available, including chain containers (fabric or metallic) and rigid mounting trolleys (plain, geared or motorized)
- Low maintenance, self-adjusting automatic disc brake fully enclosed for better protection
- Upper and lower limit switch allows hoist to be used in a horizontal position

Reliable, Safe, Versatile.

If there was a need for lifting, pulling or positioning, chances are an Ingersoll Rand Liftchain® Hoist was there to do the job. Liftchain® hoists provide the right lifting package for your application. Available in both hook mount and trolley mount models, the LC2A Series is fully customized for a system perfectly matched to your load and lift requirements in any industrial application. Liftchain hoists stand up to high duty cycles in harsh environments, while providing precision spotting control. CE-certified models are ATEX zone 2 rating (zone 1 optional) to ensure safety. All Liftchain hoists are built to resist dust, humidity and corrosive gases for reliable operation.

Shipyard

- Private and military builds and repair
- Moving & positioning large blades engines, etc.
- Salvage and recovery

Mining and Tunneling

- Underground copper, gold, phosphorous mines & tunneling
- Loading large parts on mining vehicles
- Maneuvering large machines

Power Plants

- Floating Production Storage & Offloading Vessels (FPSO)
- Maneuvering large machines & turbines in power plant
- General Maintenance

Manufacturing

- Various Manufacturing parts under constant lift & lower
- Various big applications - handling chemicals
- Aerospace build and repair
- Food production & processing
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 shipyards, petrochemical, refineries, foundries, steels mills, mining, tunneling, etc.

### Liftchain® Series Air Chain Hoists

#### Gear Motor

**Features:**
- Reliable technology with a small amount of parts
- High efficiency at a range of speeds
- Needs very little air lubrication
- Few moving parts, virtually maintenance free

#### Pendent

**Features:**
- Ergonomic design and Strong cast aluminum construction (cast iron optional)
- Fully variable speed control.
- Up to 20 meters of control length (more with additional accessories)
- Coated for long term use in harsh environment.
- Available in 2 or 4 directional buttons
- Optional Emergency Stop button (standard on CE models)

#### Limit Switch

**Features:**
- Stops the hoist when reaching top or bottom stroke limit
- Integrated on the hoist body
- Low exposure to external shocks
- Prevents excessive stress on load bearing components, extending lifetime.

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**Walk Around the Tool:**

- **Exhaust system** with minimal noise
- **Pneumatic gear motor**, yielding low sensitivity to dust and making easy to maintain
- **Automatic multi disk brake** enclosed for corrosion resistance
- **Integrated upper and lower limit switches** for better protection
- **Corrosion Resistant grade 80 load chain**
- **Water drain holes** to prevent water from being trapped in the block and corroding
- **Ball bearing mounted bottom hook** for easier, smoother turning under load
- **Ergonomic variable speed pendant control**
Hook Mounted Liftchain® Hoists

These standard hook-mount models can be customized with many options for effective adaptation to your application – type of control, chain bucket, suspension.

Features:
- We have a swivel top hook for enhanced maneuverability
- Ideal for maintenance purposes due to easy transport – More common when hoist is going to be used in multiple locations or on multiple levels (floors)
- Compact design making the hoist ideal for transport

LC2A Standard Series (1 Ton to 25 Ton Range Scope)

<table>
<thead>
<tr>
<th>Model</th>
<th>Rated capacity (T)</th>
<th>Folds of load chain</th>
<th>Motor size (HP)</th>
<th>Lifting speed at rated load (m/min)</th>
<th>Lifting speed at rated load (m/min)</th>
<th>Air c. at rated load (m³/min)</th>
<th>Sound pressure levels (dBA)</th>
<th>Footprint Dim. (mm)</th>
<th>Chain weight at 1m extra lift (kg)</th>
<th>Chain weight at 1m extra lift (kg)</th>
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(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) FEM/ISO Mechanical classification for LC2A010S & LC2A020D is only 1 Bm/M3 when selecting Stainless Steel chain option.

Trolley Mounted Liftchain® Hoists

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

Features:
- All steel construction with sealed bearings
- 5:1 safety factor
- Operates on a flat or tapered beam profiles
- Modular concept
- 3 drive options: plain, geared or motorized
- Adjustable to various beam width
- "W" Wide Beam option (up to 3T models)
- "T" Spark resistant option

LC2A Standard Series - Trolley Mount (1 Ton to 25 Ton Range Scope)

<table>
<thead>
<tr>
<th>Model number</th>
<th>Rated capacity (T)</th>
<th>Trolley drive adjustment (mm)</th>
<th>Trolley Range adjustment with Wide Beam option (mm)</th>
<th>Minimum inside curve radius (mm)</th>
<th>Minimum headroom (mm)</th>
<th>Weight * with Plain Trolley (Kg)</th>
<th>Weight * with Geared Trolley (Kg)</th>
<th>Weight * with Motorized Trolley (Kg)</th>
<th>Motorized Trolley speed at rated load (m³/min)</th>
<th>Trolley air cons. at rated load (m³/min)</th>
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</table>

(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) FEM/ISO Mechanical classification for LC2A010S & LC2A020D is only 1 Bm/M3 when selecting Stainless Steel chain option.
Miner Series Liftchain® Hoists

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.

**Features:**
- Suitable to operate at 4 bar
- D 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 stop units which comes against the hoist central part.
- Cast iron pendent control

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**How to Buy: 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.

Example: LC2A030DIP3VU3M2AJ12-E

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<th>Control</th>
<th>Trolley</th>
<th>Suspension</th>
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**LC2A Mining Series (1 Ton to 25 Ton Range Scopes)**

<table>
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<tr>
<th>Model</th>
<th>Capacity &amp; falls of chain</th>
<th>Power type</th>
<th>Range type</th>
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*Add the letter “J” for load hook (eg. LC2A030DS)
*Add the letter “L” for low headroom trolley (eg. LUV or LRUV)
*Add the letter “M” for wide beam flange only available on PU, CEU and HU from 1T to 3T (eg. PUV, GPUW, HUVW)
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