Liftchain Low Profile Air Chain Hoist

1.5-100 ton

**Ideal for:**
- Onshore
- Offshore
- Marine

- **Rugged All Steel Construction** delivers long-life and durability
- **Corrosion Resistant marine grade paint**
- **Compact trolley design** minimizes headroom between hook/clevis and bottom of hoist beam
- **Articulated trolley** allows up to 20 degree side pulling operation
- **Integrated upper and lower limit switches** for better protection
- **Low maintenance gear motor**
- **Corrosion resistant grade 80 load chain**
- **Fully enclosed, automatic multi disc brake** for corrosion resistance
Liftchain Low Profile Air Chain Hoist

1.5-100 ton

Ingersoll Rand Liftchain Hoists are the most advanced heavy-lifting hoists in the Ingersoll Rand hoist line. They incorporate all the best features we’ve developed from our decades of experience into a compact, modular frame. The Low Headroom version helps you get the job done where space is restricted.

### General Characteristics

<table>
<thead>
<tr>
<th>Model</th>
<th>Lifting Capacity</th>
<th>Reeves of Chain</th>
<th>Headroom (cm)</th>
<th>Trolley Flange Adjustment Range (cm)</th>
<th>Hoist Weight with 3m (10ft) of Chain (kg)</th>
<th>Trolley Weight (lb)</th>
<th>Weight per additional meter of lift (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC2A015SIL</td>
<td>1.5</td>
<td>1</td>
<td>275 (10.8)</td>
<td>81-310 (3.2-12.2)</td>
<td>38 (84)</td>
<td>82 (126)</td>
<td>1.5 (3.3)</td>
</tr>
<tr>
<td>LC2A030DIL</td>
<td>3</td>
<td>2</td>
<td>386 (15.2)</td>
<td>81-310 (3.2-12.2)</td>
<td>48 (106)</td>
<td>82 (121)</td>
<td>3 (6.6)</td>
</tr>
<tr>
<td>LC2A060QIL</td>
<td>6</td>
<td>4</td>
<td>465 (18.3)</td>
<td>120-310 (4.7-12.2)</td>
<td>74 (163)</td>
<td>176 (315)</td>
<td>6 (13.2)</td>
</tr>
<tr>
<td>LC2A060SIL</td>
<td>6</td>
<td>1</td>
<td>475 (18.7)</td>
<td>140-310 (5.5-12.2)</td>
<td>125 (276)</td>
<td>375 (313)</td>
<td>5.7 (12.6)</td>
</tr>
<tr>
<td>LC2A080DIL</td>
<td>8</td>
<td>2</td>
<td>590 (23.2)</td>
<td>120-310 (4.7-12.2)</td>
<td>118 (260)</td>
<td>182 (313)</td>
<td>7.6 (16.8)</td>
</tr>
<tr>
<td>LC2A120DIL</td>
<td>12</td>
<td>2</td>
<td>670 (26.4)</td>
<td>140-310 (5.5-12.2)</td>
<td>170 (375)</td>
<td>370 (401)</td>
<td>11.4 (25.1)</td>
</tr>
<tr>
<td>LC2A180TIL</td>
<td>18</td>
<td>3</td>
<td>730 (28.7)</td>
<td>210-310 (8.3-12.2)</td>
<td>277 (611)</td>
<td>413 (826)</td>
<td>17.1 (37.7)</td>
</tr>
<tr>
<td>LC2A250QIL</td>
<td>25</td>
<td>4</td>
<td>775 (30.5)</td>
<td>160-310 (6.3-12.2)</td>
<td>324 (714)</td>
<td>416 (829)</td>
<td>23 (50.7)</td>
</tr>
</tbody>
</table>

### Performance

<table>
<thead>
<tr>
<th>Model</th>
<th>Lifting Capacity</th>
<th>Lifting Speed</th>
<th>Full Load</th>
<th>No Load</th>
<th>Lowering Speed</th>
<th>Required Air Flow</th>
<th>Working Air Pressure</th>
<th>Hoist Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Metric Tons</td>
<td>m/min (fpm)</td>
<td>m/min (fpm)</td>
<td>m/min (fpm)</td>
<td>m/min (fpm)</td>
<td>m³/min (cfm)</td>
<td>bar (psi)</td>
<td></td>
</tr>
<tr>
<td>LC2A015SIL</td>
<td>1.5</td>
<td>6.2 (20.3)</td>
<td>11 (36.1)</td>
<td>8.5 (27.9)</td>
<td>4 (141)</td>
<td>4.4 (155)</td>
<td>6.3 (90)</td>
<td></td>
</tr>
<tr>
<td>LC2A030DIL</td>
<td>3</td>
<td>3 (9.8)</td>
<td>5.5 (18)</td>
<td>4 (13.1)</td>
<td>4 (141)</td>
<td>4.4 (155)</td>
<td>6.3 (90)</td>
<td></td>
</tr>
<tr>
<td>LC2A060QIL</td>
<td>6</td>
<td>1.5 (4.9)</td>
<td>2.5 (8.2)</td>
<td>2 (6.6)</td>
<td>4 (141)</td>
<td>4.4 (155)</td>
<td>6.3 (90)</td>
<td></td>
</tr>
<tr>
<td>LC2A060SIL</td>
<td>6</td>
<td>2.2 (7.2)</td>
<td>3.6 (11.8)</td>
<td>2.7 (8.9)</td>
<td>5.2 (184)</td>
<td>4.4 (155)</td>
<td>6.3 (90)</td>
<td></td>
</tr>
<tr>
<td>LC2A080DIL</td>
<td>8</td>
<td>1.8 (5.9)</td>
<td>3.5 (11.5)</td>
<td>2.2 (7.2)</td>
<td>4.4 (155)</td>
<td>4.4 (155)</td>
<td>6.3 (90)</td>
<td></td>
</tr>
<tr>
<td>LC2A120DIL</td>
<td>12</td>
<td>1.1 (3.6)</td>
<td>1.8 (5.9)</td>
<td>1.3 (4.3)</td>
<td>5 (177)</td>
<td>4.4 (155)</td>
<td>6.3 (90)</td>
<td></td>
</tr>
<tr>
<td>LC2A180TIL</td>
<td>18</td>
<td>0.7 (2.3)</td>
<td>1.2 (3.9)</td>
<td>0.9 (3)</td>
<td>5 (177)</td>
<td>4.4 (155)</td>
<td>6.3 (90)</td>
<td></td>
</tr>
<tr>
<td>LC2A250QIL</td>
<td>25</td>
<td>0.5 (1.6)</td>
<td>0.9 (3)</td>
<td>0.6 (2)</td>
<td>5 (177)</td>
<td>4.4 (155)</td>
<td>6.3 (90)</td>
<td></td>
</tr>
</tbody>
</table>

(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).
Chain Container Dimensions for 9m (30 ft) standard lift

<table>
<thead>
<tr>
<th>Model</th>
<th>U1 (mm)</th>
<th>U2 (mm)</th>
<th>U3 (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC2A060S</td>
<td>570 (22.4)</td>
<td>860 (33.9)</td>
<td>315 x 315 (12.4 x 12.4)</td>
</tr>
<tr>
<td>LC2A120D</td>
<td>600 (23.6)</td>
<td>1060 (41.7)</td>
<td>315 x 315 (12.4 x 12.4)</td>
</tr>
<tr>
<td>LC2A180T</td>
<td>615 (24.2)</td>
<td>1060 (41.7)</td>
<td>550 x 400 (21.7 x 15.7)</td>
</tr>
<tr>
<td>LC2A250Q</td>
<td>600 (23.6)</td>
<td>1060 (41.7)</td>
<td>550 x 400 (21.7 x 15.7)</td>
</tr>
</tbody>
</table>

(1) Chain containers are available with many other dimensions. Please contact your sales representative for details.
## How to Order

<table>
<thead>
<tr>
<th>Series</th>
<th>Power Type</th>
<th>Range Type</th>
<th>Control Type</th>
<th>Lift</th>
<th>Control</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC2</td>
<td>A Air</td>
<td>I Industrial</td>
<td>P Pendant</td>
<td>3M 3 m std.</td>
<td>2 xx</td>
<td></td>
</tr>
</tbody>
</table>

- **Options**
  - A Air
  - B Large chain bucket.
  - C XXL chain bucket.
  - D Large chain bucket.
  - J Airline accessories (1)
  - K Cast iron pendant.
  - 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.

### Capacity & falls of chain
- 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
- 160 18 t, triple falls
- 250Q 25 t, quadruple falls

### Suspension
- LVU* Vane motor rigid universal trolley (flat or tapered beam) 1.5 to 8 t.
- LVE* Vane motor rigid trolley (flat beam) 12 to 25 t.
- LVN* Vane motor rigid trolley (tapered beam) 12 to 25 t.
- LRU* Gear motor rigid universal trolley (flat or tapered beam) 6 and 8 t.
- LRE* Gear motor rigid trolley (flat beam) 12 to 25 t.
- LRN* Gear motor rigid trolley (tapered beam) 12 to 25 t.

* Add the letter “R” for rack & pinion configuration (e.g. LRER). Only available for gear motor trolleys, or for LC2A015SI, LC2A030DI, LC2A040SI with vane motor.

### Control
- 2 1 motor pendant
- 3 2 motor pendant

**LC2 Liftchain Series 2nd Generation**

### Range Type
- LVU* Vane motor rigid universal trolley
- LVE* Vane motor rigid trolley
- LVN* Vane motor rigid trolley
- LRU* Gear motor rigid universal trolley
- LRE* Gear motor rigid trolley
- LRN* Gear motor rigid trolley

### Notes
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 pendant 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 pendant.
   - In addition for geared trolleys, bronze coated hand wheel with brass hand guide.

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