The LC3 sets the standard for vertical lifting columns to high-end medical applications. This compact lifting column fulfils the market requirements for a solid and stable lifting column. High speed and advanced memory options ensure fast and easy positioning of the application. The smooth design with cables through the column make it very cleaning friendly. The LC3 moves very quietly even with substantial loads.

**Features and options**
- Load in push: 4000 N, 5000 N, 6000 N
- Load in pull: 4000 N
- Profile colour: Anodised aluminium
- Top and bottom plate colour: Zink grey
- Protection class: IPX4 standard, IPX6 optional
- Motor: 24 V DC
  Type G to be used with LINAK control box
  Type B to be used with customer supplied control box
- Stroke length: 400–700 mm in steps of 50 mm, in steps of 1 mm on request.
  Stroke length less than 400 mm on request
- Built-in dimensions: See built-in dimension matrix
  \(\frac{1}{2}S + 120 \text{ mm}, \text{ min BID 320 or } \frac{1}{2}S + 240 \text{ mm, min BID 440}\)
- Positioning options: Dual Hall, Potentiometer
- Noise level: 50 dB (A)
- Weight: 16.4 Kg – BID 320
  20.0 Kg – BID 440
- Safety nut: Standard
- Built-in end stop switch:
  - Signal switch for LINAK CO Control Boxes
  - Power switch with G motor for CBJC
  - Power switch for customer supplied control box
- Safety factor: Push: SF 5, Pull: SF 5
- Dynamic bending moment: Up to 1400 Nm
- Static bending moment: Up to 3000 Nm
- Protective grounding cable: Optional
- Cables through the column: Mains, hand control, motor cable
- Mounting directions: Large profile down or Large profile up
- Connection of motor cable: Fixed or detachable
- Mounting of accessory: Mounting holes for bracket on request

**Usage**
- Duty cycle: 10%, 2 minutes continuous use followed by 18 minutes not in use
- Operation temperature: +5 °C to + 40 °C
- Storage temperature: -40 °C to + 70 °C
- Compatibility full performance: CO71
- Relative humidity: 20 % to 80 % at 30 °C - non-condensing
- Atmospheric pressure: 700 to 1060 hPa
- Approvals: IEC 60601-1
  IEC 60601-1-6
  ANSI/AAMI ES60601-1
  CAN/CSA-C22.2 No. 60601-1
### Installation dimensions

**Standard profile vs stroke length**

<table>
<thead>
<tr>
<th></th>
<th>Stroke length: 400 - 700 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>BID at stroke</td>
<td>400</td>
</tr>
<tr>
<td>S/2 + 240 mm Heavy duty</td>
<td>440</td>
</tr>
<tr>
<td>S/2 + 120 mm Standard</td>
<td>320</td>
</tr>
</tbody>
</table>

**Built-in dimensions**

<table>
<thead>
<tr>
<th>Stroke length: 200 - 400 mm</th>
<th>Stroke length: 401 - 700 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>S/2 + 240 mm</td>
<td>Min. 440</td>
</tr>
<tr>
<td>S/2 + 120 mm</td>
<td>Min. 320</td>
</tr>
</tbody>
</table>

Example special dimensions: $S = 558$ mm, BID = 399, S/2 + 120 mm

Minimum built-in dimension is 320 mm due to the motor housing and the design of the lifting column.

### Static bending moment (Nm)

<table>
<thead>
<tr>
<th></th>
<th>Push force (N)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4000</td>
</tr>
<tr>
<td>S/2 + 120 mm Standard</td>
<td>1000 Nm</td>
</tr>
<tr>
<td>S/2 + 240 mm Heavy duty</td>
<td>3000 Nm</td>
</tr>
</tbody>
</table>
**LC3**

Ordering example:

Lifting Column type: 3

Spindel pitch: 100

Stroke length: 400

Option:

<table>
<thead>
<tr>
<th>ABCD</th>
<th>Count Max.</th>
<th>Please notice that max. sum of options is 2*</th>
</tr>
</thead>
</table>
| A | T = Top entry motor supply  
S = Side entry motor supply | 0 | 0 |
| B | 0 = None  
1 = Minilift through  
2 = HB Through  
3 = Side entry motor supply, cable length 500 mm  
4 = Side entry motor supply, cable length 1500 mm  
5 = Side entry motor supply, cable length 80 mm | 0 | 1 |
| C | 0 = None  
1 = Minilift through  
2 = HB Through  
3 = Mains through 1, Female connection top entry  
4 = Mains through 2, Female connection side entry | 0 | 1 |
| D | 0 = No Earth profile  
1 = Earth profile | 0 | 1 |

Feedback:

| 00 | 00 = None  
OH = Dual Hall digital (only possible with power switch  
OM = Dual Hall, encoded (only possible with encoded switch)  
OP = Potentiometer (only possible with power switch) | 0 |

Installation dimension: 0320

Part:

0 = 3 part column 1/2s + 120 Min BID 320  
1 = 3 part column 1/2s+240 min BID 440

Motor type:

B = 24 VDC to be used if customer supplied control box  
G = 24 VDC to be used if LINAK control box – CD71, CBIC

Endstop:

0 = Power switch  
1 = Encoded

Mounting direction:

1 = Top plate up  
2 = Top plate down

IP degree:

4 = IPX4  
6 = IPX6 (top plate down)

Colour:

* = Alu

| 0 |

| 0 |

| 0 |

| 0 |

Chosen item number: LC3100400510000032008014-000
LC3 Dimensions:

LC3 3-stage
### Cable connections overview

<table>
<thead>
<tr>
<th>Variant</th>
<th>Top plate</th>
<th>Side entry</th>
<th>Model view</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>T000</strong></td>
<td><img src="image1" alt="Connection layout" /></td>
<td><img src="image2" alt="Connection layout" /></td>
<td><img src="image3" alt="Model view" /></td>
</tr>
<tr>
<td>Connections</td>
<td>5: Motor</td>
<td>3: Minifit through</td>
<td>Including protective grounding cable</td>
</tr>
<tr>
<td><strong>T001</strong></td>
<td><img src="image4" alt="Connection layout" /></td>
<td><img src="image5" alt="Connection layout" /></td>
<td><img src="image6" alt="Model view" /></td>
</tr>
<tr>
<td>Connections</td>
<td>5: Motor</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>T100</strong></td>
<td><img src="image7" alt="Connection layout" /></td>
<td><img src="image8" alt="Connection layout" /></td>
<td><img src="image9" alt="Model view" /></td>
</tr>
<tr>
<td>Connections</td>
<td>5: Motor</td>
<td>3: Minifit through</td>
<td></td>
</tr>
<tr>
<td><strong>T200</strong></td>
<td><img src="image10" alt="Connection layout" /></td>
<td><img src="image11" alt="Connection layout" /></td>
<td><img src="image12" alt="Model view" /></td>
</tr>
<tr>
<td>Connections</td>
<td>5: Motor</td>
<td>3: HB through</td>
<td></td>
</tr>
</tbody>
</table>

- **T000**: Connections 5: Motor, 6: Minifit through
- **T001**: Connections 5: Motor
- **T100**: Connections 5: Motor, 3: Minifit through
- **T200**: Connections 5: Motor, 6: HB through

Drawing no.: 1002W9005
T030
Connections
5: Motor
6: Mains through 1
Female connection top entry,
males connection side entry
3: Mains through 1
Female connection top entry,
males connection side entry

T040
Connections
5: Motor
6: Mains through 2
Male connection top entry,
female connection side entry
3: Mains through 2
Male connection top entry,
female connection side entry

T101
Connections
5: Motor
6: Minifit through
3: Minifit through
Including protective grounding cable
<table>
<thead>
<tr>
<th>Model</th>
<th>Connections</th>
<th>5: Motor</th>
<th>6: Mains through</th>
<th>3: Mains through</th>
<th>Include protective grounding cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>T201</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>T031</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>T041</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### T110

**Connections**

<table>
<thead>
<tr>
<th>5: Motor</th>
<th>3: Minifit through (side)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6: Minifit through (top)</td>
<td>4: Minifit through (side)</td>
</tr>
<tr>
<td>7: Minifit through (top)</td>
<td></td>
</tr>
</tbody>
</table>

### T120

**Connections**

<table>
<thead>
<tr>
<th>5: Motor</th>
<th>3: HB through</th>
</tr>
</thead>
<tbody>
<tr>
<td>6: HB through</td>
<td>4: Minifit through</td>
</tr>
<tr>
<td>7: Minifit through</td>
<td></td>
</tr>
</tbody>
</table>
T220

Connections
5: Motor
6: HB through (top)  3: HB through (side)
7: HB through (top)  4: HB through (side)

T130

Connections
5: Motor
6: Mains through 1  3: Mains through 1
Female connection top entry,  Female connection top entry,
male connection side entry   male connection side entry
7: Minifit through
4: Minifit through
<table>
<thead>
<tr>
<th>Connections</th>
<th>T140</th>
<th>T230</th>
</tr>
</thead>
<tbody>
<tr>
<td>5: Motor</td>
<td>5: Motor</td>
<td>5: Motor</td>
</tr>
<tr>
<td>6: Mains through 2</td>
<td>Male connection top entry, female connection side entry</td>
<td>6: Mains through 1</td>
</tr>
<tr>
<td>7: Minifit through</td>
<td>7: HB through</td>
<td>7: HB through</td>
</tr>
<tr>
<td>3: Mains through 2</td>
<td>Male connection top entry, female connection side entry</td>
<td>3: Mains through 1</td>
</tr>
</tbody>
</table>

**T140 Diagram:**
- Connections diagram for T140 showing the connections for Motor, Mains, and Minifit.

**T230 Diagram:**
- Connections diagram for T230 showing the connections for Motor, Mains, and HB.
T240

Connections
5: Motor
6: Mains through 2
   Male connection top entry,
   female connection side entry
7: HB through

3: Mains through 2
   Male connection top entry,
   female connection side entry
4: HB through

S300

Connections
3: Motor supply
   Cable length 500 mm

S400

Connections
3: Motor supply
   Cable length 1500 mm
<table>
<thead>
<tr>
<th></th>
<th>Connections</th>
<th>3: Motor supply</th>
<th>Including protective grounding cable</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>S500</strong></td>
<td></td>
<td>Cable length 80 mm</td>
<td></td>
</tr>
<tr>
<td><strong>S301</strong></td>
<td></td>
<td>Cable length 500 mm</td>
<td>Including protective grounding cable</td>
</tr>
<tr>
<td><strong>S401</strong></td>
<td></td>
<td>Cable length 1500 mm</td>
<td>Including protective grounding cable</td>
</tr>
<tr>
<td>Model</td>
<td>Connections</td>
<td>Motor Supply</td>
<td>Cable Length</td>
</tr>
<tr>
<td>-------</td>
<td>-------------</td>
<td>--------------</td>
<td>--------------</td>
</tr>
<tr>
<td>S501</td>
<td>3: Motor supply</td>
<td>80 mm</td>
<td>Including protective grounding cable</td>
</tr>
<tr>
<td>S310</td>
<td>6: Minifit through</td>
<td>500 mm</td>
<td>3: Motor supply</td>
</tr>
<tr>
<td>S320</td>
<td>6: HB through</td>
<td>500 mm</td>
<td>3: Motor supply</td>
</tr>
</tbody>
</table>
| Connections | 6: Minifit through | 3: Motor supply  
Cable length 1500 mm  
4: Minifit through |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>S410</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| S420        | 6: HB through     | 3: Motor supply  
Cable length 1500 mm  
4: HB through |
| S510        | 6: Minifit through | 3: Motor supply  
Cable length 80 mm  
4: Minifit through |

Connections: 1, 2, 3, 4, 5, 6, 7
**S520**

Connections

6: HB through

3: Motor supply  
   Cable length 80 mm

4: HB through

---

**S330**

Connections

6: Mains through 1  
   Female connection top entry,  
   male connection side entry

3: Motor supply  
   Cable length 500 mm

4: Mains through 1  
   Female connection top entry,  
   male connection side entry
**S340**

Connections:

6: Mains through 2  
Male connection top entry,  
female connection side entry  

3: Motor supply  
Cable length 500 mm  

4: Mains through 2  
Male connection top entry,  
female connection side entry  

---

**S430**

Connections:

6: Mains through 1  
Female connection top entry,  
male connection side entry  

3: Motor supply  
Cable length 1500 mm  

4: Mains through 1  
Female connection top entry,  
male connection side entry
**S440**

6: Mains through 2  
Male connection top entry,  
female connection side entry

3: Motor supply  
Cable length 1500 mm  
4: Mains through 2  
Male connection top entry,  
female connection side entry

---

**S530**

6: Mains through 1  
Female connection top entry,  
male connection side entry

3: Motor supply  
Cable length 80 mm  
4: Mains through 1  
Female connection top entry,  
male connection side entry
Connections

6: Mains through 2
   Male connection top entry,
   female connection side entry

3: Motor supply
   Cable length 80 mm

4: Mains through 2
   Male connection top entry,
   female connection side entry
Speed, Load and current curves

Bending load curve including off center load
Load in push: 4000N, 5000N, 6000N, Built-in dimension: 1/2S+120.
Load in push: 4000 N, 5000 N, 6000 N – LC3 with stable power supply, type G-motor
Load in push: 4000N, 5000N, 6000N - LC3 in a system with CO71
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