Lifting Column BL1
Data sheet
The BL1 is a 3-part lifting column designed to be used for example in Hospital beds, Nursing Home beds, Treatment chairs, Couches and Dental chairs.

The lifting column is compact and has a long stroke length. The 3-part guidance enables an overlap between the individual profiles, which ensures a high degree of stability.

The lifting column has an open spindle actuator with a chain drive inside which is practically noiseless.

The BL1 is available with a cable integrated inside the column which enables connection of a hand control or a foot switch from the top or bottom of the column. Hereby the cables are hidden inside the column. It is possible to connect the control unit and motor cable at the top plate but only motor cable or control unit at the bottom plate. The integrated cable makes the column easy to fit into an aesthetic design of applications and easy to clean.

Among benefits are:
- Short installation dimension and long stroke length is possible
- High degree of stability
- Low noise level
- Exchangeable cables

Features & Options:
- Load in push: 2000 N
- Colour: Anodised aluminium
- Protection class: IPX6
- Motor: 24 V DC, 12 V DC
- Built-in dimensions:
  - Standard: 350 mm (+/-4) - stroke length 200 mm, 300 mm, 400 mm (+/-3)
  - Medium: 312 mm (+/-4) - stroke length 324 mm (+/-3)
  - Small: 274 mm (+/-4) - stroke length 248 mm (+/-3)
- Positioning options: Dual hall
- Noise level: 50 dB(A)
- Safety nut: Optional
- Built-in electrical limit switch: Yes
- Exchangeable cable: Minifit - minifit for the motor cable and 10 poled modular plug for hand control or foot switch
- Safety factor: >2.5
- Weight: BL1 Standard: 9.8 kg
  - BL1 Medium: 8.7 kg
  - BL1 Small: 8.0 kg
- Static bending moment: 500 Nm
- Dynamic bending moment: 250 Nm
- Protective grounding cable: Optional, for potential equalization between top- and bottom plate
- Connection of motor cable: Standard top plate or optional bottom plate
- Connection of control cable: Optional as cable through

Usage:
- Duty cycle: 10%, 2 minutes continuous use followed by 18 minutes not in use
- Usage temperature: + 5 °C to + 40 °C
- Storage temperature: Max 50 °C
- Compatibility: CB6 OBL, CB6 OBF, CB16 and CB20
### Technical specifications:

<table>
<thead>
<tr>
<th>Motor type</th>
<th>Spindle pitch (mm)</th>
<th>Push max. (N)</th>
<th>Pull max. (N)</th>
<th>Self-lock min. (N)</th>
<th>Bending moment max. (static) (Nm)</th>
<th>Bending moment max. (dynamic) (Nm)</th>
<th>Built-in-dimension (mm)</th>
<th>Stroke length (mm)</th>
<th>Max. Static pull (N)</th>
</tr>
</thead>
<tbody>
<tr>
<td>24V</td>
<td>4</td>
<td>2000</td>
<td>0</td>
<td>2000</td>
<td>250</td>
<td></td>
<td>350</td>
<td>300</td>
<td>200</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>400</td>
<td>312</td>
<td>324</td>
<td>274</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>248</td>
<td>350</td>
<td>300</td>
<td>200</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>248</td>
<td>312</td>
<td>324</td>
<td>274</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>248</td>
<td>274</td>
<td>248</td>
<td>274</td>
</tr>
<tr>
<td>12V</td>
<td>9</td>
<td>700</td>
<td>0</td>
<td>700</td>
<td>200 mm stroke = 1000 248 mm stroke = 500 300 mm stroke = 500 324 mm stroke = 500 400 mm stroke = 500</td>
<td>250</td>
<td>350</td>
<td>300</td>
<td>200</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>312</td>
<td>324</td>
<td>274</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>274</td>
<td>248</td>
<td>274</td>
</tr>
</tbody>
</table>

### Motor type

<table>
<thead>
<tr>
<th>Motor type</th>
<th>Spindle pitch (mm)</th>
<th>Typical speed 0 / full load (CB6 / CB16 OBL) (mm/s)</th>
<th>Typical speed 0 / full load (CB6 / CB16 OBF) (mm/s)</th>
<th>Typical speed 0 / full load (CB20) (mm/s)</th>
<th>Stroke (mm)</th>
<th>Typical current at full load 24V (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>24V</td>
<td>4</td>
<td>18</td>
<td>9</td>
<td>19</td>
<td>248</td>
<td>4.8 - 5</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>324</td>
<td>4.0 - 4.4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>400</td>
<td>3.8 - 4.0</td>
</tr>
</tbody>
</table>

### Motor type

<table>
<thead>
<tr>
<th>Motor type</th>
<th>Spindle pitch (mm)</th>
<th>Typical speed 0 / full load (12V stabilized power supply) (mm/s)</th>
<th>Typical current at full load 12V (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V</td>
<td>4</td>
<td>21</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>9</td>
<td>46</td>
<td>7</td>
</tr>
</tbody>
</table>
BL1
Ordering example:

A = 350 mm
B = 312 mm
C = 274 mm
D = 350 mm and HB Cable through Column (only possible with Motor option 1 or 2)
E = 312 mm and HB Cable through Column (only possible with Motor option 1 or 2)
F = 274 mm and HB Cable through Column (only possible with Motor option 1 or 2)

Built-in dimension:

Stroke:
200 mm, 300 mm, 400 mm (BID = 350 mm)
324 mm (BID = 312 mm)
248 mm (BID = 274 mm)

Motor:
1 = Standard 24V DC
2 = 12V DC
3 = Standard 24V DC Connection from bottom plate
4 = 12V DC Connection from bottom plate

Safety option:
0 = Standard
1 = Safety nut, push
2 = Standard with potential equalisation between top and bottom plate
3 = Safety nut, push, with potential equalisation between top and bottom plate

Colour:
A = Anodized aluminium
B = Anodized aluminium and painted top and bottom plate (RAL7035)
C = Anodized aluminium and el-zinc plated top- and bottom plate

Positionering:
1 = End stop
H = End stop and dual hall

IP degree:
1 = IPx6

Spindle:
4 = 4 mm pitch
9 = 9 mm pitch (12V DC only)

Type:
BL1

Blind plugs for the top plate are included if the motor option 3 or 4 is chosen

Options - top plate connections:
• Motor cable and hand control cable
• Motor cable
• No connections (motor cable in the bottom plate)

Options - bottom plate connections:
• Motor cable
• Hand control cable
• No connections (motor cable in the top plate)
Dimensions:

<table>
<thead>
<tr>
<th>BID</th>
<th>L (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>350 ± 4</td>
</tr>
<tr>
<td>B</td>
<td>312 ± 4</td>
</tr>
<tr>
<td>C</td>
<td>274 ± 4</td>
</tr>
</tbody>
</table>

Dimensions - BL1 with cable through:

<table>
<thead>
<tr>
<th>BID</th>
<th>L (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>350 ± 4</td>
</tr>
<tr>
<td>B</td>
<td>312 ± 4</td>
</tr>
<tr>
<td>C</td>
<td>274 ± 4</td>
</tr>
</tbody>
</table>
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For mounting instructions and guidance in usage, please see the relevant user’s manuals.
DESKLIFT™ DL5
Data sheet
DESKLIFT™ DL5

The DESKLIFT DL5 is a compact 2-part lifting column, which is a perfect choice for a wide range of different desk applications, especially in the office area. The DL5 has a compact motor housing, which is almost invisible in the tabletop construction. The column is very sturdy so a crossbar is not necessary. The DL5 has the same outer dimensions and mounting holes as the 3-part DL6 column, which make them compatible and they can be used in the same tabletop and table foot construction. The DL5 is available in several standard colours and lengths to fit into a wide range of desk designs.

The DL5 system is controlled by the DESKLINE® control box (CBD). No matter which box is preferred, they all ensure optimal parallel drive and a pleasant low noise level. The DL5 can be used as a single column or in a 2, 3 or 4 parallel system.

Features:
- Compact design where guide and actuator functions are an integrated unit
- Reinforced column and optimised motor housing design for extra strength and stability
- Plug mounted on the DL5 for connection to CBD4/CBD6S with a separate DESKLINE® motor cable
- Max. thrust 800 N per column
- Max. speed: 38 mm/s unloaded
- Standard installation dimension 645 mm or 445 mm
- Standard stroke length 500 mm or 300 mm
- Weight: 6.6 kg pr. column (DL500BN0500645)
- Dimensions column: 50 x 80 mm (outer profile) and 43,5 x 73,5 mm (inner profile)
- Dimension motor housing: 177 x 97 x 46 mm
- Bending moment: My = max. 150 Nm dynamic
- Colour: All parts black (RAL 9005), all parts silver grey (RAL 9006) or all parts white (RAL 9016), gloss 30
- Hall sensor enabling parallel drive with CBD4/CBD6S
- Mounting bracket for a crossbar in a parallel system (40 x 120 mm)
- Low noise level

Option
- Compatible with the Kick & Click mounting solution
- Available as DESKLIFT SetPack

Usage
- Single or 2, 3 or 4 parallel drive or even multi-paralle with up to 16 columns
- Duty cycle: 10% ~ 6 minutes per hour OR 2 minutes of continuous use at full load
- Ambient temperature: +10° to +40 °C
- Compatible with DESKLINE® control boxes CBD4/ CBD6S and all DESKLINE controls
- Approved according to EN 60335-1 and UL 962
- Storage and transport temperature: -10°C to +70°C
Technical specifications:

<table>
<thead>
<tr>
<th>Type</th>
<th>Max. Thrust pr. DL (N)</th>
<th>Self-lock pr. DL (N)</th>
<th>Speed at 0 load (mm/s)</th>
<th>Duty cycle (%)</th>
<th>Spindle pitch (mm)</th>
<th>Stroke length (mm)</th>
<th>Built-in length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DL5</td>
<td>800</td>
<td>800</td>
<td>38</td>
<td>10</td>
<td>20</td>
<td>500 / 300</td>
<td>645 / 445</td>
</tr>
</tbody>
</table>

The measurements above are made in connection with the control box CBD4/CBD6S.

Dimensions:
At a fully retracted length of only 645 mm ±4/-0 mm and a stroke length of 500 mm ± 2 mm it is possible for a standard system to obtain an adjustment interval of the table top of e.g. 680 – 1180 mm. Thus, the desk can be used for sitting as well as for standing type of work.
Dimensions, standard DL5 with bracket
Curves for DL5 800N (20 mm spindle) with CBD6S

2 x DL5/8/10/15 (equally loaded) with CBD6S

3 x DL5/8/10/15 (equally loaded) with CBD6S

4 x DL5/8/10/15 (equally loaded) with CBD6S
The above curves apply to a centrally placed load. At moment load there will be an increased friction in the columns, which will reduce the lifting force correspondingly.
All cables for creating a fully connected DESKLINE system must be ordered separately. We offer a range of different versions and lengths. To get information as ordering number, colour and length of the cables, please contact your local LINAK.
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For mounting instructions and guidance in usage, please see the relevant user’s manuals.
Lifting Column LP2
Data sheet
The LP2 range of vertical lifting columns is ideal where vertical positioning of substantial loads is required.
The design allows the LP2 range to be built in a complete motion control system simply by adding a suitable LINAK control box and handset.
Advanced design and high quality construction, the column is ideal for operation with up to a max. of 4 units and/or with a memory function.
The LP2 lifting column is the ideal choice for duties such as height adjustment on computer work stations, work benches or a wide selection of other duties.

Features:
• LP2 is a specially designed telescopic aluminium lifting column incorporating a LINAK® 24 V DC linear actuator
• It is designed to provide vertical lifting (push only) where simultaneous bending and torsion moments may occur
• LP2 lifting columns are available in 2 versions, the LP2-2 (small column) and the LP2-5 (large column)
• Thrust up to 6300 N with gas spring (push only)
• In each end of the column there is a black painted steel plate, in which there are 4 holes for the fastening of the column
• Robust anodised aluminium surface
• Extremely low noise level
• Elegant and compact design
• Cable: black 2,4 m straight supply fitted with jack-plug
• Standard protection class: IPX1
• Ambient temperature +5°C to +40°C
• Colour: anodised aluminium
• Duty cycle: 2/18; 2 minutes continuous use followed by 18 minutes not in use.
• LP2 is compatible with CB8, CB12 or CB14

Options:
• Reed-switch (for parallel and memory functions)
• Safety nut
• Mounting bracket on the side of the column. (E.g.: control boxes can be fastened directly to the lifting column)
• Gas spring for increased lifting capacity (only LP2-5)
Technical specifications:

<table>
<thead>
<tr>
<th>Type</th>
<th>Push max.</th>
<th>Push max. with spring</th>
<th>Typical speed at 0/full load (mm/s)</th>
<th>Typical amp. at 0/full load (24V)</th>
<th>Build-in &quot;I&quot;</th>
<th>Build-in &quot;S&quot;</th>
<th>Profile No.</th>
<th>Max. bending Moment* (static values)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(N)</td>
<td>(N)</td>
<td>(mm/s)</td>
<td>(mm)</td>
<td>(mm)</td>
<td>(mm)</td>
<td></td>
<td>Mx (Nm)</td>
</tr>
<tr>
<td>LP2-2.1 (28500-xxxxx10x)</td>
<td>2600</td>
<td>-</td>
<td>9/6.2</td>
<td>1/4.4</td>
<td>1</td>
<td>405</td>
<td>505</td>
<td>630</td>
</tr>
<tr>
<td>LP2-2.2 (28200-4xxxx10x)</td>
<td>1600</td>
<td>-</td>
<td>21/13</td>
<td>1.5/4.4</td>
<td>1</td>
<td>405</td>
<td>505</td>
<td>630</td>
</tr>
<tr>
<td>LP2-5.1 (28500-xxxxx10x)</td>
<td>2600</td>
<td>3300</td>
<td>9/6.2</td>
<td>1/4.4</td>
<td>1</td>
<td>405</td>
<td>505</td>
<td>630</td>
</tr>
<tr>
<td>LP2-5.2 (30100-xxxxx40x)</td>
<td>3600</td>
<td>4300</td>
<td>6/5</td>
<td>1/4.5</td>
<td>1</td>
<td>405</td>
<td>505</td>
<td>630</td>
</tr>
<tr>
<td>LP2-5.3 (30200-xxxxx40x)</td>
<td>1600</td>
<td>2300</td>
<td>12/10.5</td>
<td>1/4</td>
<td>1</td>
<td>405</td>
<td>505</td>
<td>630</td>
</tr>
<tr>
<td>LP2-5.4 (30200-4xxxxx40x(3)13000-5000040x)</td>
<td>1000</td>
<td>-</td>
<td>18/15</td>
<td>1/4</td>
<td>1</td>
<td>405</td>
<td>505</td>
<td>630</td>
</tr>
<tr>
<td>LP2-5.5 (30200-xxxxx40x)</td>
<td>5600</td>
<td>6300</td>
<td>7/5</td>
<td>1.2/5</td>
<td>1</td>
<td>405</td>
<td>505</td>
<td>630</td>
</tr>
<tr>
<td>LP2-5.6 (28200-4xxxxx10x(2)18000-5000010x)</td>
<td>1600</td>
<td>2300</td>
<td>21/13</td>
<td>1.6/4.4</td>
<td>1</td>
<td>405</td>
<td>505</td>
<td>630</td>
</tr>
</tbody>
</table>

B = Includes brake
G = Includes gas spring
AS = Stroke length for LP with KAS actuator
For more actuator information see the relevant actuator ordering example

- Speed values: average values, measured with column and stable power supply, without gas spring mounted.
- The speeds mentioned above are with load on the Z-axis of the LP.
- The column can only be loaded with the maximum bending moment over the first 80% of the stroke.
- Above this 80% figure, the maximum bending moment will be reduced to 50%.
- The column must only be mounted with the large profile uppermost.
LP2
Ordering example:

<table>
<thead>
<tr>
<th>LP</th>
<th>2</th>
<th>5</th>
<th>A00</th>
<th>0</th>
<th>0</th>
<th>200</th>
<th>405</th>
</tr>
</thead>
</table>

Installation dimensions (mm) : 405, 505, 630, 670

Stroke length (mm) standard: 150, 200, 250, 300, 400, 425, 465, 500
Stroke length with brake + safety nut = 150, 195, 250, 295, 400, 420, 465, 495

0 = standard
G = with gas spring

Reserved for:
0 = standard
B = brake
C = brake + safety nut
M = safety nut

First digit
A = 2.1/5.1 = 285xx0-xxxxx10x
B = 2.2/5.6 = 282xx0-4xxxx10x
C = 5.2 = 301xx0-xxxxx40x
D = 5.3 = 302xx0-xxxxx40x
E = 5.4 = 303xx0-xxxxx40x
F = 5.4 = 303xx0-4xxxx40x
G = 5.5 = 30Kxx0-xxxxx40x
H = 5.5 = 30Kxx0-1xxxx40x

Second + third digit
00 = standard
R0 = with reed

2 = profile 1 og 2
5 = profile 4 og 5

2 = 2-divided

Mounting brackets have to be ordered separately.
Order number: 0578006 (including 2 mounting screws)

Various other information:
Tolerances for the lifting column:

Stroke: +/- 4mm
Installation dim. +/- 5 mm

The cleaners and disinfectants must not be highly alkaline or acidic (ph value 6-8)
Depending on the choice of control box it is possible to operate 2 lifting columns in parallel and save up to 3 memory positions.
If parallel drive or memory function is required the lifting column has to be ordered with reed switch.
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