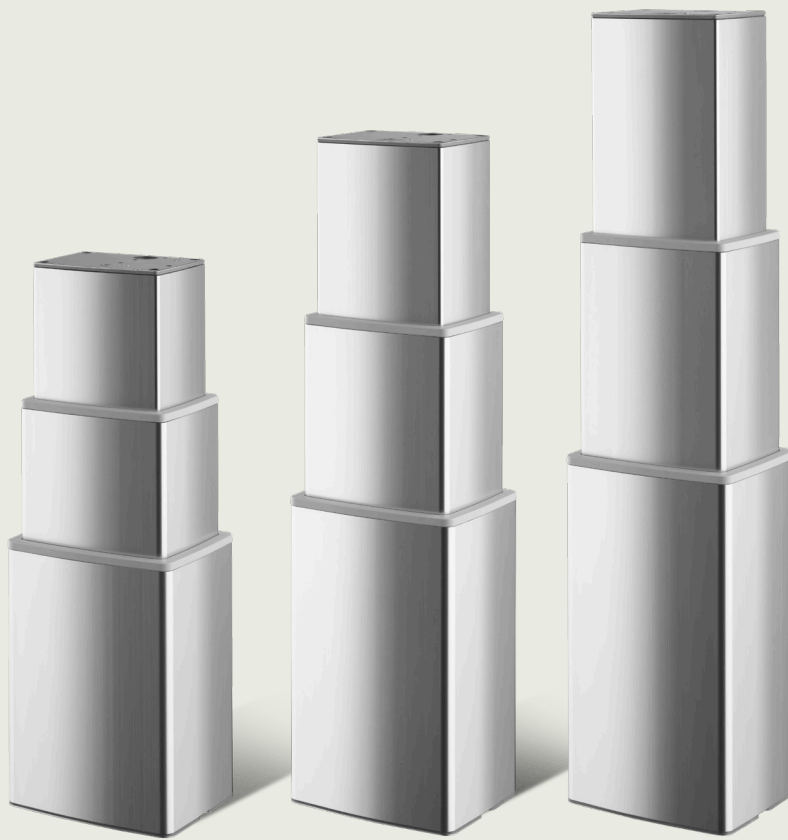


# Lifting Column BL1 Data Sheet



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## Introduction



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.

It is possible to connect the motor cable at the top 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 and 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 200mm, 300mm, 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) (At rated voltage and with no load in accordance with EN ISO 3743-1)
Safety nut:	Optional
Built-in electrical limit switch:	Yes
Exchangeable cable:	Mini-Fit - Mini-Fit for the motor cable
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 equalisation between top and bottom plate
Connection of motor cable:	Standard top plate or optional bottom plate

## Usage

Duty cycle:	10%, 2 minutes continuous use followed by 18 minutes not in use
Operation temperature:	+5 °C to +40 °C
Storage temperature:	-10 °C to +50 °C
Compatibility:	For detailed compatibility, please contact LINAK.
Relative humidity:	20% to 80% – non-condensing
Atmospheric pressure:	700 to 1060 hPa
Meters above sea level:	Max. 3000 meters
Approvals	IEC60601-1, ANSI/AAMI ES60601-1 CAN/CSA-22.2 No 60601-1 IEC 60601-1-6 IEC 60601-1-2

## Technical specifications

Motor type	Spindle pitch (mm)	Push max. (N)	Pull max. (N)	*Self-lock min. (N)	Bending moment max. (static) (Nm)	Bending moment max. (dynamic) (Nm)	Built-in-dimension (mm)	Stroke length (mm)	Max. Static pull (N)
24V	4	2000	0	2000	200mm stroke = 1000 248mm stroke = 500 300mm stroke = 750 324mm stroke = 500 400mm stroke = 500	250	350	400	1000
								300	
								200	
							312	324	
								274	
350	400								
	300								
	200								
312	324								
	274	248							
12V	9	700	0	700			350	400	700
								300	
								200	
							312	324	
								274	

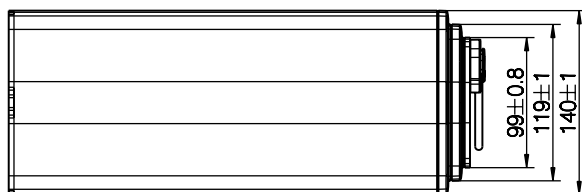
\*Linak control boxes are designed to short-circuit the motor terminals (poles) of the actuator (s), when the actuator(s) are not running. This solution gives the actuator (s) a higher self-locking ability.

\*\* For further specifications, see speed and current curves.

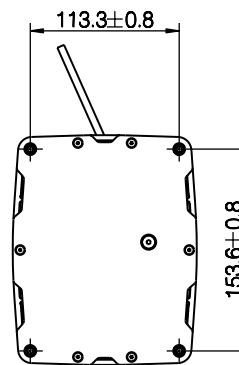
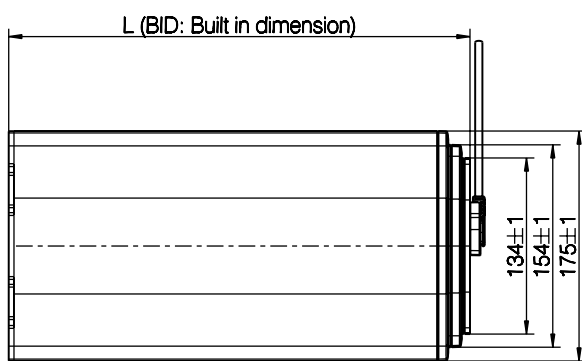
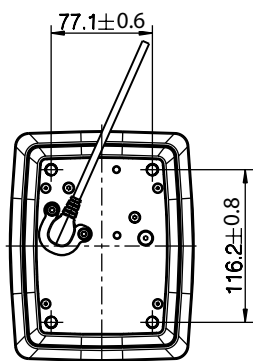
## Ordering example

<b>BL1 4 1 H A 0 1 400 A</b>	<p><b>Built-in dimension:</b> A = 350 mm B = 312 mm C = 274 mm</p> <p><b>Stroke:</b> 200 mm, 300 mm, 400mm (BID=350 mm) 324 mm (BID=312 mm) 248 mm (BID=274 mm)</p> <p><b>Motor:</b> 1 = Standard 24 V DC from top plate 2 = 12 V DC from top plate</p> <p><b>Safety option:</b> 0 Without safety nut 1 Standard with safety nut, push 2 With potential equalisation between top and bottom plate 3 Safety nut, push, with potential equalisation between top and bottom plate</p> <p><b>Colour:</b> A = Anodised alu. and standard top-and bottomplate C = Anodised alu. and el-zinc plated top-and bottomplate</p> <p><b>Positionering:</b> 1 = End stop H = End stop and dual Hall</p> <p><b>IP degree:</b> 1 = IPX6</p> <p><b>Spindle:</b> 4 = 4 mm pitch 9 = 9 mm pitch (12 V DC only)</p> <p><b>Actuator type:</b> BL1</p>
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# Dimensions



BID	L (mm)
A	350±4
B	312±4
C	274±4



Drawing no.: 0807000

# Contacts

## FACTORIES

**Denmark - Headquarters**  
**LINAK A/S**  
 Phone: +45 73 15 15 15  
 Fax: +45 74 45 80 48  
 Fax (Sales): +45 73 15 16 13  
 Web: www.linak.com

**China**  
**LINAK (Shenzhen) Actuator Systems, Ltd.**  
 Phone: +86 755 8610 6656  
 Phone: +86 755 8610 6990  
 Web: www.linak.cn

**Slovakia**  
**LINAK Slovakia s.r.o.**  
 Phone: +421 51 7563 444  
 Web: www.linak.sk

**Thailand**  
**LINAK APAC Ltd.**  
 Phone: +66 33 265 400  
 Web: www.linak.com

**USA**  
**LINAK U.S. Inc.**  
**Americas Headquarters**  
 Phone: +1 502 253 5595  
 Fax: +1 502 253 5596  
 Web: www.linak-us.com  
 www.linak-latinamerica.com

## SUBSIDIARIES

**Australia**  
**LINAK Australia Pty. Ltd**  
 Phone: +61 3 8796 9777  
 Fax: +61 3 8796 9778  
 E-mail: sales@linak.com.au  
 Web: www.linak.com.au

**Austria**  
**LINAK Zweigniederlassung - Österreich (Wien)**  
 Phone: +43 (1) 890 7446  
 Fax: +43 (1) 890 744615  
 E-mail: info@linak.de  
 Web: www.linak.at - www.linak.hu

**Belgium**  
**LINAK Actuator-Systems NV/SA (Belgium & Luxembourg)**  
 Phone: +32 (0)9 230 01 09  
 E-mail: beinfo@linak.be  
 Web: www.linak.be - www.fr.linak.be

**Brazil**  
**LINAK Do Brasil Comércio De Atuadores Ltda.**  
 Phone: +55 (11) 2832 7070  
 Fax: +55 (11) 2832 7060  
 E-mail: info@linak.com.br  
 Web: www.linak.com.br

**Canada**  
**LINAK Canada Inc.**  
 Phone: +1 502 253 5595  
 Fax: +1 416 255 7720  
 E-mail: info@linak.ca  
 Web: www.linak-us.com

**Czech Republic**  
**LINAK C&S s.r.o.**  
 Phone: +42 058 174 1814  
 Fax: +42 058 170 2452  
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**Denmark - International**  
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 Web: www.linak.com

**Denmark - Sales**  
**LINAK Danmark A/S**  
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 Fax: +45 86 82 90 51  
 E-mail: linak@linak-silkeborg.dk  
 Web: www.linak.dk

**Finland**  
**LINAK OY**  
 Phone: +358 10 841 8700  
 E-mail: linak@linak.fi  
 Web: www.linak.fi

**France**  
**LINAK France E.U.R.L**  
 Phone: +33 (0) 2 41 36 34 34  
 Fax: +33 (0) 2 41 36 35 00  
 E-mail: linak@linak.fr  
 Web: www.linak.fr

**Germany**  
**LINAK GmbH**  
 Phone: +49 6043 9655 0  
 Fax: +49 6043 9655 60  
 E-mail: info@linak.de  
 Web: www.linak.de

**India**  
**LINAK A/S India Liaison Office**  
 Phone: +91 120 4531797  
 Fax: +91 120 4786428  
 E-mail: info@linak.in  
 Web: www.linak.in

**Ireland**  
**LINAK UK Limited (Ireland)**  
 Phone: +44 (0)121 544 2211  
 Fax: +44 (0)121 544 2552  
 +44 (0)796 855 1606 (UK Mobile)  
 +35 387 634 6554 (Rep.of Ireland Mobile)  
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 Web: www.linak.co.uk

**Italy**  
**LINAK ITALIA S.r.l.**  
 Phone: +39 02 48 46 33 66  
 Fax: +39 02 48 46 82 52  
 E-mail: info@linak.it  
 Web: www.linak.it

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**LINAK K.K.**  
 Phone: 81-45-533-0802  
 Fax: 81-45-533-0803  
 E-mail: linak@linak.jp  
 Web: www.linak.jp

**Malaysia**  
**LINAK Actuators Sdn. Bhd.**  
 Phone: +60 4 210 6500  
 Fax: +60 4 226 8901  
 E-mail: info@linak-asia.com  
 Web: www.linak.my

**Netherlands**  
**LINAK Actuator-Systems B.V.**  
 Phone: +31 76 5 42 44 40 / +31 76 200 11 10  
 E-mail: info@linak.nl  
 Web: www.linak.nl

**New Zealand**  
**LINAK New Zealand Ltd**  
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 Web: www.linak.pl

**Republic of Korea**  
**LINAK Korea Ltd.**  
 Phone: +82 2 6231 1515  
 Fax: +82 2 6231 1516  
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 Web: www.linak.kr

**Slovakia**  
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**Spain**  
**LINAK Actuadores, S.L.U**  
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**Sweden**  
**LINAK Scandinavia AB**  
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**Taiwan**  
**LINAK (Shenzhen) Actuator systems Ltd.**  
**Taiwan Representative office**  
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