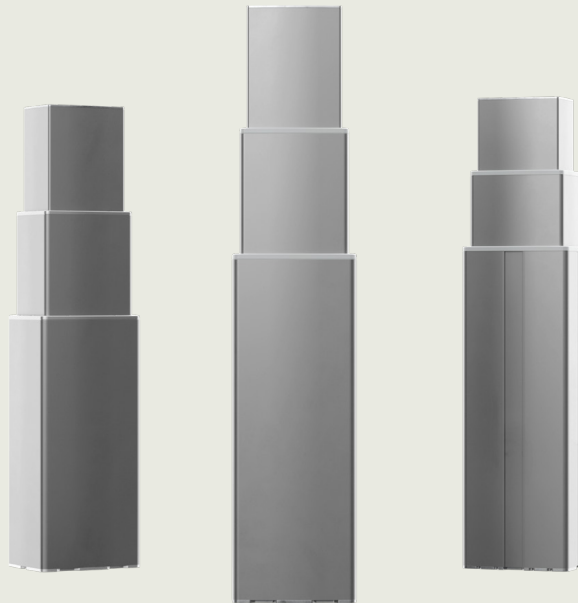


Lifting Column – LC1

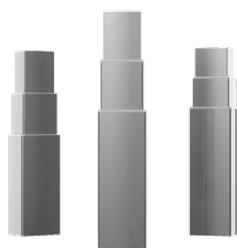
Data Sheet



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Introduction



The lifting column LC1 is tailor-made for use in medical applications and adds a powerful and stable new option to the LC family of columns. The 3-stage telescopic column has many customisation possibilities, both as to height and performance, and offers a more precise choice of movement within the range of up to 4,000 N.

Applications where the LC1 adds real value include treatment chairs, couches, hospital beds, incubators and stretchers.

LC1 is the perfect choice of lifting column for applications and environments where precise operation and high performance are mandatory and offers the following features:

- Perfect choice of power and speed
- High bending moment to ensure a stable and reliable movement
- Powerful push factor up to 4,000 N or pull factor up to 2,000 N
- Built-in dimension options from 275-700 mm and stroke lengths from 200 to 900 mm
- Smooth and cleaning-friendly design
- Choice of profile colour (alu, black and white)
- Cable through options



Features and options

Load in push: Up to 4,000 N

Load in pull: Max. 2,000 N

Profile colour and colour of frame: Anodised aluminium, painted black (RAL 9005) or painted white (RAL 9016)

Aluminium	Standard version and Dovetail = grey frame Reinforced = aluminium frame
Black profile (RAL 9005)	Standard version and Dovetail = black frame Reinforced = aluminium frame
White profile (RAL 9016)	Standard version and Dovetail = grey frame Reinforced = aluminium frame

Top and bottom plate colour: Zinc grey

Protection class: IPX0 - if mounted with top plate down

IPX6 - if mounted with top plate up

Motor: 24 V DC type G

Stroke length options: 200, 250, 300, 324, 400, 500, 650, 665, 700, 800, 900 mm

Other stroke lengths on request

Stroke length tolerance: +4/-5

Profile characteristics/
profile options: LC1 Standard (LC1-S)

LC1 Reinforced (LC1-R) - useful where higher bending is needed

LC1 Dovetail (LC1-D)

prepared for mounting bracket on the side of the column (control boxes can for instance be fixed directly on the lifting column)

Built-in dimension: Standard profiles:
 BID: 275, 312, 350, 400, 518, 560, 600, 700 mm*

Reinforced profiles:

BID 350 mm*

Dovetail profiles:

BID: 518 mm*

BID: 560 mm*

BID tolerance: +/-3

Positioning options:
(feedback) Dual Hall (digital) or dual Hall (encoded)

Sound level: ≤ 50 dB (A)

Weight: 9.2 kg when BID 350 mm, stroke length 400 mm

Safety nut: Standard



Safety factor:	LC1 profiles: - push safety factor 2.5 - pull safety factor 5
Dynamic bending moment:	For LC1-S - ½ S + 150 mm: 350 Nm For LC1-R - ½ S + 150 mm: 500 Nm To obtain a higher bending moment, see section Bending Moment for further information.
Static bending moment:	For LC1-S - ½ S + 150 mm: 500 Nm For LC1-R - ½ S + 150 mm: 900 Nm To obtain a higher bending moment, see section Bending Moment for further information.
Connection of motor cable:	Fixed or exchangeable
Protective grounding cable:	Optional
Cables through the column:	Hand control, motor cable**

* Other built-in stroke lengths are available on request (min. BID 250 mm)

** It is possible to specify one extra cable through the column, for instance earth profile, giving a max. count of 2.

Usage

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



Ordering example

	LC																																																					
Lifting Column type:	1																																																					
Spindel pitch:	060	060 = 6 mm (Max. 4,000 N) 100 = 10 mm (Max. 2,500 N)																																																				
Stroke length:	400	000 = For A Profiles: 200 - 900 mm. For B Profiles: 200- 400 mm. For C Profiles: 200 - 800 mm.																																																				
Option	T000	<table border="0"> <tr> <td></td> <td></td> <td>Count max.: 2</td> <td>Please notice max. sum of options is 2</td> </tr> <tr> <td>A =</td> <td>T= Top entry motor supply. Option B: 0, 1, 2</td> <td>0</td> <td></td> </tr> <tr> <td></td> <td>S= Side entry motor supply. Option B: 3, 5</td> <td>0</td> <td></td> </tr> <tr> <td>B =</td> <td>0 = None</td> <td>0</td> <td></td> </tr> <tr> <td></td> <td>1 = Mini-Fit through</td> <td>1</td> <td></td> </tr> <tr> <td></td> <td>2 = HB through</td> <td>1</td> <td></td> </tr> <tr> <td></td> <td>3 = Side entry motor supply, cable length 500 mm</td> <td>1</td> <td></td> </tr> <tr> <td></td> <td>5 = Side entry motor supply, cable length 80 mm</td> <td>1</td> <td></td> </tr> <tr> <td>C =</td> <td>0 = None</td> <td>0</td> <td></td> </tr> <tr> <td></td> <td>1 = Mini-Fit through</td> <td>1</td> <td></td> </tr> <tr> <td></td> <td>2 = HB through</td> <td>1</td> <td></td> </tr> <tr> <td>D =</td> <td>0 = No earth profile</td> <td>0</td> <td></td> </tr> <tr> <td></td> <td>1 = Earth profile</td> <td>1</td> <td></td> </tr> </table>			Count max.: 2	Please notice max. sum of options is 2	A =	T= Top entry motor supply. Option B: 0, 1, 2	0			S= Side entry motor supply. Option B: 3, 5	0		B =	0 = None	0			1 = Mini-Fit through	1			2 = HB through	1			3 = Side entry motor supply, cable length 500 mm	1			5 = Side entry motor supply, cable length 80 mm	1		C =	0 = None	0			1 = Mini-Fit through	1			2 = HB through	1		D =	0 = No earth profile	0			1 = Earth profile	1	
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D =	0 = No earth profile	0																																																				
	1 = Earth profile	1																																																				
Feedback:	00	00 = None (F1) 0H = Dual Hall digital (F2) (Only in combination with power switch E1 endstop) 0M = Dual Hall, encoded (F3) (Only in combination with encoded E3 endstop)																																																				
Profile options	A	A = Standard profiles LC1-S B = Reinforced profiles LC1-R C = Dovetail profiles LC1-D																																																				
Installation dimension (B1)	0350	0000 = For A profiles: 275, 312, 350, 400, 518, 560, 600, 700 mm. For B Profiles: 350 mm. For C Profiles: 518 or 560 mm.																																																				
Not in use	0	0 = None																																																				
Motor type:	G	G = 24 VDC																																																				
Endstop:	0	0 = Power switch (E1) 1 = Signal switch (E2) (only in combination with no feedback (F1)) 2 = Encoded (E3)																																																				
IP degree:	6	6 = IPX6 Applies only for top plate in upward direction																																																				
Profile colour:	+	+ = Alu (anodised) _ = White (RAL 9016) - = Black (RAL 9005)																																																				
End plate options:	A	A = Standard end plates E = Standard end plates in combination with Dovetail profiles																																																				
Not in use	0000																																																					


LC1060400T00000A03500G06+A0000



Approvals and certifications

For approval documentation, LINAK recommends specifying the product type instead of individual item numbers to ensure broader approval coverage and simplify future product changes.

Listed LINAK item for application approval: LC1

If this is not possible, we advise being as non-specific as possible when specifying LINAK products in your approval application:

Listed LINAK item for application approval: LC1*****SSSS*****S*S**SSSS

" * " is not safety critical and we recommend including a non-specific signifier such as an asterisk.

" S " is safety critical and represents a listed critical component in the product and cannot be left out.

For more information, please refer to "Approvals and certifications" in LINAK Application Design Recommendations found under User Manual for any given product on LINAK.com



LC1 variety of flexibility

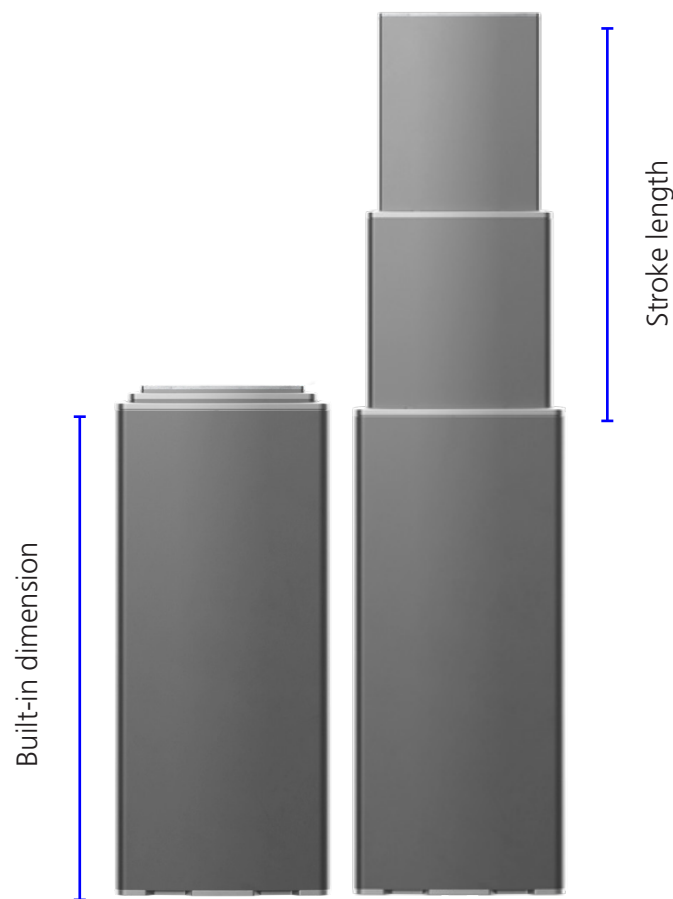
Built-in dimension: 275 - 700 mm

Stroke length: 200 - 900 mm

BID (mm)	Stroke (mm)												
		Profile	200	250	300	324	400	500	650	665	700	800	900
	275	S	X	X									
	312	S	X	X	X	X							
	350	S R	X	X	X	X	X						
	400	S	X	X	X	X	X	X					
	518	S D	X	X	X	X	X	X	X	X	X		
	560	S D	X	X	X	X	X	X	X	X	X	X	
	600	S	X	X	X	X	X	X	X	X	X	X	X
	700	S	X	X	X	X	X	X	X	X	X	X	X

BID +/-3 mm

Stroke length +4/-5 mm



Accessories

Extension cables for motor

Remember to order extension cables separately:

Article number	Description	Wires	Colour	Length (mm)
0965207-1000	Extension cable, Mini-Fit angle to Mini-Fit angle	6	7035	1,000 straight
0965207-1500	Extension cable, Mini-Fit angle to Mini-Fit angle	6	7035	1,500 straight

Please notice that the speed will be reduced by use of extension cables.

The motor extension cables have 2x18AWG for motor connection and 4x22AWG for signal connection.

Cable lock and mounting kits

Remember to order cable lock and mounting plate kits separately:

Item number	Description
1053W8011 KIT LC1 CABLE LOCK	1 x Mini-Fit cable lock incl. 1 x self-tapping screw, Ø4x10 mm (hexalubular (6 Lobe, X20)) at 2.2 Nm
1053W8021 KIT LC1 HB CABLE LOCK	1 x hand control cable lock incl. 1 x self-tapping screw, Ø4x10 mm (hexalubular (6 Lobe, x20)) at 2.2 Nm
1053W8012 KIT LC1 MOUNTING PLATE	Mounting plate kit, black (1 x top and 1 x bottom plate), 8 x screws Ø8x40 mm (hexalubular (6 Lobe, X40)) at 20 Nm
0578006 BRACKET KIT LC1	Mounting bracket kit for LC1-D profile, 1 x bracket and 2 x screws, M8x12 mm
0961006 SNAP RING	For locking of Mini-Fit cable (extension plug), MOQ = 100 pcs
00911045-B locking ring modular plug	For locking of Modular-plug cable (extension plug) MOQ = 100 pcs.

Mounting screws

For mounting there are two LINAK screws available (EJOT PT type DG Ø8 self-tapping screws):

Article number	Description
0002445, SKRUE DG WN 1552	Ø8x40 mm, self-tapping screw
0002085 M8x60 WN 1552	Ø8x60 mm, self-tapping screw

Modular extension cables

Modular extension cables OpenBus for LINAK control boxes or MJB

Article no.	Description	Wires	Colour	Length (mm)
0808098-1000	Modular extension cable	6	7035	1000 straight
0808098-1500	Modular extension cable	6	7035	1500 straight



Technical specifications

Applicable for all LC1 versions

LC1 motor type	Power supply	Spindle pitch (mm)	Push max. (mm)	Self-lock* min. (N)	Typical speed** at 0/max. load mm/sec	Typical current at full load (Amp)	Max. current label value (A)
LC1, type G	24 VDC	6	4,000	4,000	13.1/8.2	7.0	10.6
LC1, type G	33 VDC	6	4,000	4,000	18.3/13.3	7.0	10.6
LC1, type G	24 VDC	10	2,500	2,500	22.1/15.0	7.0	10.3
LC1, type G	33 VDC	10	2,500	2,500	30.9/23.3	7.0	10.3

*LINAK control boxes are designed to short-circuit the motor terminals (poles) of the actuator(s)/column(s) when these are not running. This solution gives the actuator/column a higher self-lock ability.

** Measurements made at 20 °C.

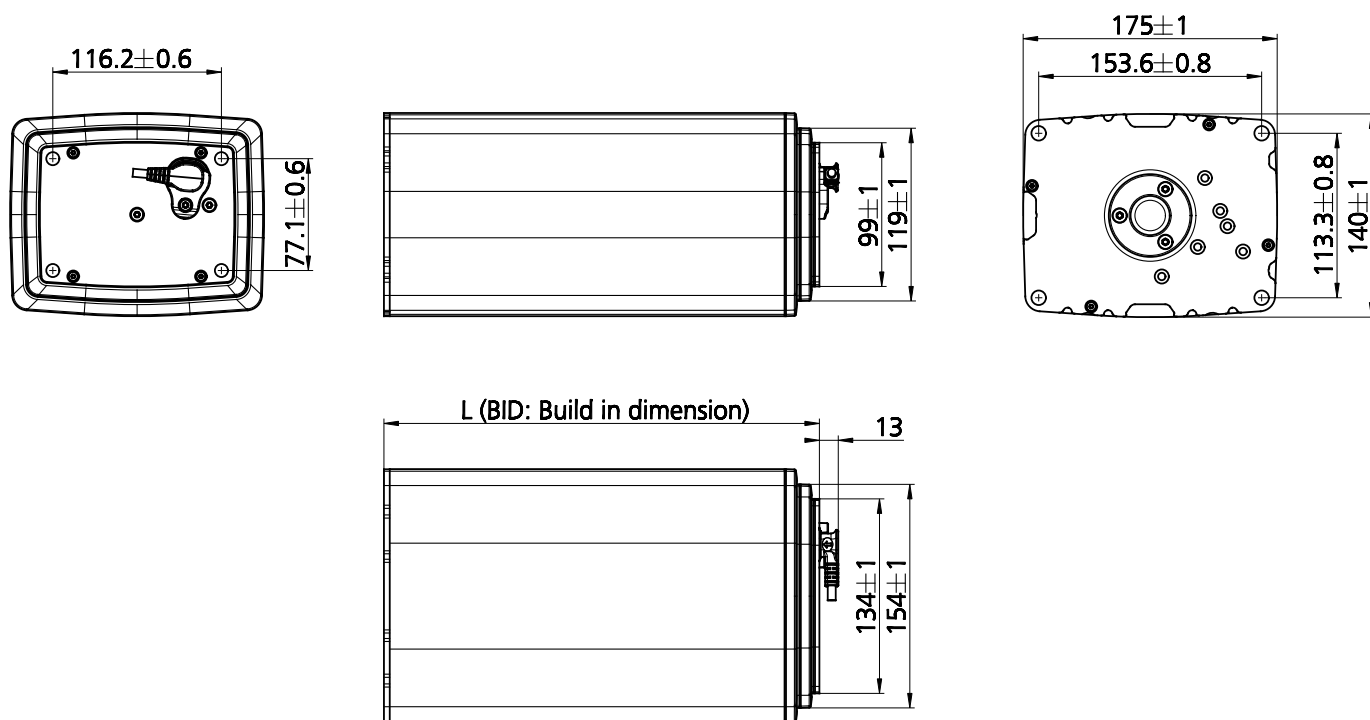
Important:

For use with customer-own control box, the motor must always be short-circuited to obtain self-locking in accordance with the rated label value.



Dimension drawings

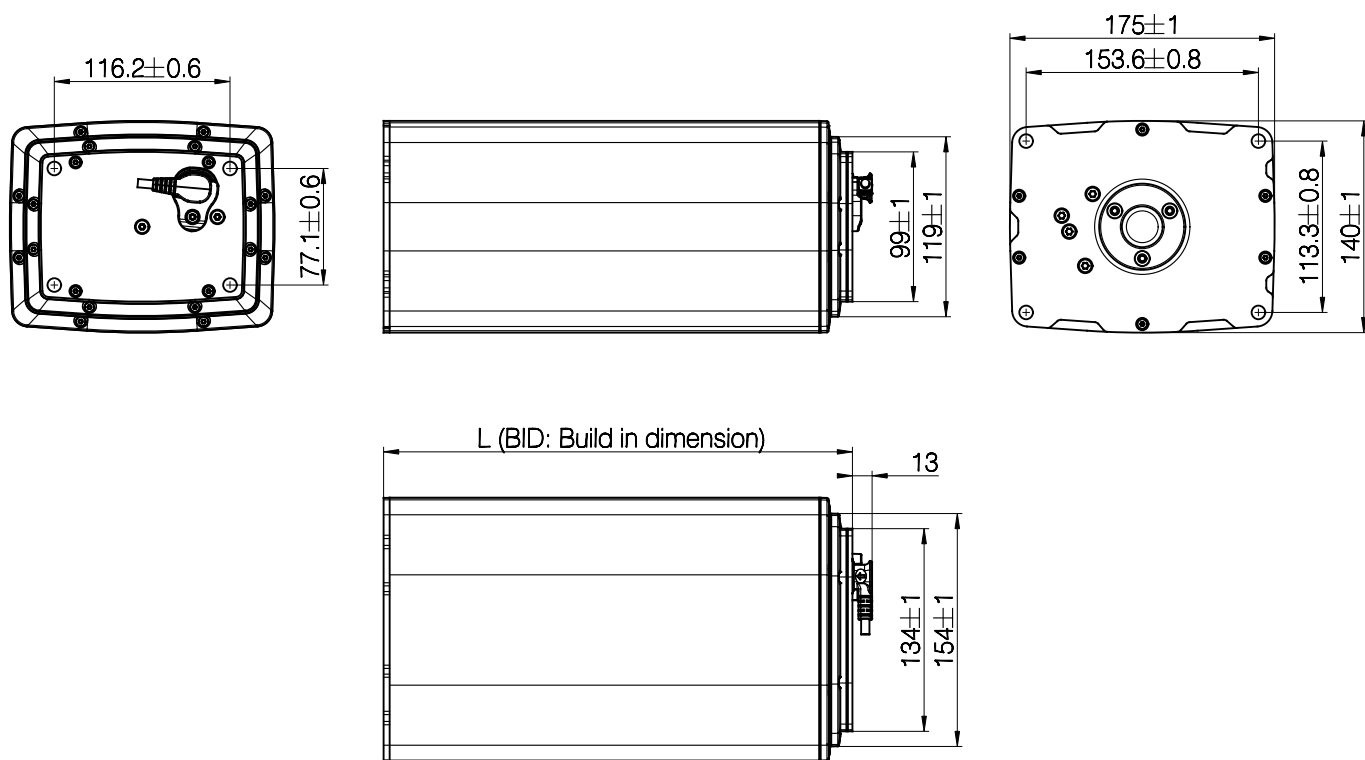
LC1-S



BID tolerance: ± 3 mm

Drawing no.: 1053W4000

LC1-R

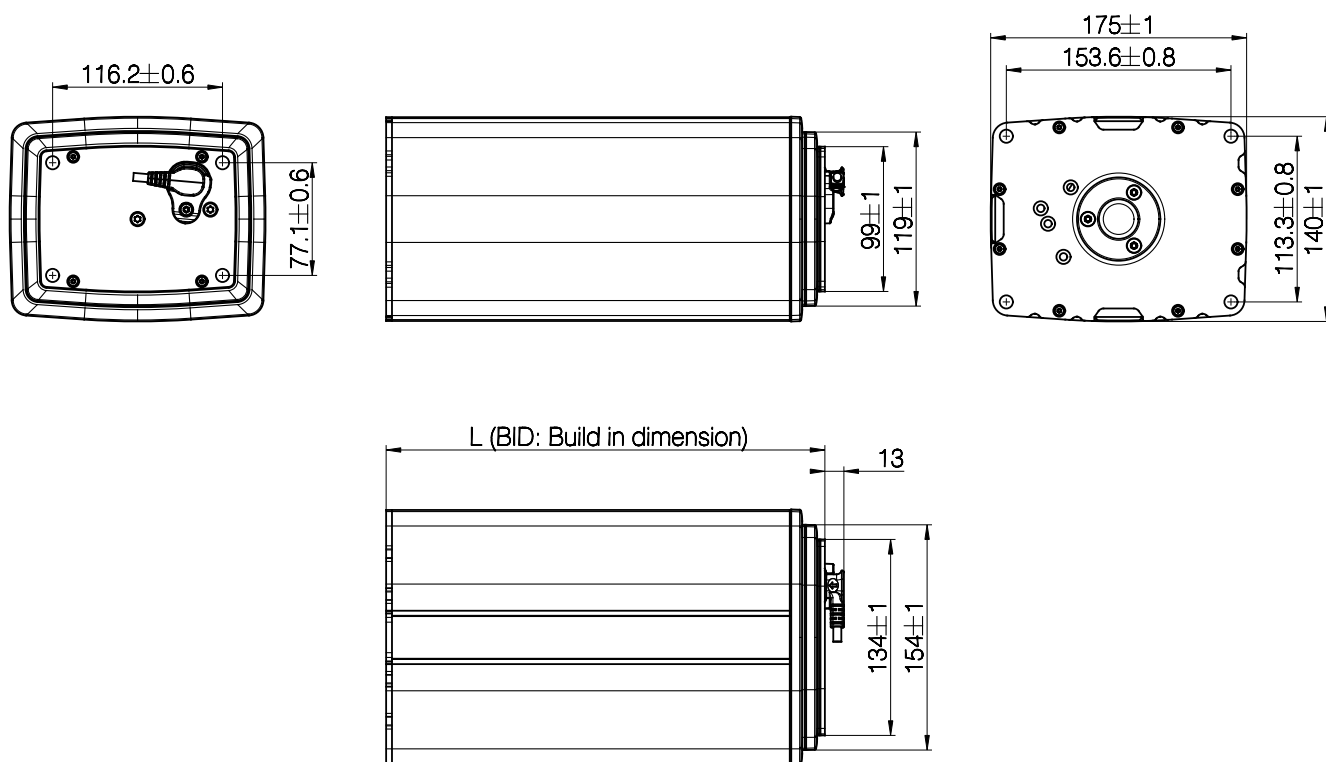


BID tolerance: ± 3 mm

Drawing no.: 1053W4005



LC1-D



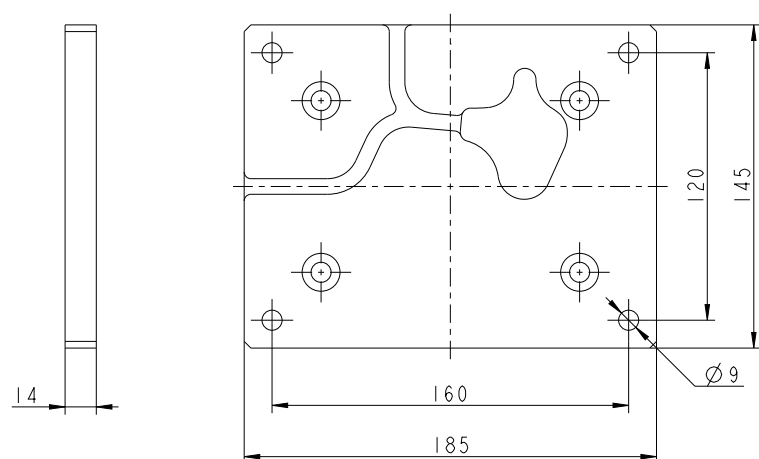
BID tolerance: ± 3 mm

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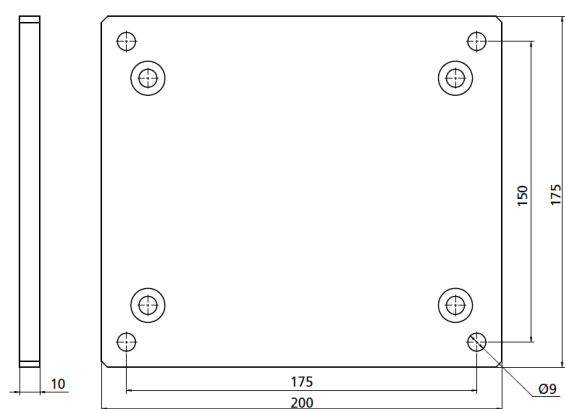
Mounting plates

Top plate



Drawing no.: 1053w4006

Bottom plate

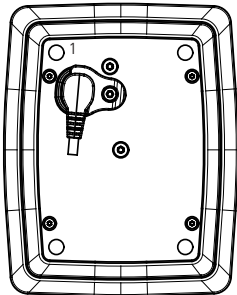
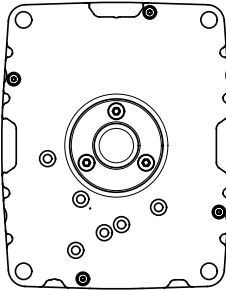
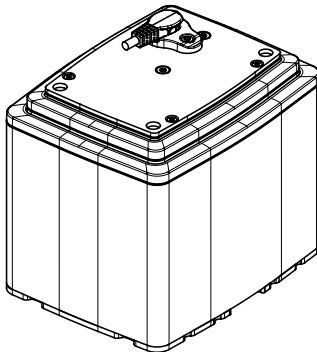
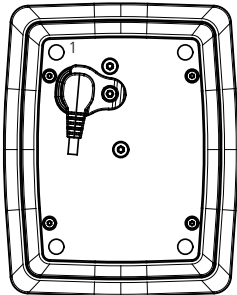
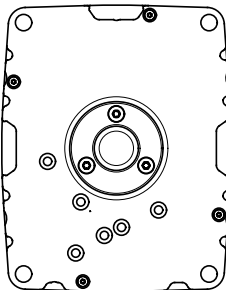
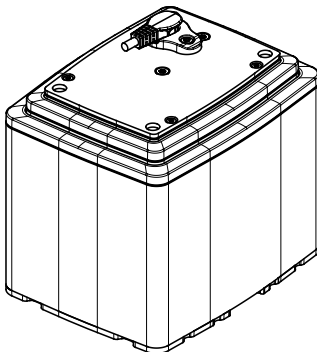
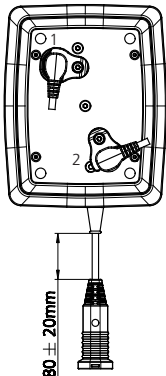
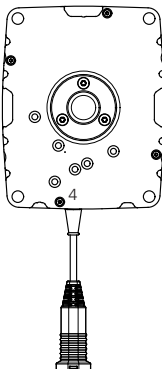
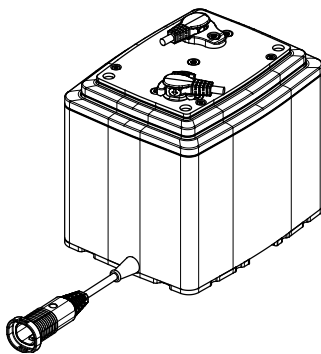


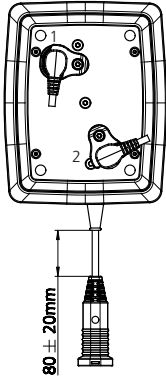
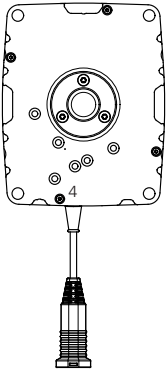
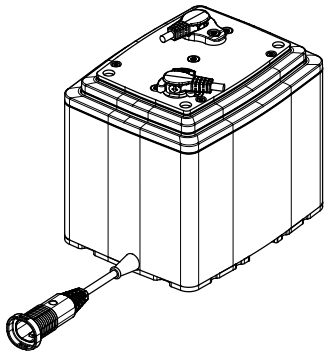
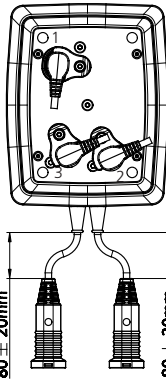
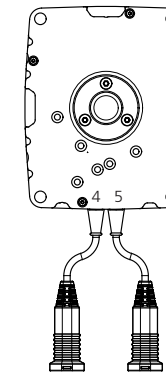
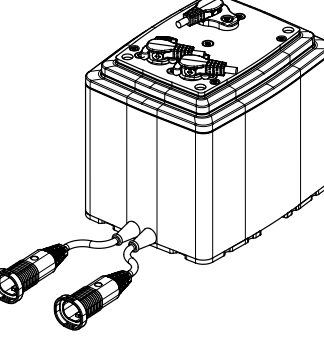
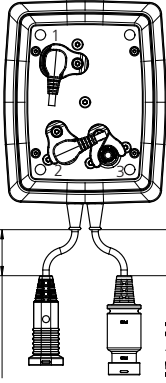
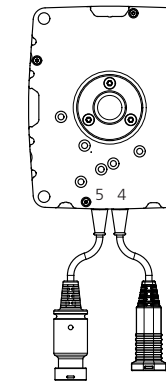
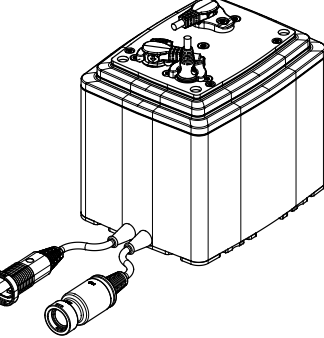
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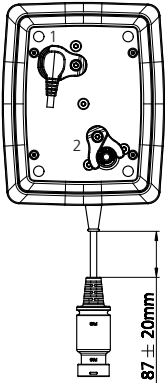
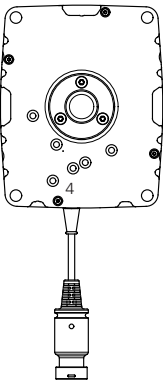
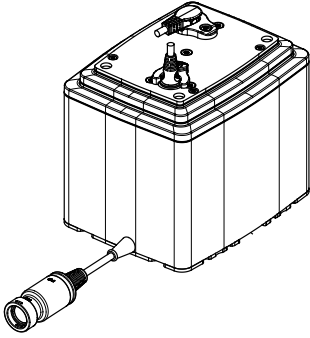
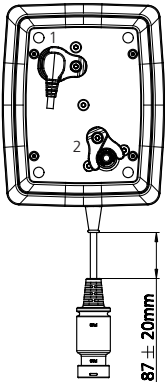
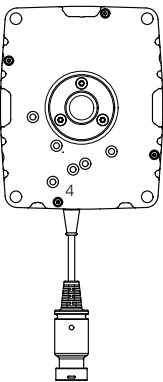
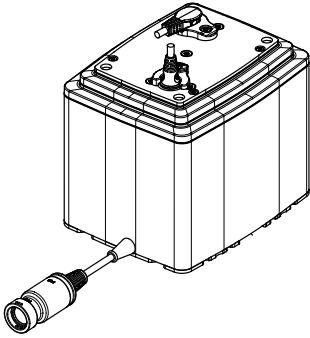
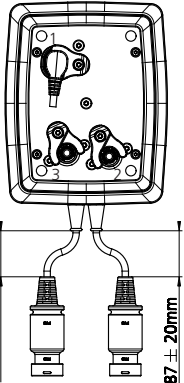
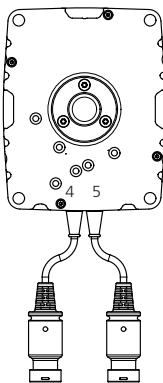
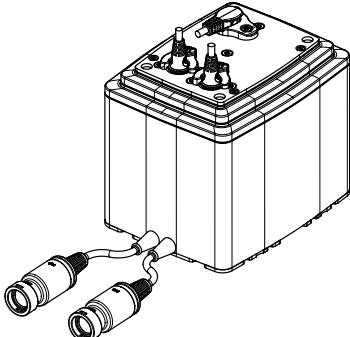


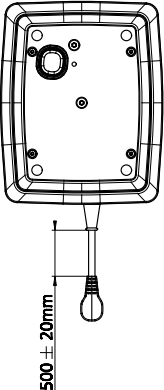
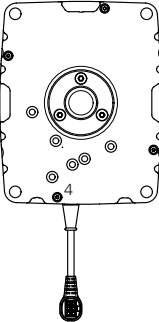
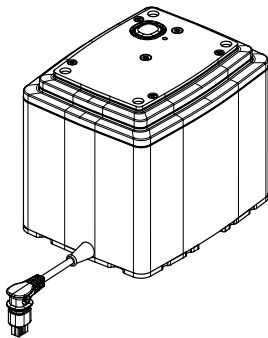
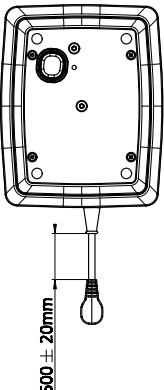
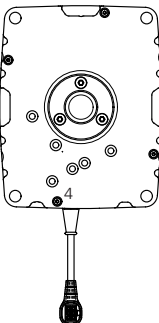
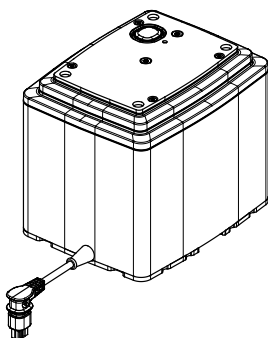
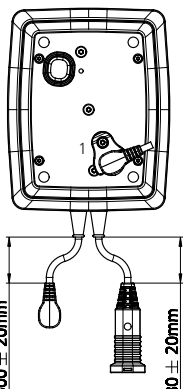
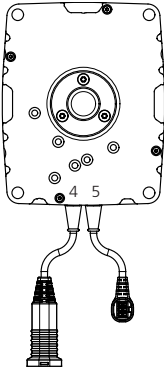
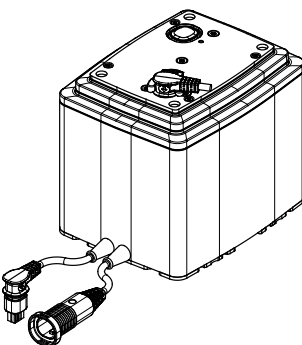
Cable connections overview

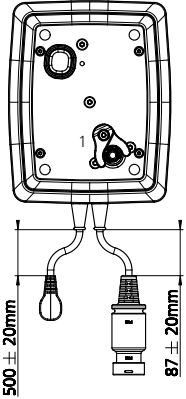
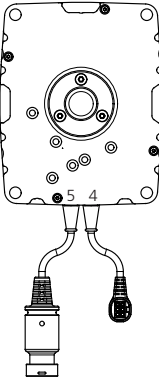
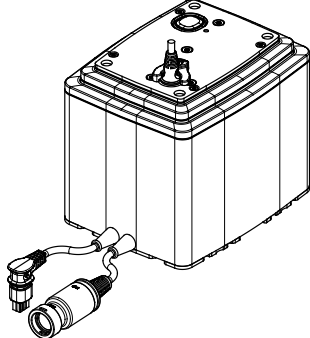
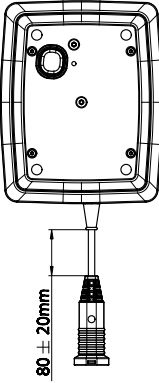
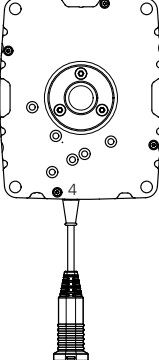
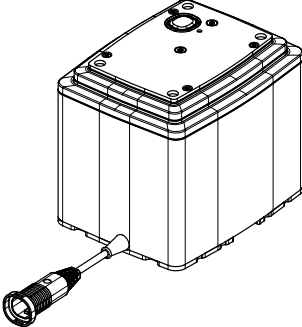
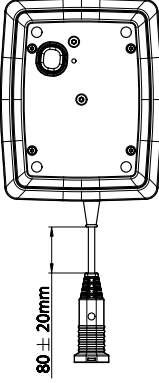
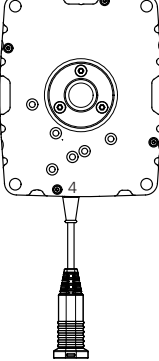
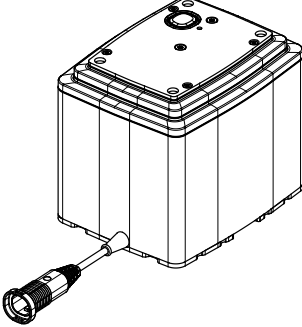
This overview shows all possible cable connections, but please be aware that some variants are upon request. Special conditions for versions on request are stated at the end of the cable connections overview.

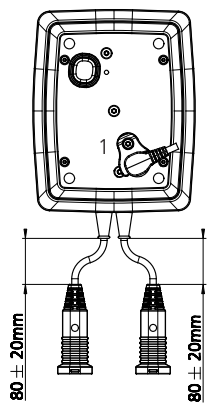
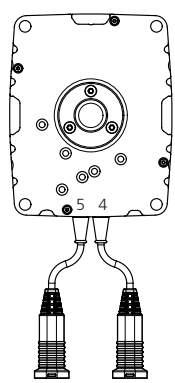
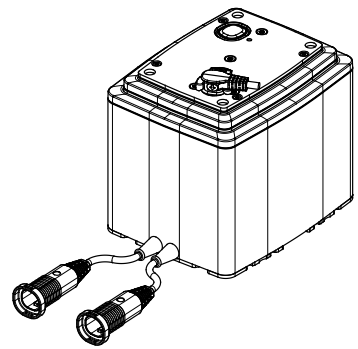
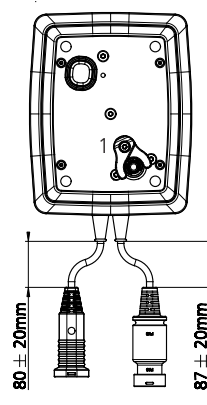
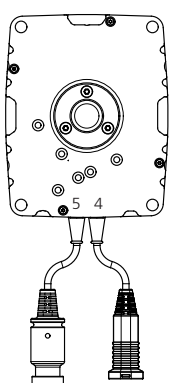
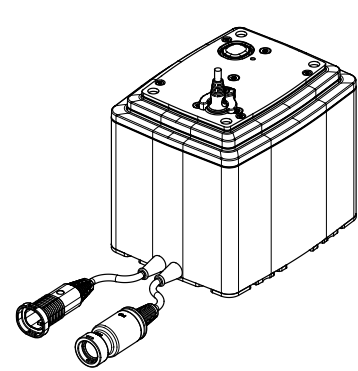
Variant	Top plate Drawing no.: 1053W4000	Side entry Drawing no.: 1053W4000	Model view
T000	 1: Motor connection		
T001	 1: Motor connection		 Including protective grounding cable
T100	 1: Motor connection 2: Minifit	 4: Minifit	

T101	 1: Motor connection 2: Minifit	 4: Minifit	 Including protective grounding cable
T110	 1: Motor connection 2: Minifit 3: Minifit	 4: Minifit 5: Minifit	
T120	 1: Motor connection 2: Minifit 3: Hand control	 4: Minifit 5: Hand control	

T200	 1: Motor connection 2: Hand control	 4: Hand control	
T201	 1: Motor connection 2: Hand control	 4: Hand control	 Including protective grounding cable
T220	 1: Motor connection 2: Hand control 3: Hand control	 4: Hand control 5: Hand control	

S300	 500 ± 20mm	 4	
S301	 500 ± 20mm	 4	 Including protective grounding cable
S310	 500 ± 20mm 80 ± 20mm 1: Minifit	 4 5 4: Minifit 5: Motor connection	

S320	 1: Hand control	 4: Motor connection 5: Hand control	
S500		 4: Motor connection	
S501		 4: Motor connection	 Including protective grounding cable

S510	 1: Motor connection	 4: Motor connection 5: Motor connection	
S520	 1: Hand control	 4: Motor connection 5: Hand control	

Cable options

BID	275 mm	312 mm	350 mm	400 mm	518 mm	560 mm
Hand control	X	X	X	X		
Minifit	X	X	X	X		
Side-entry motor cable	X	X	X	X	X	X
Grounding	X	X	X	X	X	X



Off-centre load

General precautions

LINAK offers off-centre load charts for evaluating how the LC1 column with off-centre load will perform.

The LC1 must always be operated within the IDEAL area specified in the charts. In the OVERLOAD area, internal components can break. In the UNDERLOAD area, vibration problems can occur.

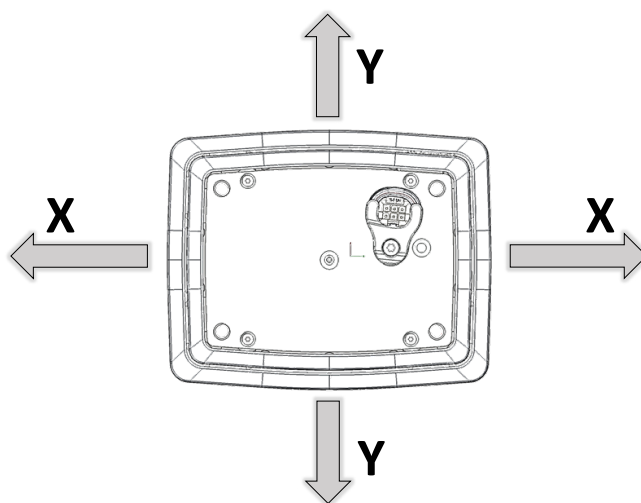
The off-centre load charts offer guidance and indications only.

If off-center load is applied to an LC1 column, final testing and approval by the customer is recommended, as stability and performance depend on each specific customer application. This applies to long LC1 columns ($BID + SL \geq 1100 \text{ mm}$) in particular.

The following must be investigated and evaluated:

- Possible increased current consumption due to increased bending moment and friction.
- Possible lower performance such as reduced speed and lifetime.
- Vibrations depending on stiffness and eigenfrequency of the application.
(Applying a counter load or use of an electrical soft-start may reduce vibrations).
- Tilting angle of the column and application.
- Increased dust from sliders due to increased bending moment and friction.

X vs Y direction



Specified bending moments apply to X direction. Bending moment Y direction = $0.8 \times X$.

Max. bending moments

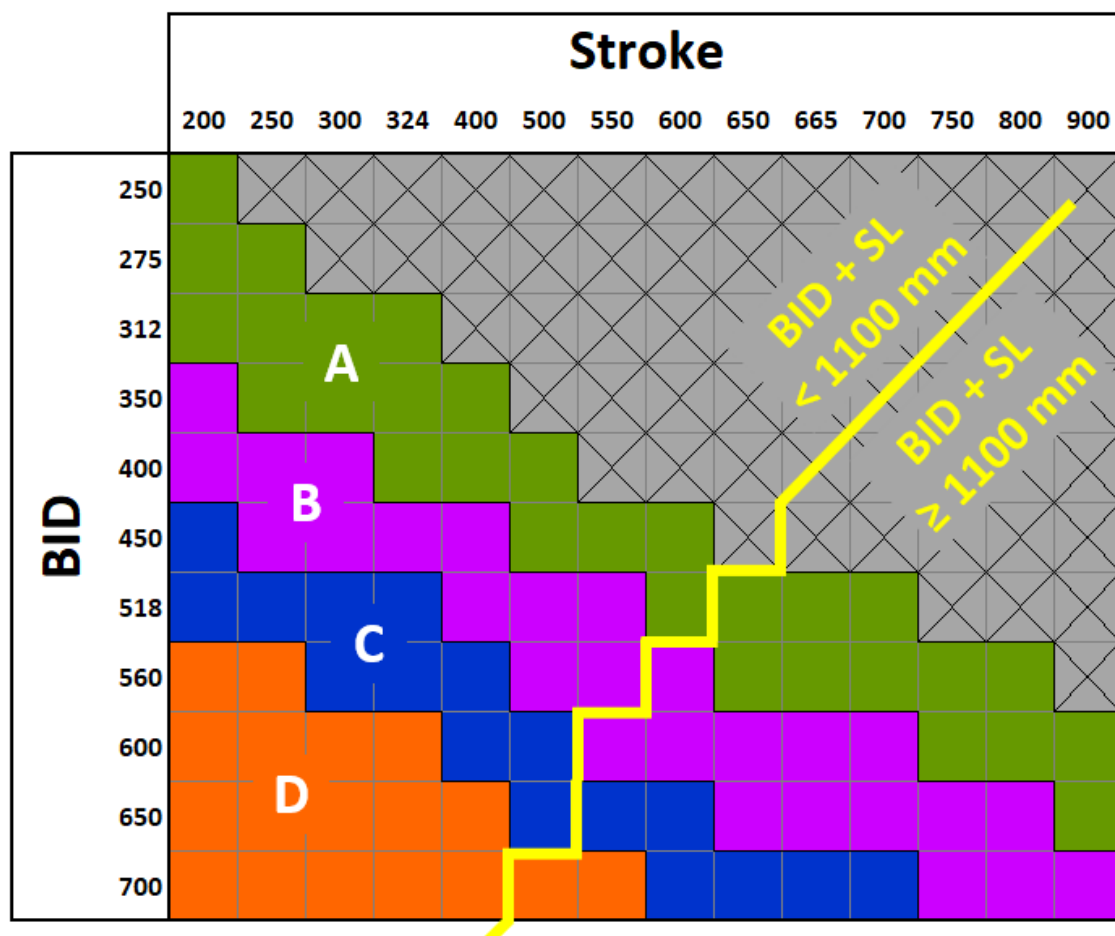
				Max. Bending Moment					
Profile Option	Off-centre Load Curve	Interval of Profile Overlap		Push, Dynamic*				Push, Static (Safety Factor 2.5)	
				2.500 N version		4.000 N version			
				BID + SL < 1100 mm	BID + SL ≥ 1100 mm	BID + SL < 1100 mm	BID + SL ≥ 1100 mm	BID + SL < 1100 mm	BID + SL ≥ 1100 mm
LC1-S LC1-D		BID ≥ BID <	½ SL + 150 mm ½ SL + 240 mm	330 Nm	170 Nm	350 Nm	260 Nm	500 Nm	400 Nm
		BID ≥ BID <	½ SL + 240 mm ½ SL + 330 mm	640 Nm	320 Nm	670 Nm	530 Nm	920 Nm	700 Nm
		BID ≥ BID <	½ SL + 330 mm ½ SL + 420 mm	940 Nm	470 Nm	1000 Nm	790 Nm	1240 Nm	
		BID ≥	½ SL + 420 mm	1250 Nm	620 Nm	1320 Nm	1040 Nm	1600 Nm	
LC1-R		BID ≥ BID <	½ SL + 150 mm ½ SL + 240 mm	360 Nm		500 Nm		900 Nm	
		BID ≥ BID <	½ SL + 240 mm ½ SL + 330 mm	680 Nm		940 Nm		1680 Nm	
		BID ≥ BID <	½ SL + 330 mm ½ SL + 420 mm	990 Nm		1370 Nm		1800 Nm	
		BID ≥	½ SL + 420 mm	1310 Nm		1800 Nm			

*Values are indicative only and based on limitations of total load and off-centre distance.

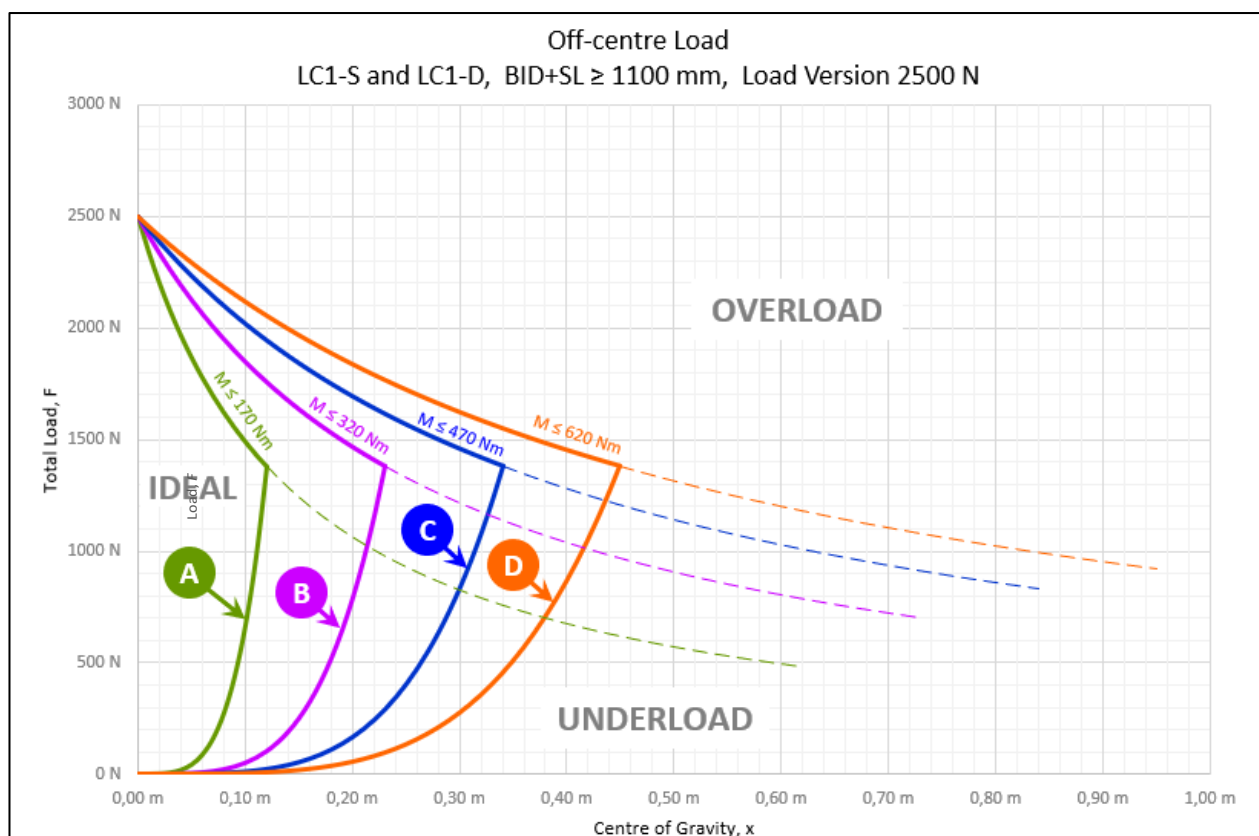
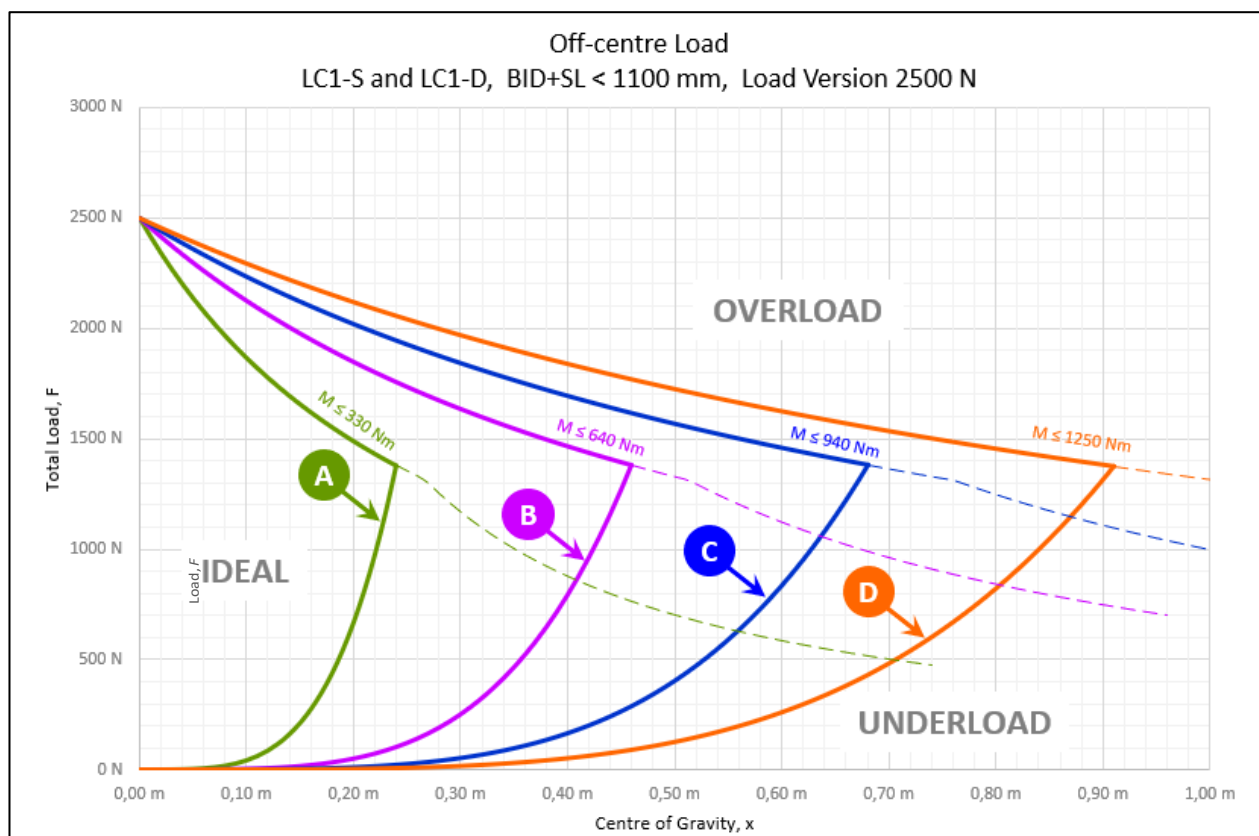
Consult off-centre load charts for evaluation of a specific load case of an application.

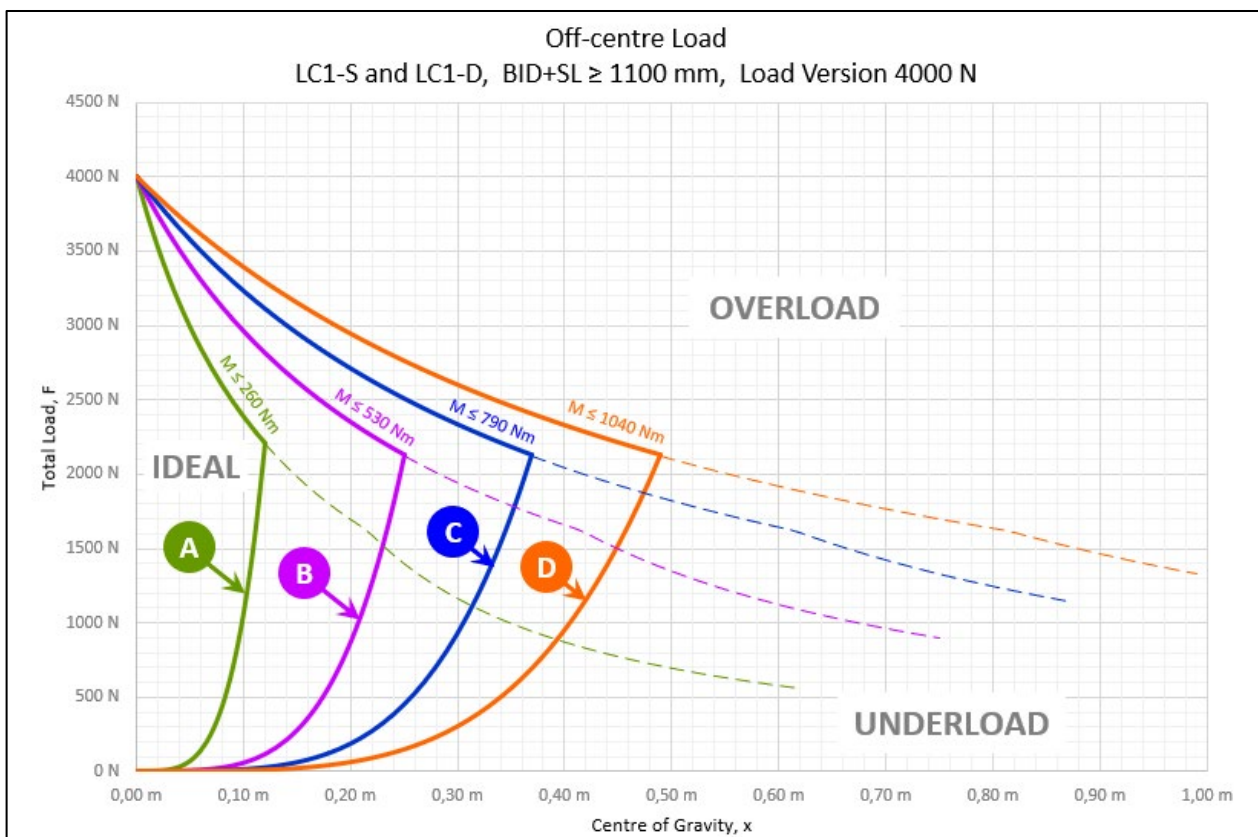
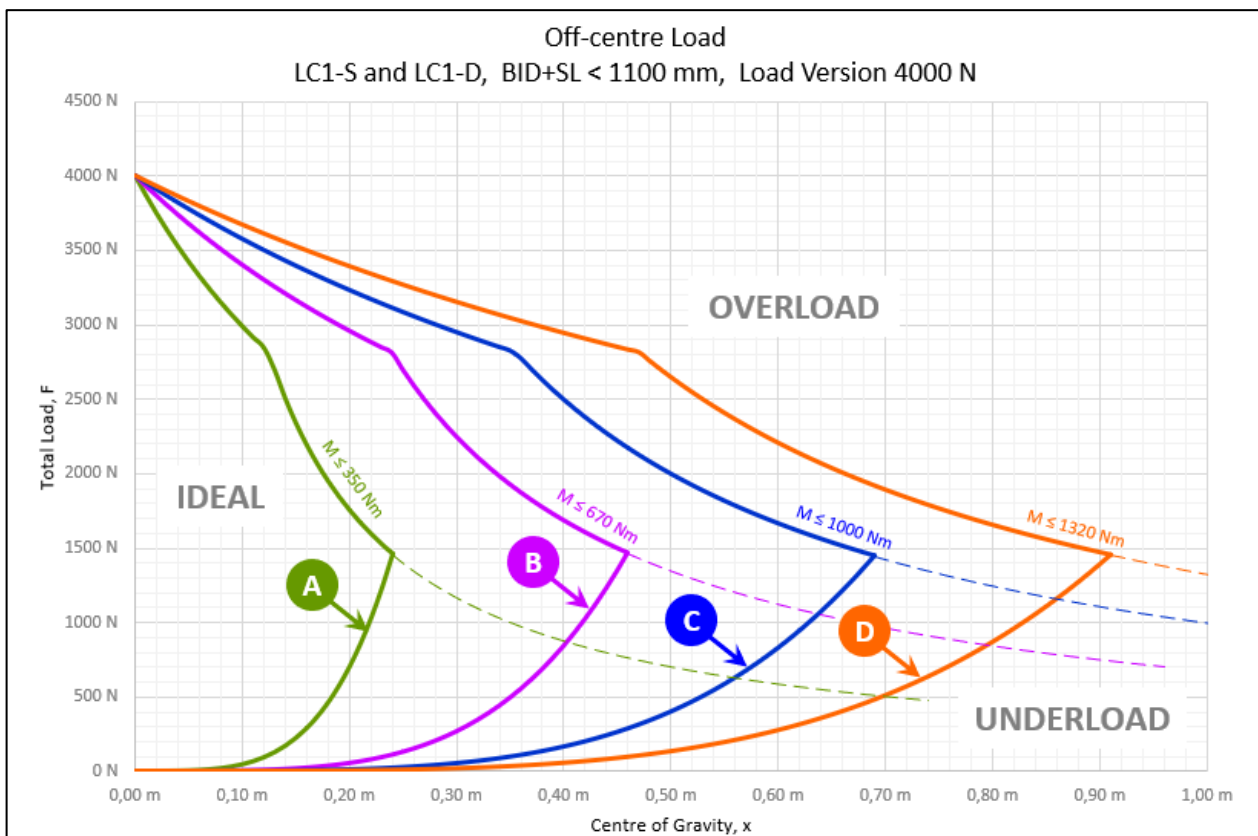


Off-centre load table

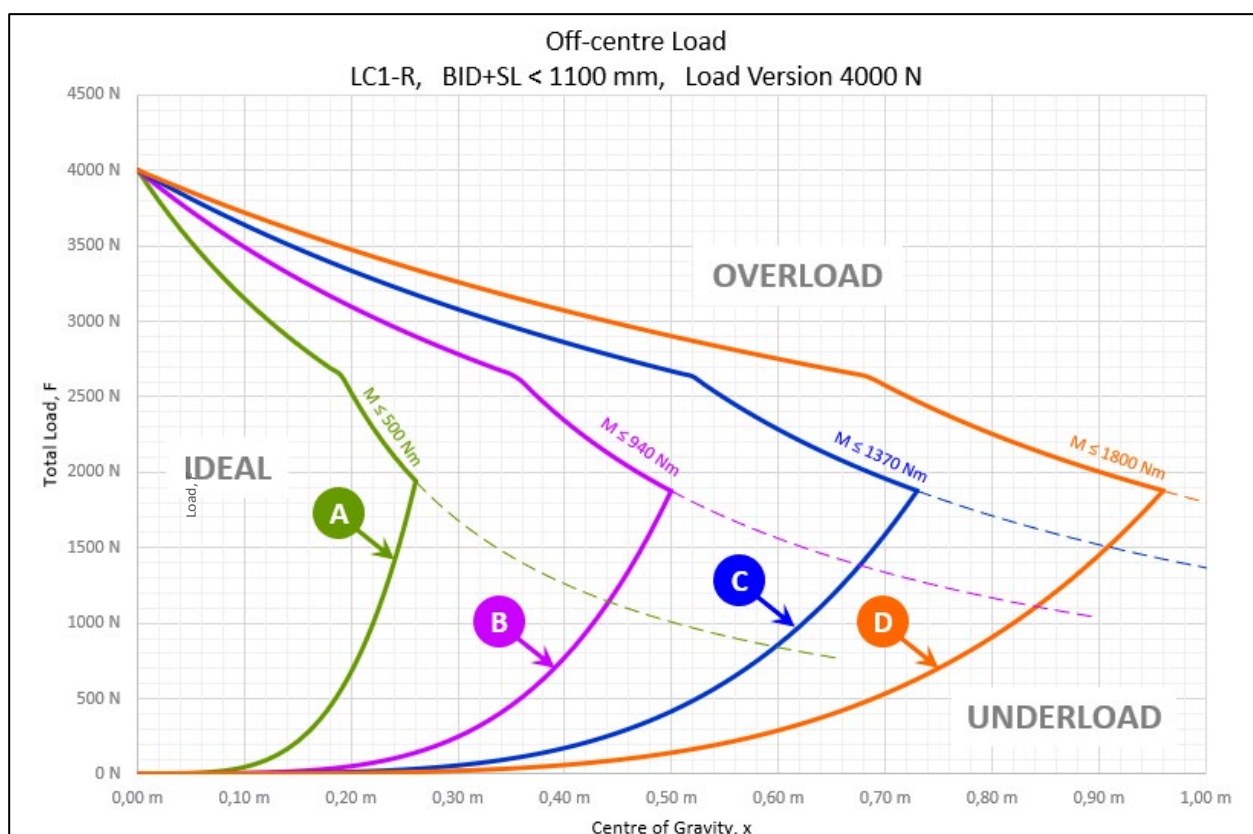
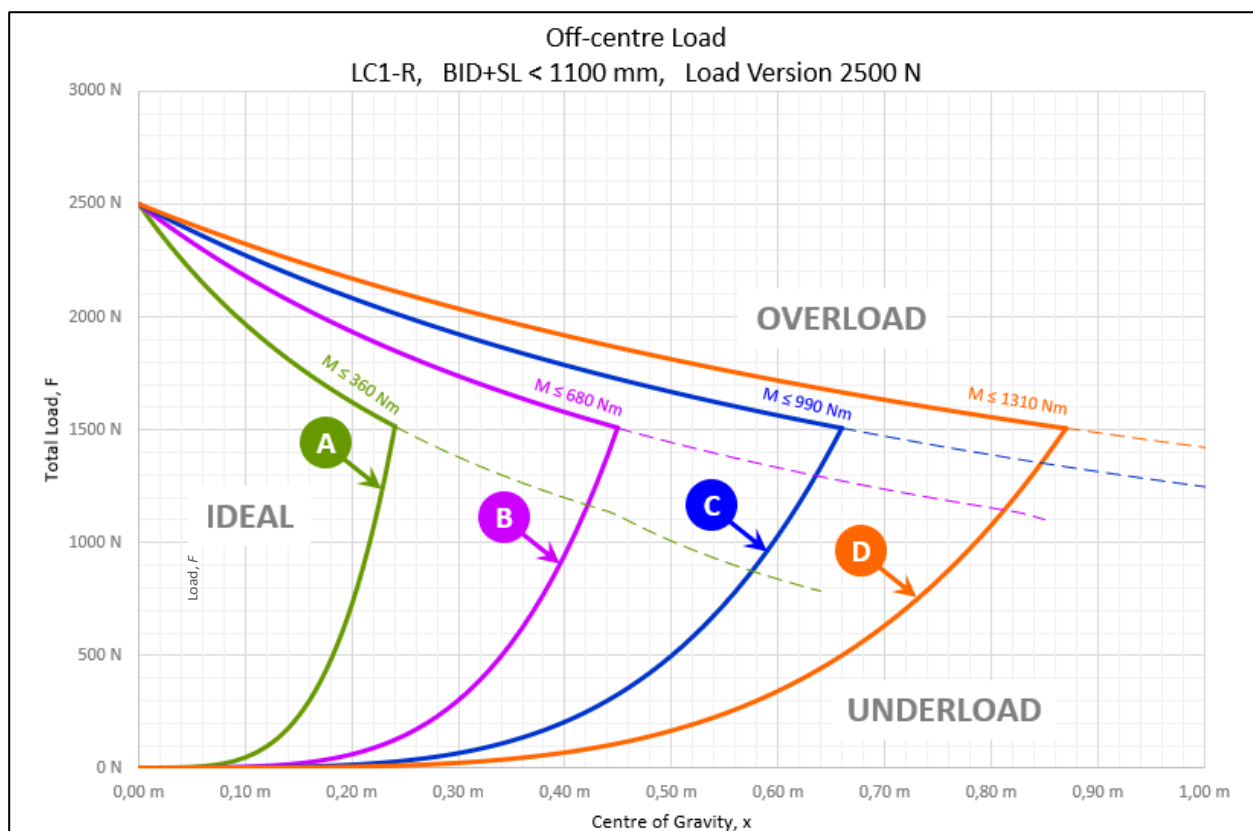


Off-centre load charts for LC1-S and LC1-D



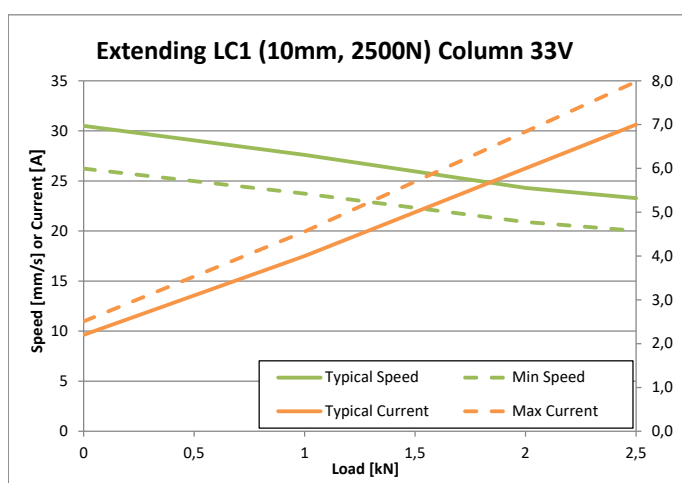
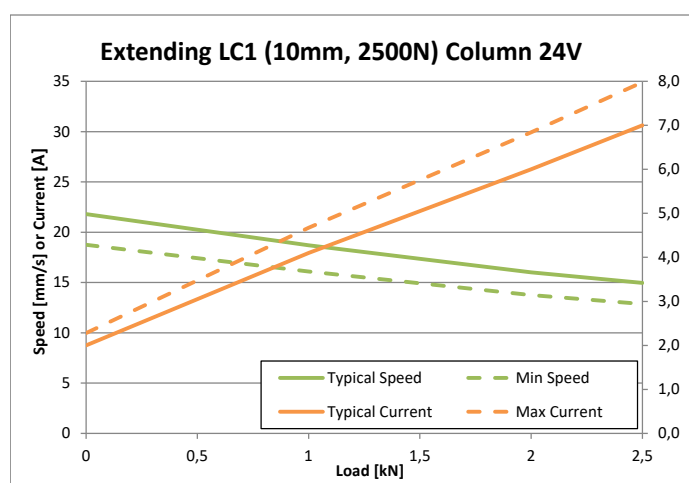
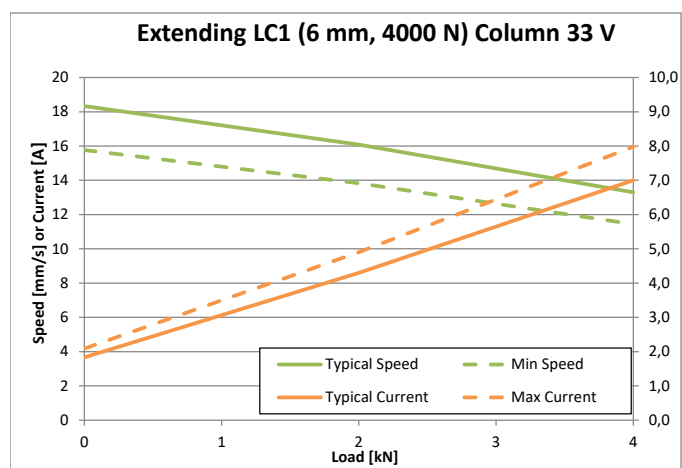
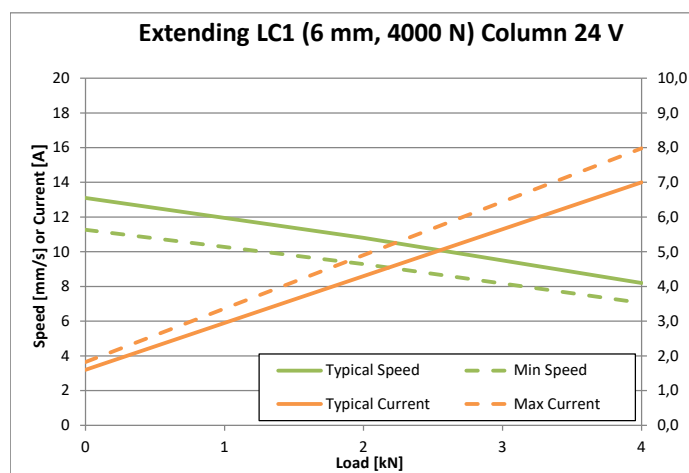


Off-centre load charts for LC1-R



Speed, load and current curves

Valid for all LC1 versions



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