

LIFTING COLUMN LC2

Features

- LC2 is a specially designed telescoping aluminium lifting column incorporating a LINAK 24 V DC linear actuator (LA28C or LA30)
- LC2 lifting columns are available in 2 versions, the LC2-2 (small column) and the LC2-5 (large column)
- Thrust up to 5000 N (push only)
- Available with either 3 or 10 mm end plates
- Robust anodized aluminium surface
- Elegant and compact design
- Cable: Exchangeable cables
- Internal end stop switches
- Safety nut is standard on all LC2 types
- Standard protection class: IP 30

Options

- Reed-switch (for parallel and memory functions)

Usage

- Duty cycle: 2/18, 2 minutes continuous use followed by 18 minutes not in use
 - LC2 is compatible with CB8, CB9, CB12, CB14** or CB18**
 - Ambient temperature: 5° to 40°C
- ** Contact LINAK AIS for technical support on parallel applications



The LC2 column has an improved "twisting" stability and end stop switches as standard.

Depending on the application, the LC2 can be operated either as a single column or several columns in a parallel system by choosing a control box with micro processor.

It is designed to provide vertical lifting (push only) where simultaneous bending and torsion moments may occur.

Technical specifications:

Actuator Type	Max. Push Force (N)	Stroke (mm)	Install. dim. 3 mm end plate (mm)	*Speed No Load / Full Load (mm/sec)	*Max. current (A)	Voltage (VDC)	Duty Cycle	Amb. Temp. (C)
LC22A (286XXX-1XXXX1XX)	3000	100 to 500	307 to 707	5.9 / 4.7	3.9	24	10%, up to 2 min. continuously at full load	5° / 40°
LC22B (282X00-5XXXX1XX)	1500	100 to 500	307 to 707	20.0 / 11.5	4.6	24	10%, up to 2 min. continuously at full load	5° / 40°
LC25C (301X00-1XXXX4XX)	5000	100 to 500	307 to 707	5.9 / 3.5	4.5	24	10%, up to 2 min. continuously at full load	5° / 40°
LC25D (301X00-1XXXX0XX)	2500	100 to 500	307 to 707	15 / 9	6.5	24	10%, up to 2 min. continuously at full load	5° / 40°
LC25E (302X00-5XXXX4XX)	2500	100 to 500	307 to 707	12.5 / 7	4.0	24	10%, up to 2 min. continuously at full load	5° / 40°
LC25F (303X00-5XXXX4XX)	1500	100 to 500	307 to 707	18 / 13	4.5	24	10%, up to 2 min. continuously at full load	5° / 40°

* Speed and current are measured using a stable power supply.

Special articles are available contact LINAK A/S



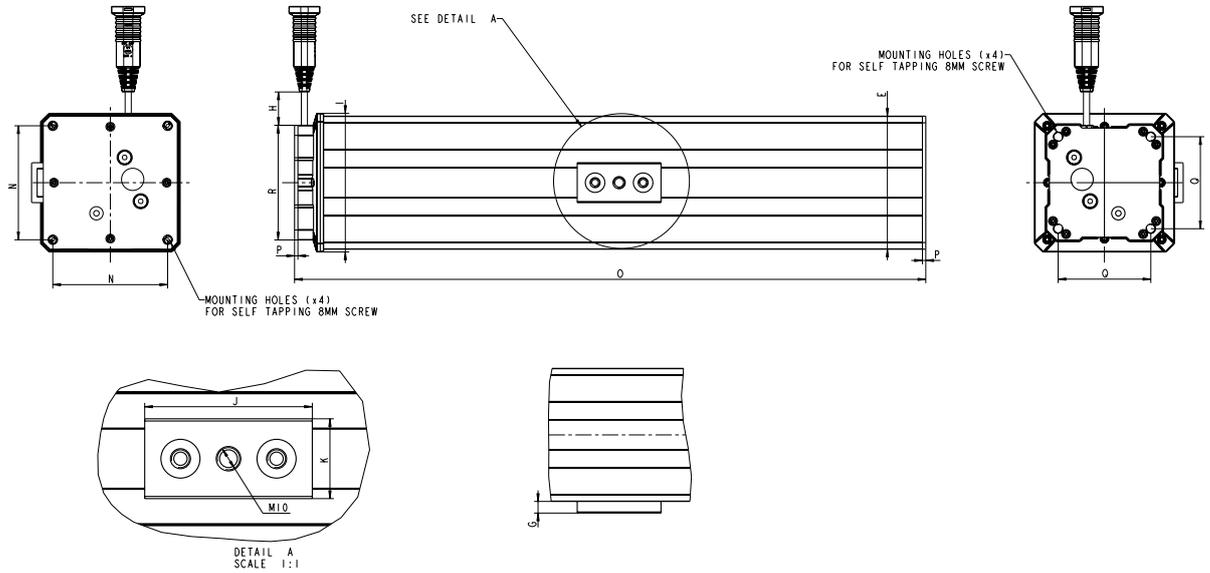
Precautions

- The installation dim. is increased by 14mm when 10mm endplates are chosen.
- Max. bending load is obtained from the bending load curves for the specific actuator type selected.
- The speeds mentioned above are with no offset load applied to the actuator.
- 8 mm self-tapping screws can be ordered separately with part no.: 0002085. Order through LINAK US. If another type of screw is used the screw must be a DG type screw for aluminium, the screw depth must be min. 60mm.
- If the 3 mm endplate option is chosen and an offset load is applied, do not unscrew the selftapping screw out of the profiles. This will reduce the strength of the assembly when the screw is screwed in again.
- When an offset load is applied to the column, extra consideration must be taken regarding the mounting of LC2. The top and the base must be fastened securely to avoid vibration and the offset load must be parallel to the limit switch side.
- 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. If the actuator(s) are not connected to a LINAK control box, the terminals of the motor must be short circuited to achieve the self-locking ability of the actuator.
- Storage temperature -40° to 70° C

LC22

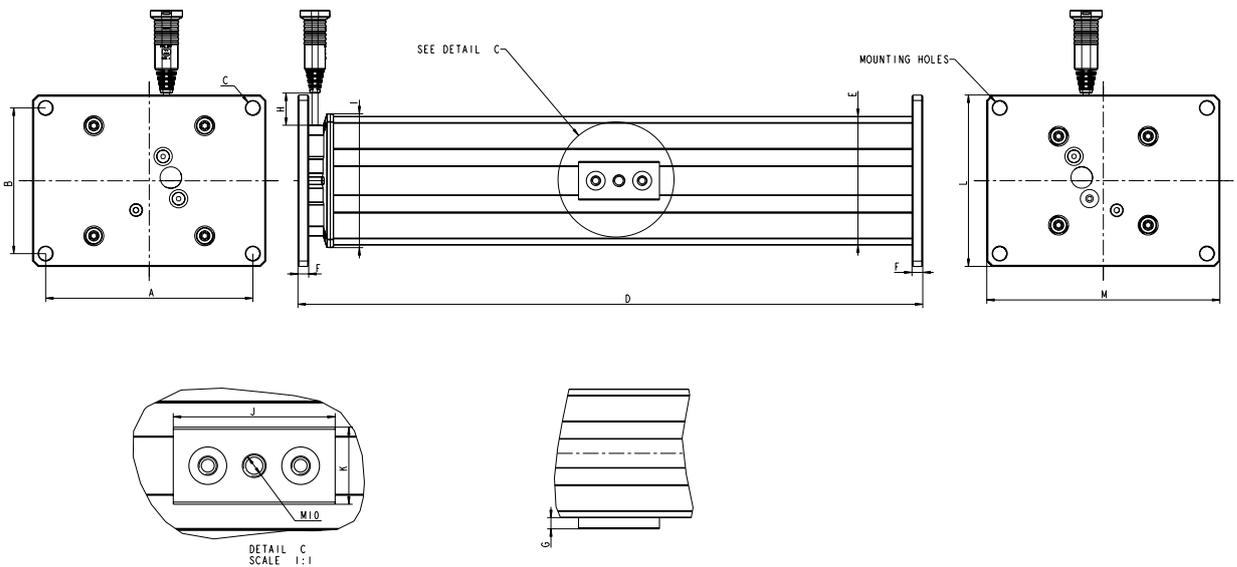
Dimensions:

With 3 mm endplates (P)



DIMENSION TABLE					
DIM.	in	mm	DIM.	in	mm
E	4.72 SQ.	120 SQ.	N	4.04	102.62
G	0.41	10.5	O	S+7.91+2P	S+201+2P
H	3.54	90	P	0.12	3
I	4.92 SQ.	125 SQ.	Q	3.26	82.92
J	3.95	75	R	5.1	103.3
K	1.42	36			

With 10 mm endplates (F)

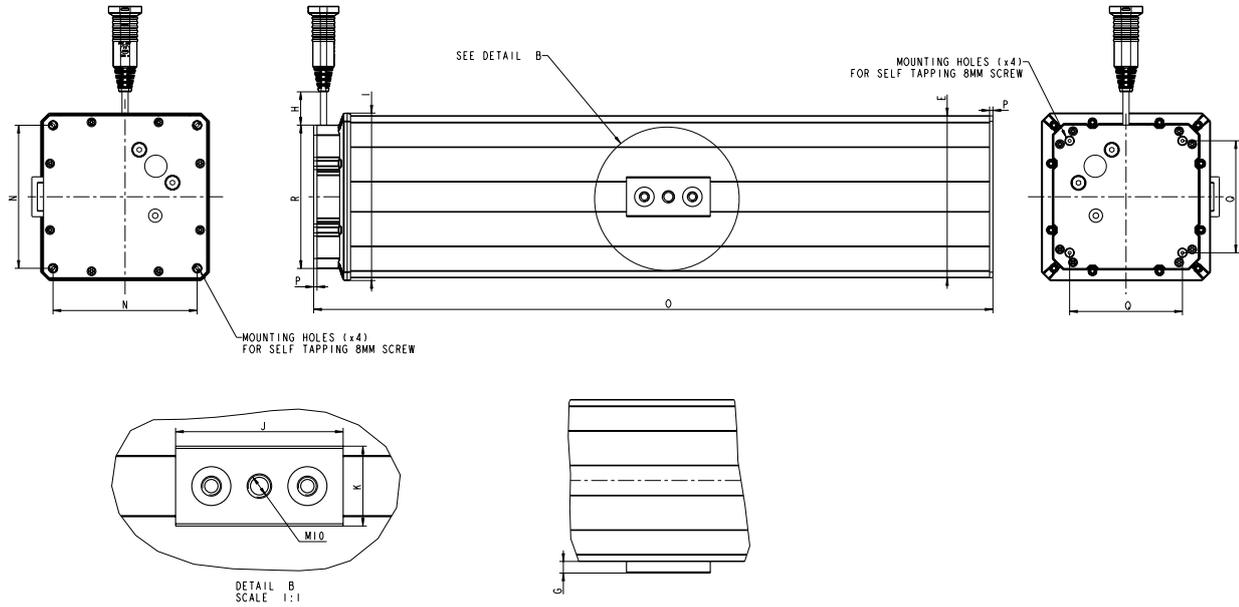


DIMENSION TABLE					
DIM.	in	mm	DIM.	in	mm
A	7.56	192	H	3.54	90
B	5.35	136	I	4.92 SQ.	125 SQ.
C	Ø0.51	Ø13	J	3.95	75
D	S+8.46+2F	S+215+2F	K	1.42	36
E	4.72 SQ.	120 SQ.	L	6.30	160
F	0.39	10	M	8.50	216
G	0.41	10.5			

LC25

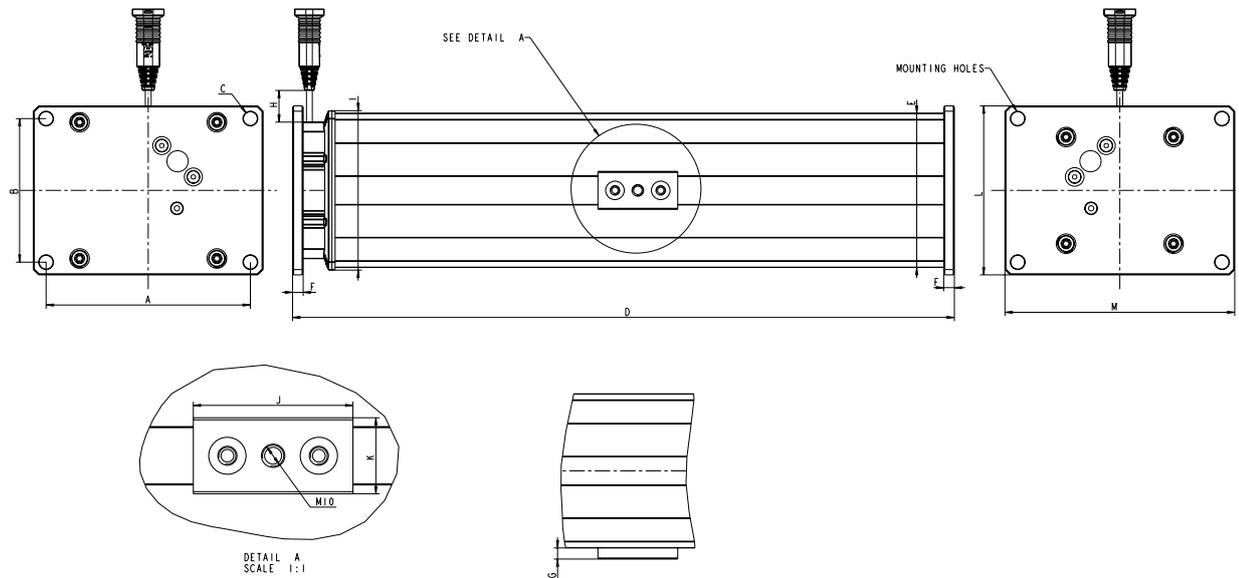
Dimensions:

With 3 mm endplates (P)



DIMENSION TABLE					
DIM.	in	mm	DIM.	in	mm
E	5.75 SQ.	146 SQ.	N	5.08	129
G	0.41	10.5	O	S+7.91+2P	S+201+2P
H	3.54	90	P	0.12	3
I	5.94 SQ.	151 SQ.	Q	3.98	101
J	3.95	75	R	5.1	129.3
K	1.42	36			

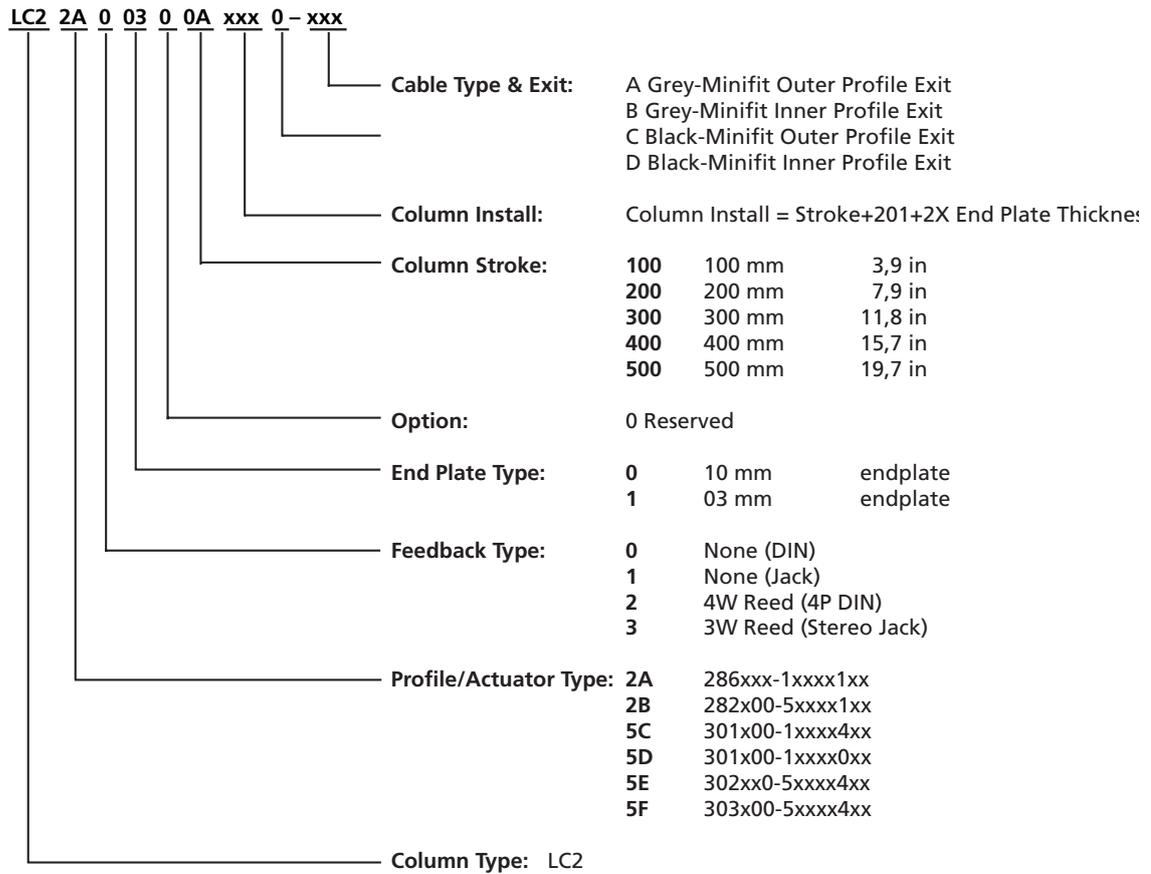
With 10 mm endplates (F)



DIMENSION TABLE					
DIM.	in	mm	DIM.	in	mm
A	7.56	192	H	3.54	90
B	5.35	136	I	5.94 SQ.	151 SQ.
C	∅0.51	∅13	J	3.95	75
D	S+8.46+2F	S+215+2F	K	1.42	36
E	5.748 SQ.	146 SQ.	L	6.30	160
F	0.39	10	M	8.50	216
G	0.41	10.5			

LC2

Ordering example:



External cable to be ordered separately.

Non Reed	Reed
Part No.	Part No.
00914569 - 2100 mm Black Jack	00914588 - 2100 mm Grey Jack
00914573 - 2100 mm Grey Jack	00914589 - 2100 mm Black Jack
00914571 - 2100 mm Black 4P DIN	00914665 - 2100 mm Black 4P DIN
00914572 - 2100 mm Grey 4P DIN	00914666 - 2100 mm Grey 4P DIN



Mounting brackets have to be ordered separately
 Order number: 0578006 (incl. 2 mounting screws)(drawing on LINTRA)



There are 4 holes provided in the 10mm end plate for mounting the column into its application.

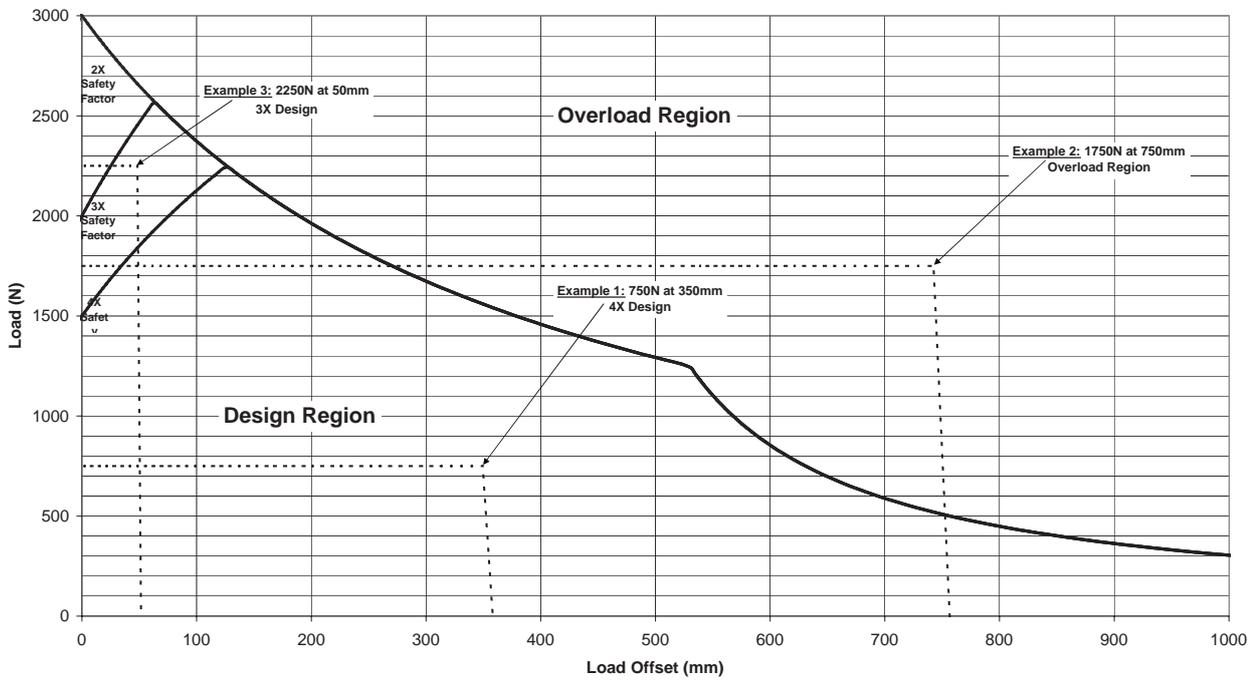


When ordering, please bear in mind, the LC2's are packed 12 to a pallet.

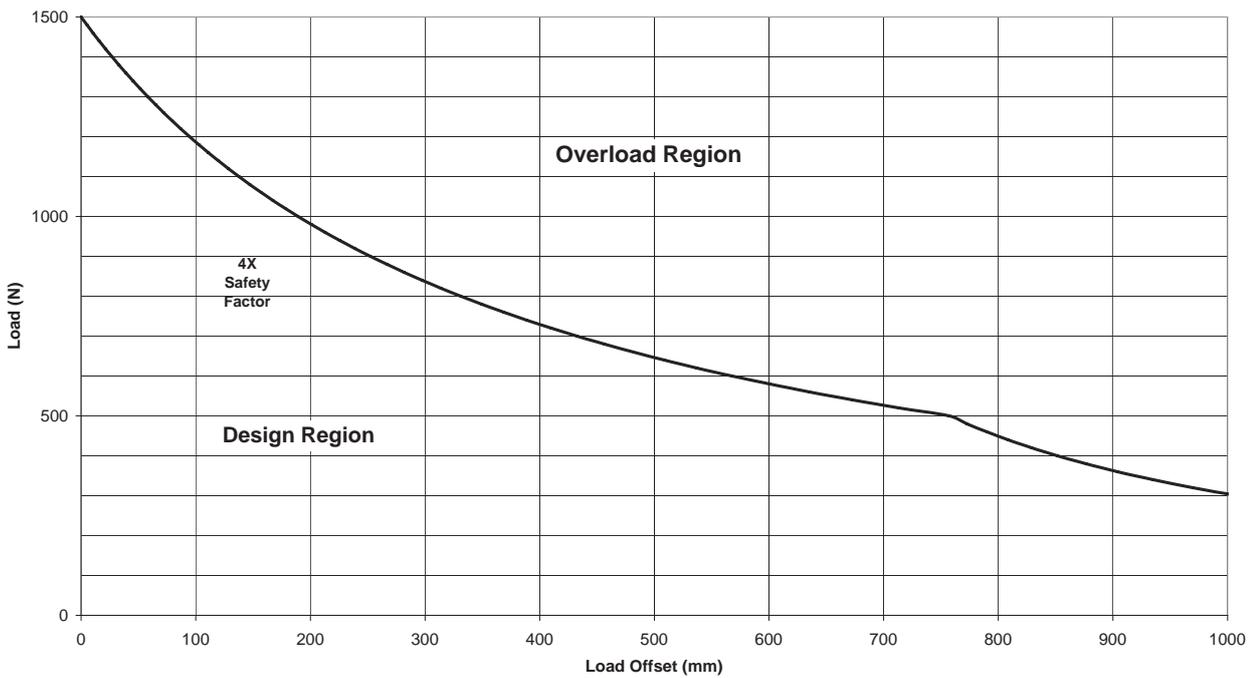
LC22

Bending Load:

Bending Load for Actuator 2A (286XXX-1XXXX1XX)



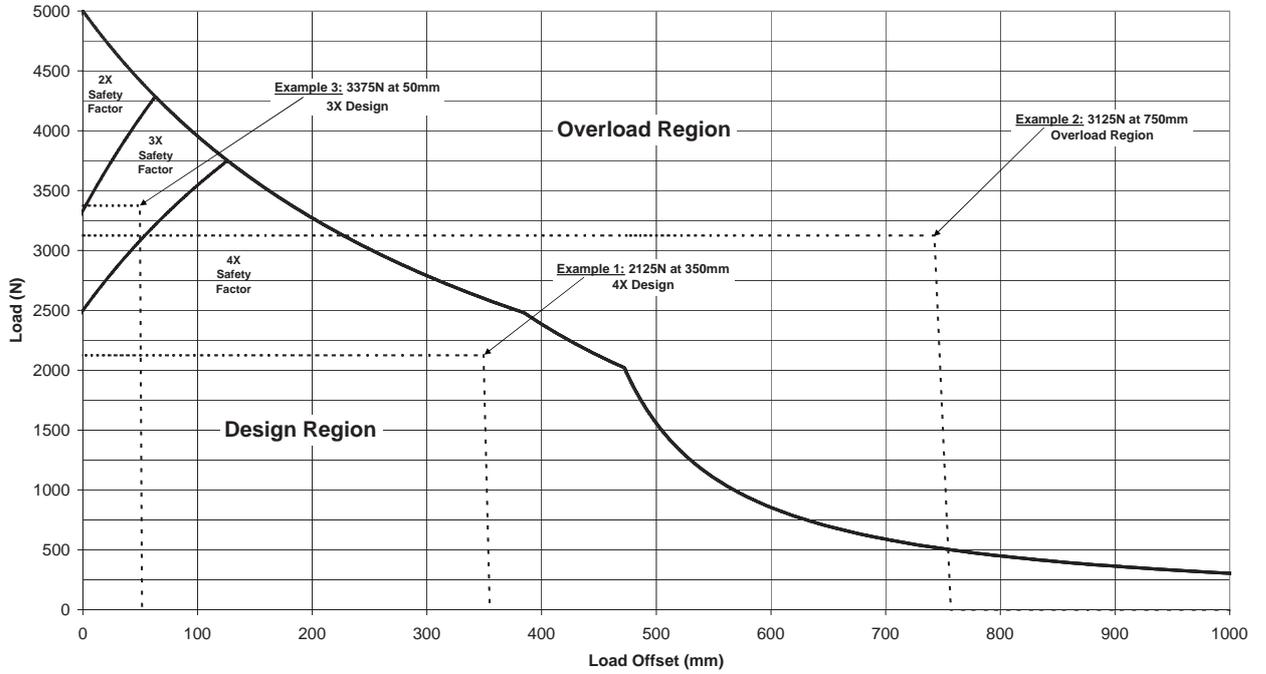
Bending Load for Actuator 2B (282XXX-5XXXX1XX)



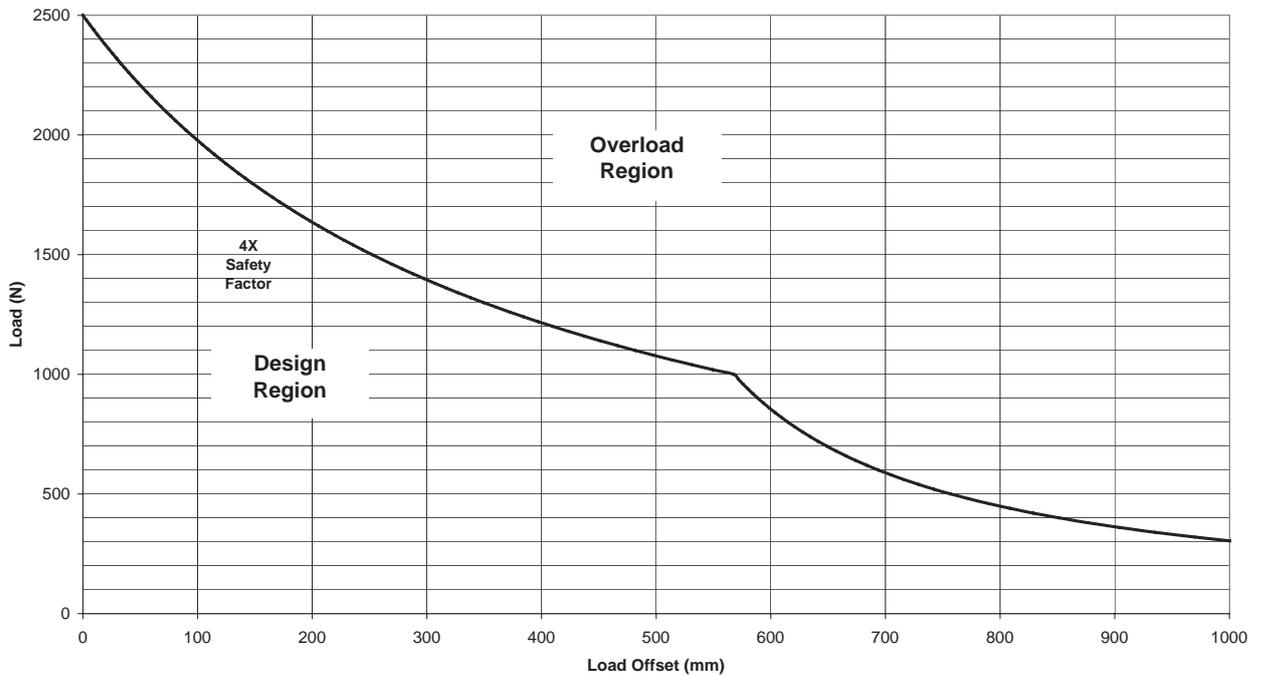
LC25

Bending Load:

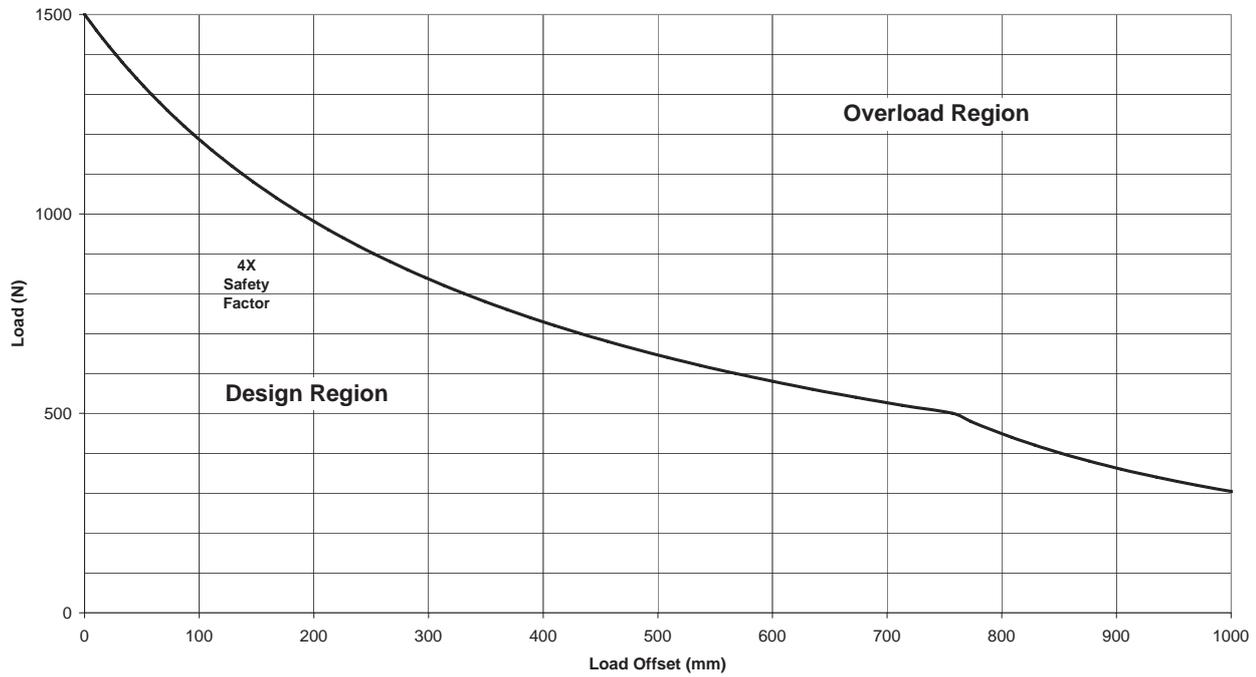
Bending Load for Actuator 5C (301X00-1XXXX4XX)



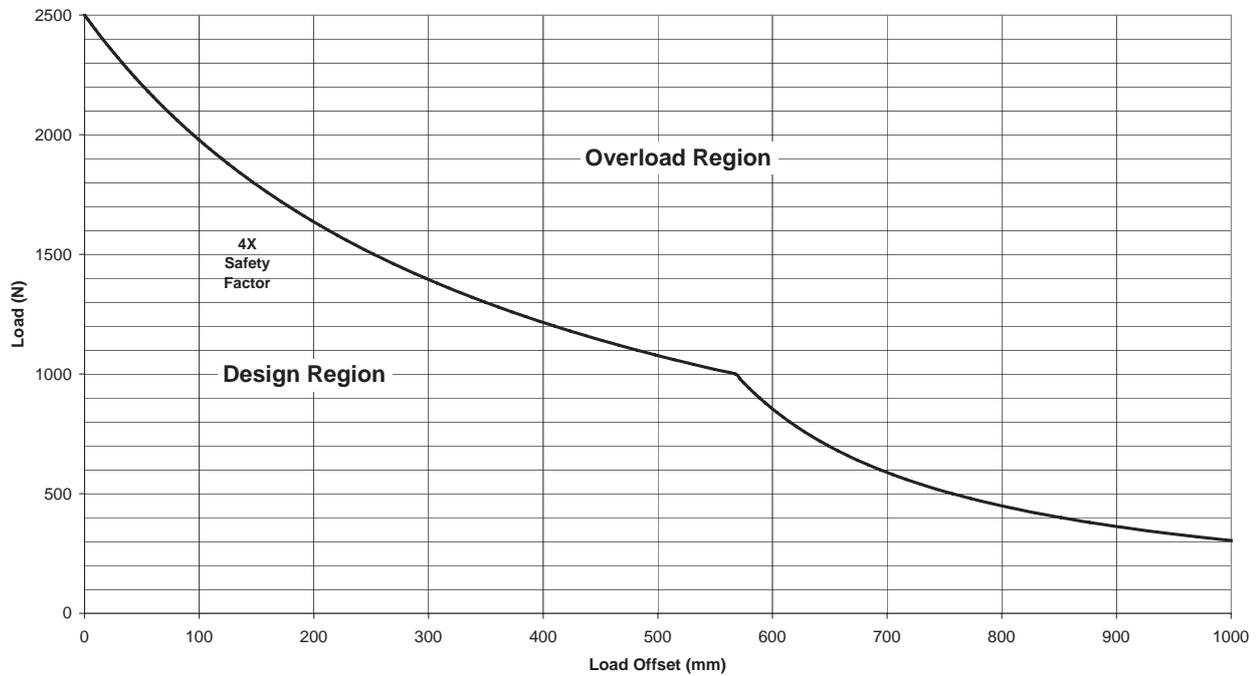
Bending Load for Actuator 5D (301X00-1XXXX0XX)



Bending Load for Actuator 5F (303XXX-5XXXX4XX)



Bending Load for Actuator 5E (302XX0-5XXXX4XX)



Specifications subject to change without prior notice.
 It is the responsibility of the product user to determine the suitability of LINAK A/S products for a specific application. LINAK will at point of delivery replace/repair defective products covered by the warranty if promptly returned to the factory. No liability is assumed beyond such replacement/repair.