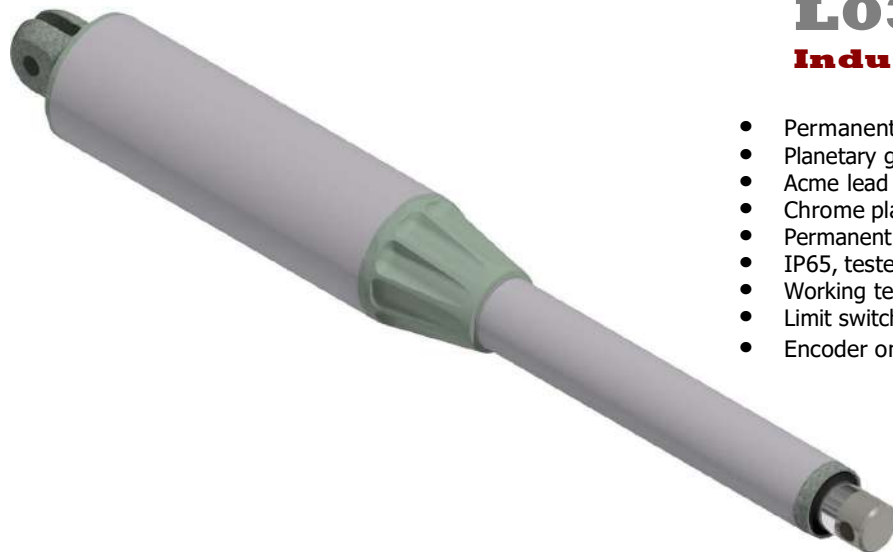




L03

Industrial Linear Actuator

- Permanent magnet DC motor
- Planetary gearbox
- Acme lead screw or ballscrew (VRS)
- Chrome plated steel push rod
- Permanent grease lubrication
- IP65, tested according to rule CEI EN 60529
- Working temperature range -10°C +60°C
- Limit switches on request
- Encoder on request

L03 (Vdc)						
Fmax (N)	Speed (mm/s)	Version	Motor size	Gearmotor speed (rpm)	Max Current for F max (A) 24Vdc**	Fs % base 5 min.
3000	20	M01	51	155	9	10
5000	10	M02	51	155	10,5	10
2000	30	M03	51	155	7,5	20

L03 VRS (ballscrew) (Vdc)						
Fmax (N)	Speed (mm/s)	Version	Motor size	Gearmotor speed (rpm)	Max Current for F max (A) 24Vdc	Fs % base 5 min.
5000	13	M01	51	155	5,5	30

* When strokes are longer than 350mm, check the stroke setup section

** For 12 Vdc power supply currents are doubled, and loads are 20% lower.

Before operating an actuator make sure you read and understand basic operational instructions shown on user manuals, available from our sales office.

This document displays most typical standard features and setups.

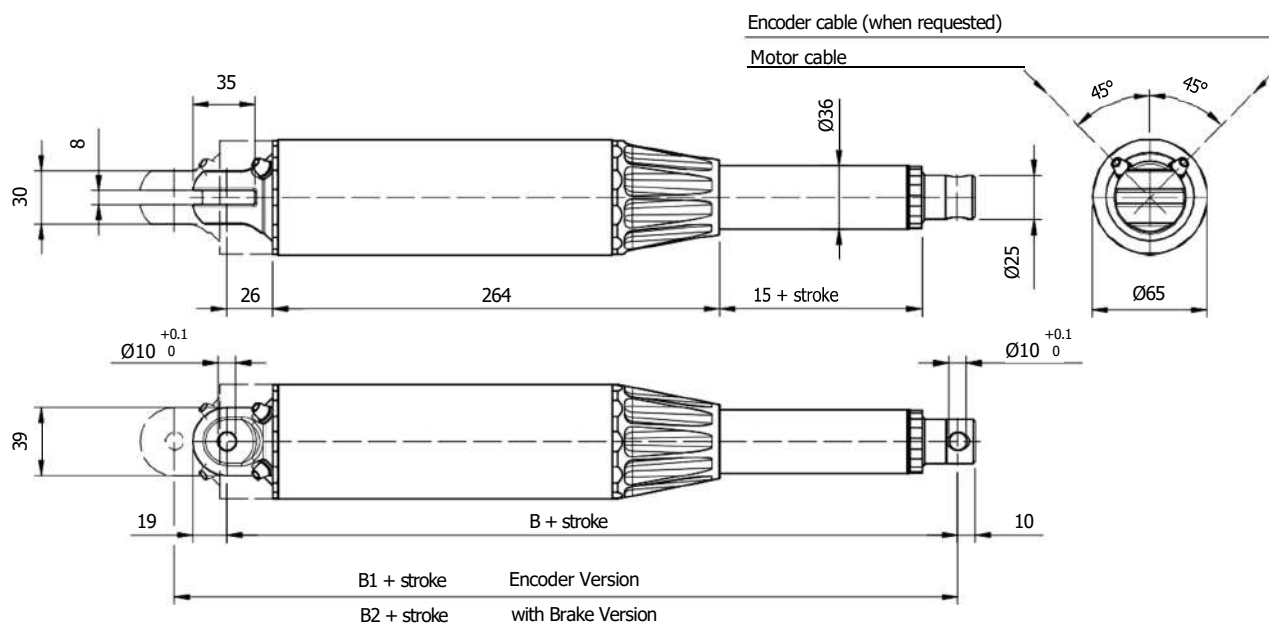
Actuators must not come to a mechanical stroke-end / mechanical lock to avoid failures.

Consider limit switches (MODEL L03-F or L03-FCM) or put them on a machine / frame

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GPS Coordinates: [S 25.98115° / E 028.06869°](#)

VERSION WITHOUT LIMIT-SWITCHES



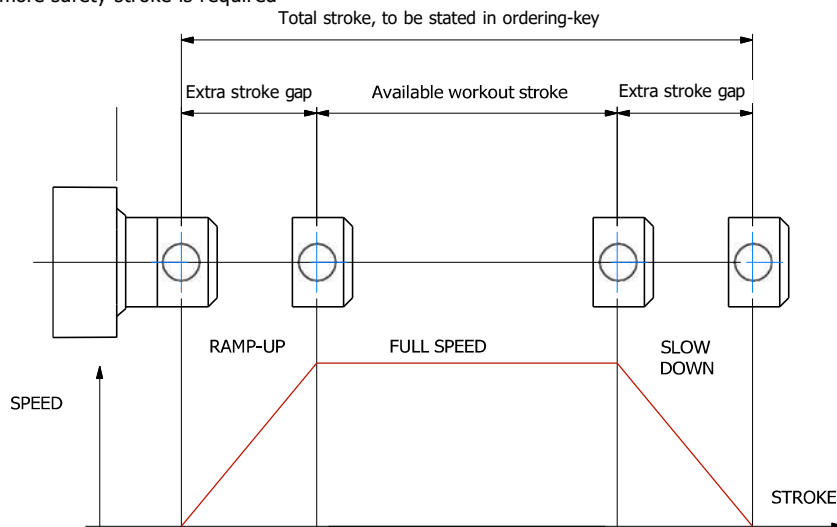
	DIMENSION	Stroke < to 320 mm.	Stroke > to 320 mm.
Version without Encoder and Brake	B	325 + stroke	336 + stroke
Version without Encoder (not compatible with brake version)	B1	355 + stroke	366 + stroke
Version without Brake (not compatible with encoder version)	B2	355 + stroke	366 + stroke

STROKE SETUP

Useful tips for handling stroke length and avoiding run-on-block collision.

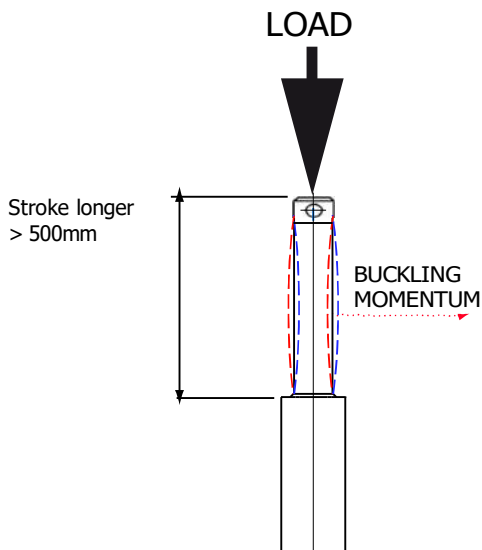
- When stroke is more than 350 mm, add 50 mm extra-stroke as guidance, and put corresponding value in ordering-key.
- **WARNING SPEED-TIMING ALONG STROKE LENGTH:** ramps are extremely important when speed is 30 mm/s! Inverter or PWM drive recommended!

The higher the speed, the more safety stroke is required



BUCK BUCKLING

When stroke is longer than 500mm, BUCKLING can be a risk: please check mounting with our offices and/or see user manuals.



IMPORTANT:

Long strokes, even if the load is low, can generate significant buckling momentum, as sketch shows. This happens when the actuator is in its all-open position. Therefore, we recommend 100mm extra non-usable stroke to act as bushing. Push tube will have this 100 mm-portion always inside the outer tube, improving guidance against buckling.

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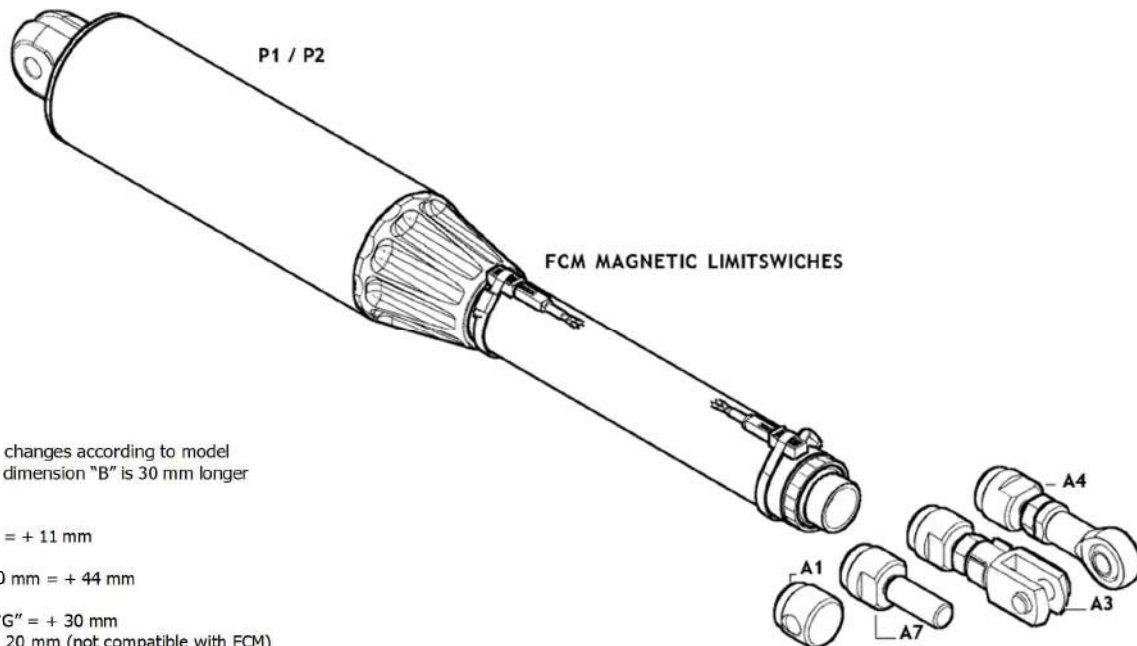
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ORDERING KEY

L03/0250/M02/24/E50/2FCM0/P1/A1/

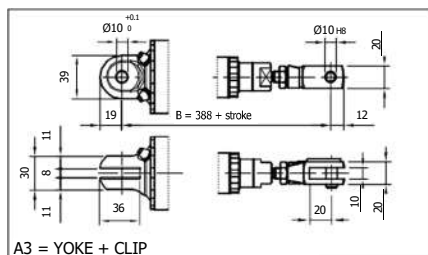
MODEL	L03 VRS			L03-FCM		
STROKE	es. 250 mm = 0250					
VERSION	M01 / M02 / M03 M00 = Not standard speed					
MOTOR	12 = 12 Vdc			24 = 24 Vdc		
ENCODER	Options pg.76			None: leave blank		
LIMIT SWITCH	None: leave blank					
REAR END	P1 = Yoke (standard)			P2 = Special (provide technical drawing)		
FRONT END	A1 = Eyelet (standard)		A3 = Yoke + Clip		A4 = Rod end	
					A7 = M10 male	

NOTE: Complete the ordering key adding the options you can find in the "Accessories and Options" section

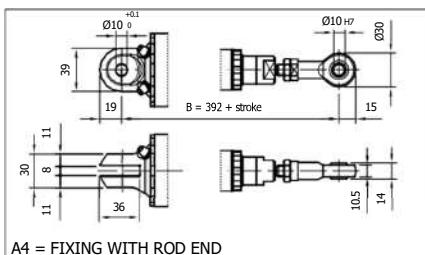


Note: "B" dimension changes according to model
Note: With encoder, dimension "B" is 30 mm longer

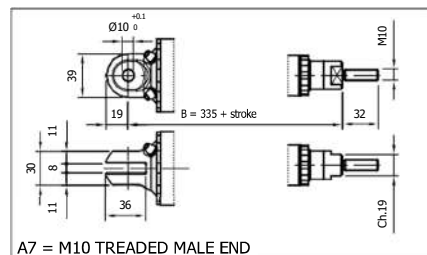
L03 = See pictures
L03 stroke > 320 mm = + 11 mm
L03-FCM = + 34 mm
L03-FCM stroke > 320 mm = + 44 mm
L03-VRS = + 40 mm
L03 with safety nut "G" = + 30 mm
L03 with bellows = + 20 mm (not compatible with FCM)



A3 = YOKE + CLIP



A4 = FIXING WITH ROD END



A7 = M10 TREADED MALE END