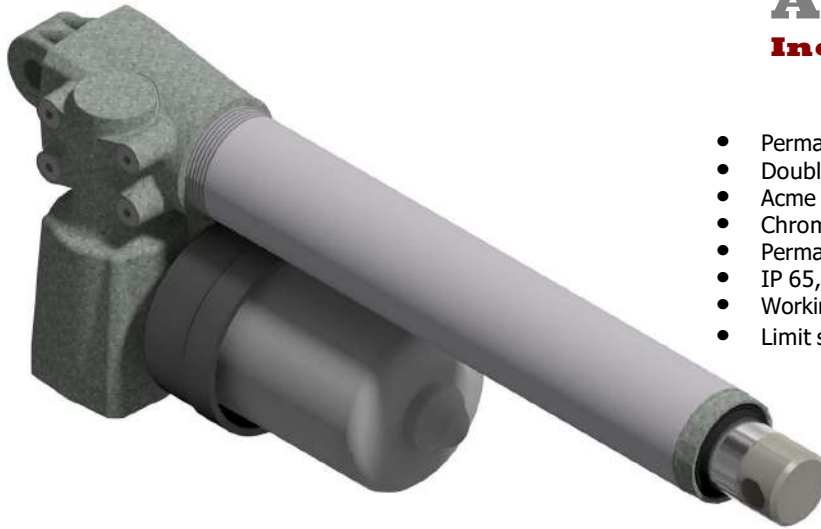




ALI-2P

Industrial Linear Actuator

- Permanent magnet motor 12-24 Vdc
- Double worm gearbox
- Acme lead screw or ballscrew (VRS)
- Chrome plated steel push rod
- Permanent grease lubrication
- IP 65, tested according to rule CEI EN 60529
- Working temperature range -10°C +60°C
- Limit switches, potentiometer and encoder on request

ALI2-P (Vdc)						
Fmax (N)	Speed (mm/s)	Version	Motor size	Motor speed (rpm)	Max Current for F max(A) 24Vdc **	Fs % base 5 min.
2400	30	M01	59	4000	9,5	10
3000	15	M03	59	4000	7	30
4200	10	M04	59	4000	9,5	10
4200	7	M05	59	4000	7	30
4200	2.5	M07	59	4000	3	30
4200	0.6	M09	59	4000	1	30

When strokes are longer than 350mm, BRAKEMOTOR IS RECOMMENDED

** 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.

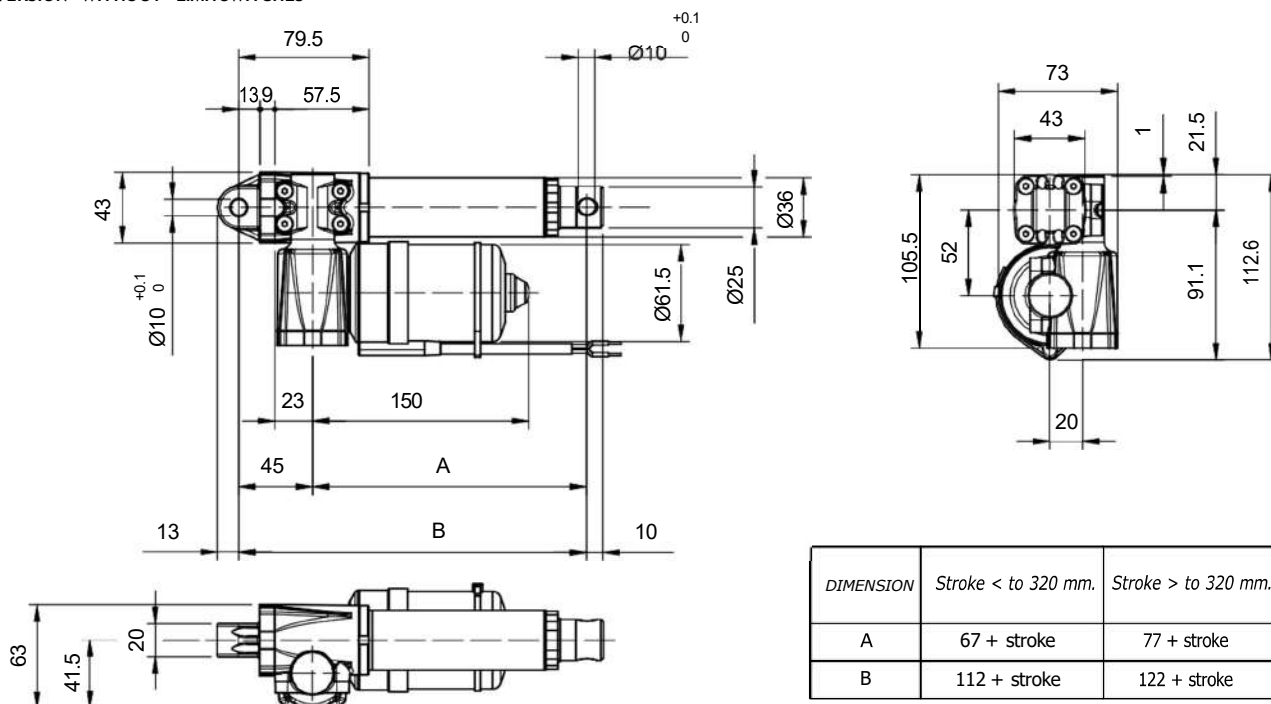
Actuators must not come to a mechanical stroke-end / mechanical lock to avoid failures.

Consider limit switches (MODEL ALI2-F or ALI2-FCM) or put them on a machine / frame.

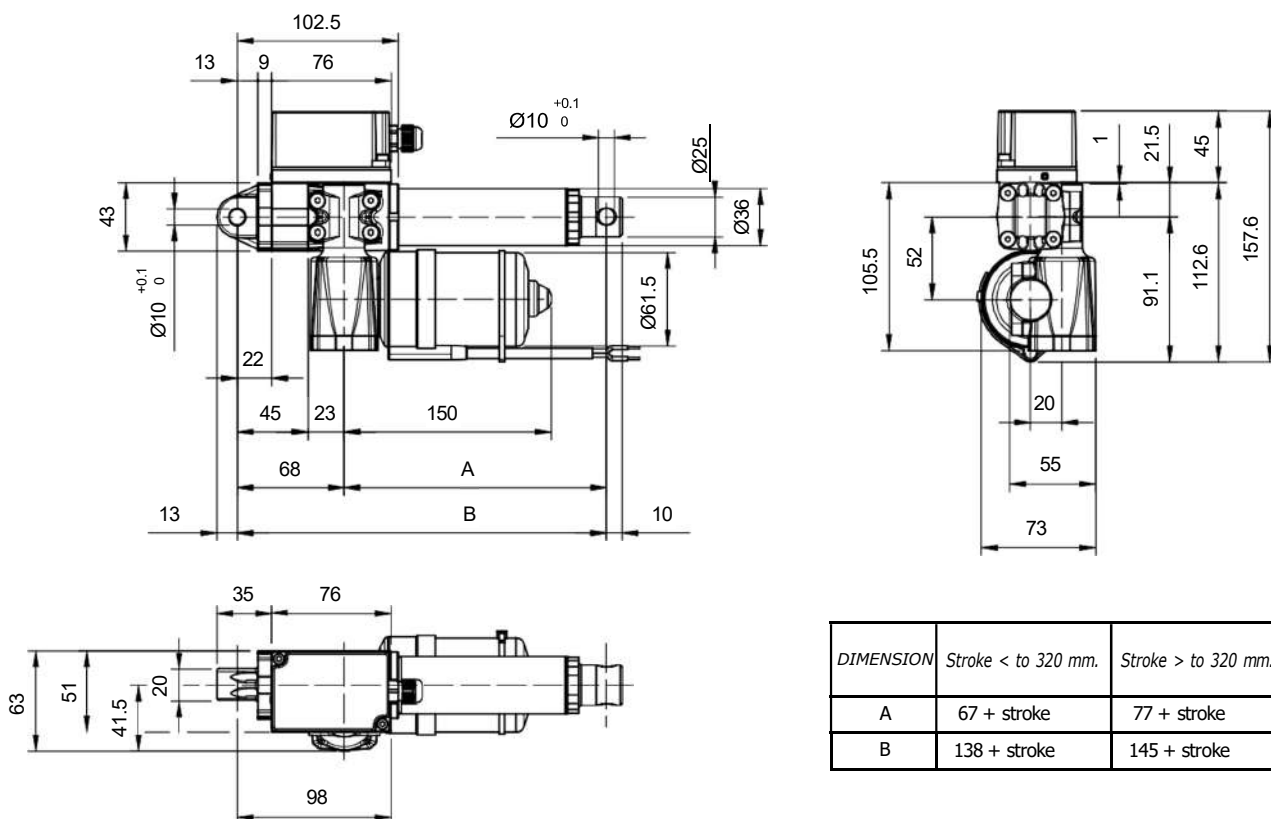
t: + (27) 011 468 1881 c: + (27) 074 465 1744
e: 01@BirCraft.co.za w: www.BirCraft.co.za

Address: 320 B Percheron Road, Kyalami, Midrand, 1684
GPS Coordinates: [S 25.98115° / E 028.06869°](https://www.google.com/maps/place/320+B+Percheron+Road,+Kyalami,+Midrand,+1684/@25.98115,28.02869,15z)

VERSION WITHOUT LIMITSWITCHES



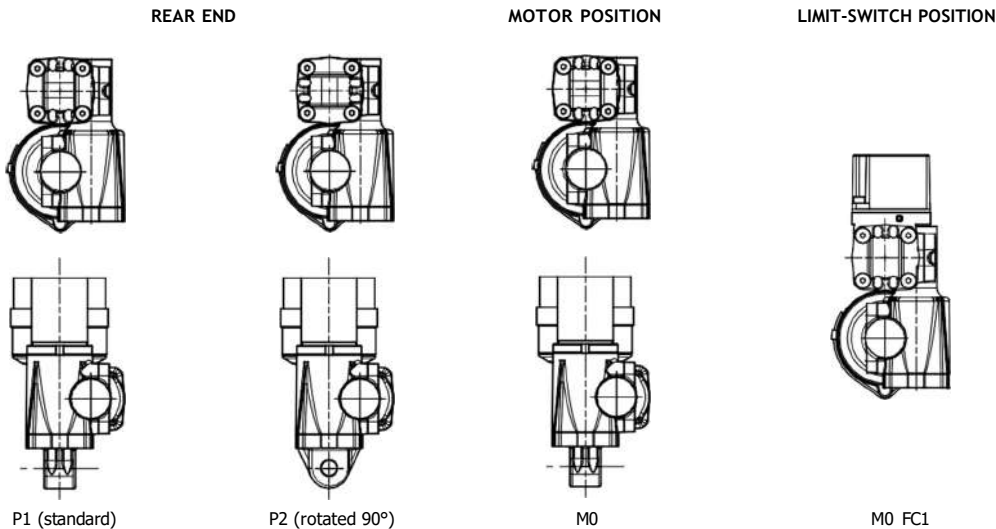
VERSION WITH LIMITSWITCHES



GUIDELINE DIMENSIONS ONLY

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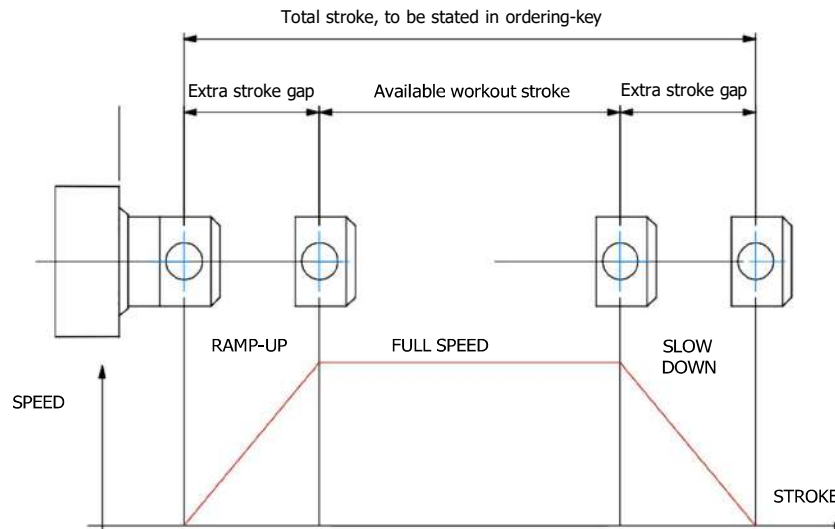
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STROKE SETUP

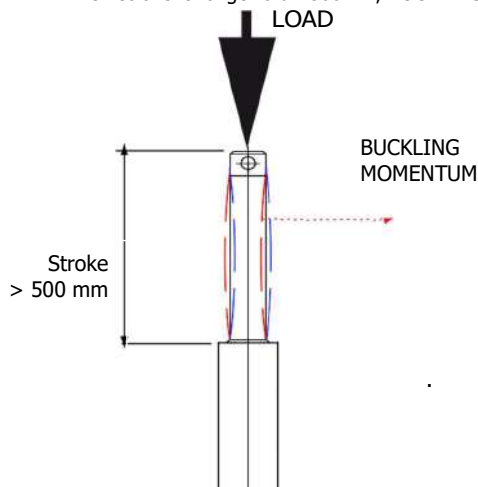
Useful tips for handling stroke length and avoiding run-on-block collision.

- 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.



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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ORDERING KEY EXAMPLE

MODEL _____ ALI2-P/0250/M01/24/M0/2FC1/POT01A/EO1/FC1/P1/A1/

ALI2-P ALI2-P-F ALI2-P-FCM

STROKE (mm) _____
es. 250 mm = 0250

VERSION _____
M01 / M03 / M04 / M05 / M07 / M09
M00 = Not standard speed

MOTOR _____
12 = 12 Vdc 24 = 24 Vdc

MOTOR POSITION _____
M0

LIMIT SWITCHES _____
2FC1 None: Leave blank

POTENTIOMETER _____
POT01A (1Kohm) POT10A (10Kohm) None: Leave blank

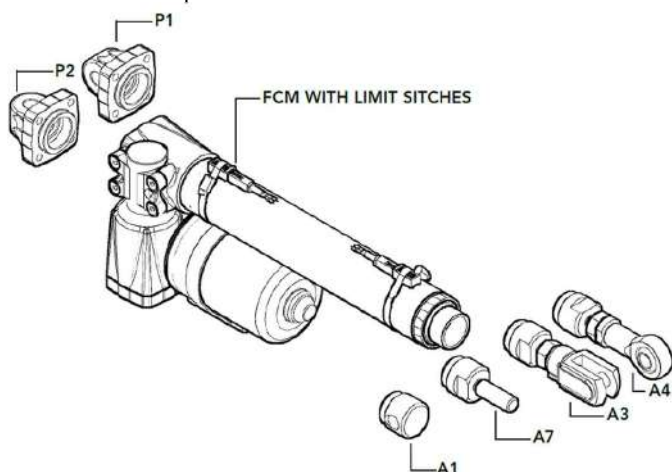
ENCODER _____
Options pg.76 None: Leave blank

LIMIT SWITCHES POSITION _____
FC1 None: Leave blank

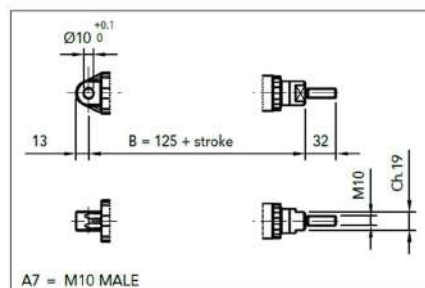
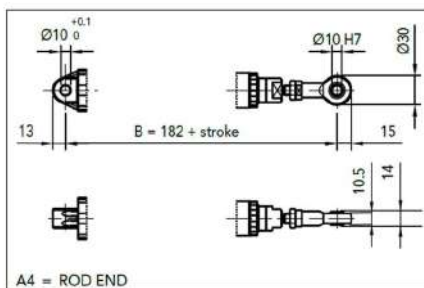
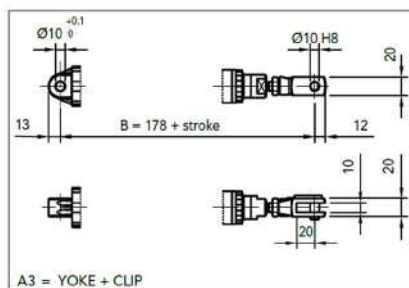
REAR END _____
P1 = Eyelet (standard) P2 = Eyelet (90°)

FRONT END _____
A1 = Eyelet (standard) A4 = Rod end A3 = Yoke + Clip 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
ALI2-P= See pictures
ALI2-P stroke > 320 mm = + 10 mm
ALI2-PF = + 23 mm
ALI2-PF stroke > 320 mm = +33
ALI2-P-FCM = + 33 mm
ALI2-P-FCM stroke > 320 mm = +43 mm
ALI2-P with safety nut "G" = + 30 mm
ALI2-P with bellows = + 20mm



GUIDELINE DIMENSIONS ONLY