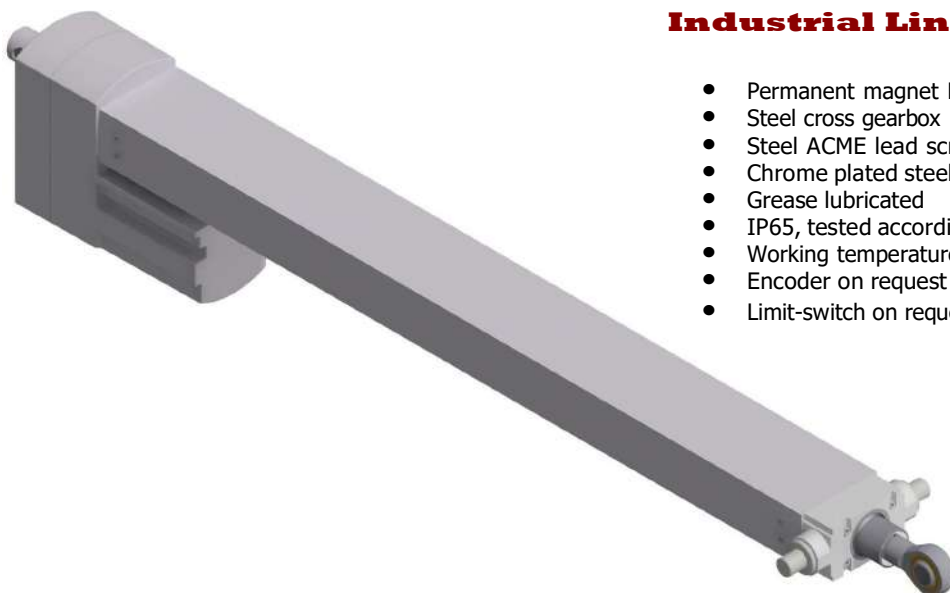


HP5

Industrial Linear Actuator



- Permanent magnet DC motor 12-24 V
- Steel cross gearbox
- Steel ACME lead screw
- Chrome plated steel push rod
- Grease lubricated
- IP65, tested according to rule CEI EN 60529
- Working temperature range -10°C +60°C
- Encoder on request
- Limit-switch on request

HP5 (Vdc)						
Fmax (N)	Speed (mm/s)	Version	Motor size	Motor speed (rpm)	Max Current for F max (A) 24Vdc **	Fs % base 5 min.
15000	2	M01	59	3400	6	30
10000	4	M02	63	3400	6	30
15000	3	M03	59	4900	9	10
10000	5,5	M04	63	4900	9	10
4000	20	M05	63	6000	10	10

When the stroke is 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.

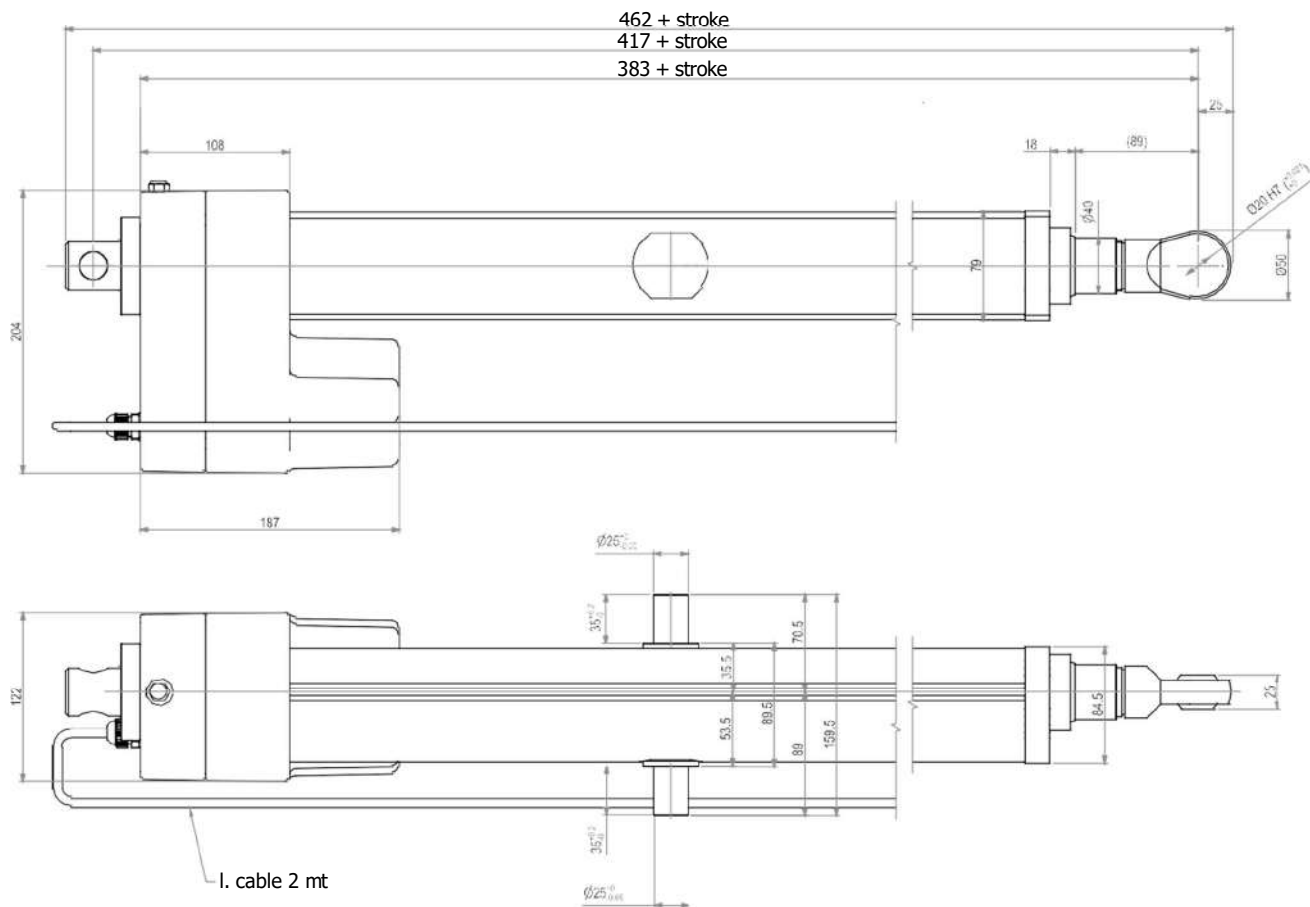
This document displays most typical standard features and setups.

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

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°](#)

VERSION WITHOUT LIMIT-SWITCH

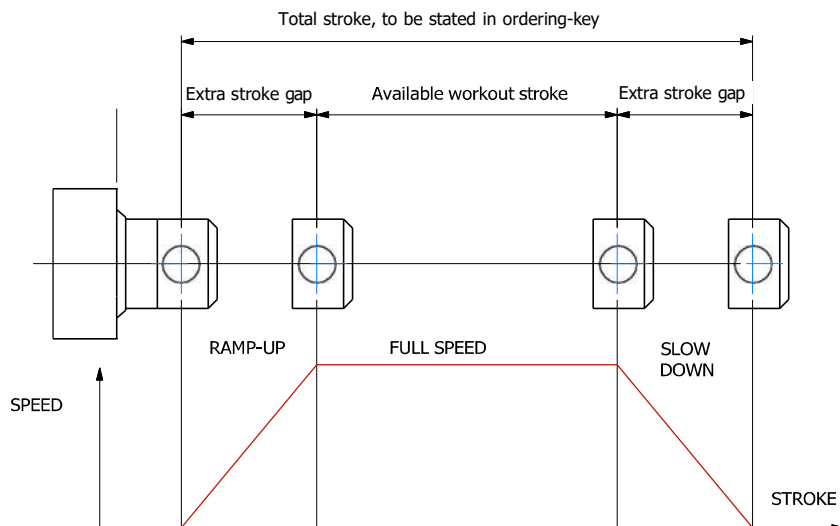


The pivot's position can be arranged to the customer's needs. Contact our staff for more information.

STROKE SETUP

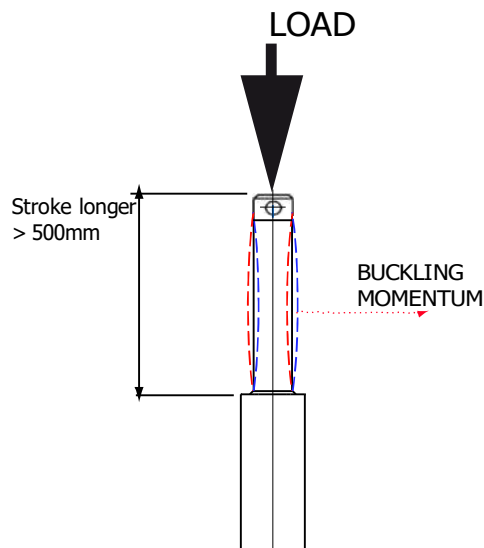
Useful tips for handling stroke length and avoiding run-on-block collision.

- 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.

ORDERING KEY EXAMPLE

HP5/0250/M02/AC-24-63-3400/FECC/E01/P1/A1/A+L/

MODEL

HP5

STROKE

es. 250 mm = 0250

VERSION

M01 / M02 / M03 / M04 / M05

M00 = Not standard speed

MOTOR

Indicate version, voltage, type, size, rpm

BRAKE

FECC AS-24 Vdc: brake with separated power supply

None: Leave blank

ENCODER

Options pg.76

None: Leave blank

REAR END

P0 without end (available only with OP option)

P1 eyelet (standard)

P2 eyelet90°

P3 special rear end (technical drawing needed)

FRONT END

A0 without end

A1 eyelet

A3 yoke + clip

A4 ball joint

A7 male M20x1,5

A9 special front end (technical drawing needed)

OPTIONS

A stainless-steel version (push rod and front end)

FCD diode-wired mechanical limit switches

FCM magnetic limit switches

FX anti-corrosion protective painting

L anti-rotation device

OP swiveling version

VARIANTS

Drawing Nr.

