

- 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 ACTUATOR MAKE SURE YOU READ AND UNDERSTOOD BASIC OPERATIONAL INSTRUCTIONS SHOWN ON USERMANUALS, AVAILABLE FROM WEBSITE.

THIS DOCUMENT DISPLAYS MOST TYPICAL STANDARD FEATURES AND SETUPS: CONTACT OUR OFFICES FOR MORE. ACTUATOR SHALL NOT COME TO MECHANICAL STROKE-END, TO AVOID FAILURES. CONSIDER MECVEL's LIMITSWITCHES ( MODEL ALI2-F or ALI2-FCM) OR PUT THEM ON MACHINE/FRAME.



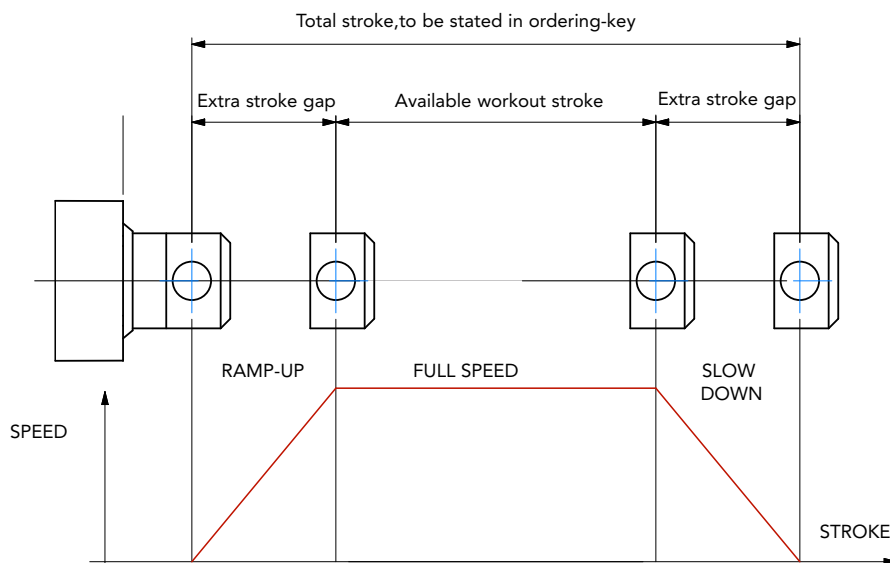
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## STROKE SETUP

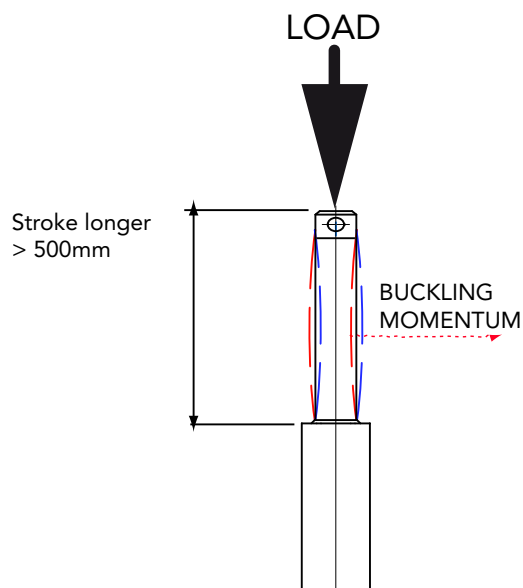
Useful tips for handling stroke and avoid run-on-block collision.

- 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 STROKELENGTH:** ramps are extremely important when speed is >30 mm/s!!! Inverter or PWM drive recommended!
- The more speed raises the more extra stroke has to raise too.



## BUCKLING

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



### IMPORTANT:

Long strokes, even if load is low, can generate significant buckling momentums, as sketch shows. This happens when actuator is in its all-opened position: that's the reason why we recommend 100 mm extra-stroke. Pushtube will have this 100 mm-portion always inside the overtube, improving guidance against buckling.

For more information on this, contact our office.

**HP5/0250/M02/CC-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.

