

Actuator LA32

The LA32 is a powerful actuator that can be supplied with a ball screw spindle to give outstanding performance. The ideal choice for a wide range of applications including adjustment of hospital beds.

The LA32 has many special options including a safety nut, splines, quick release (F) and an optional protection class up to IPX6 standard.



Features and options:

- 24V DC permanent magnet motor
- Thrust up to 6000 N (with ball screw)
- Stainless steel piston rod
- High-strength plastic housing protects motor and gears
- Elegant and compact design with small installation dimensions
- Protection class: IPX1
- Colour: black
- 2250 mm straight cable with 6.3 mm jack plug
- Low noise level: 46 dB (A); measuring method DS/EN ISO 3743-1, actuator not loaded
- LA32K with ball screw and double-acting brake (i.e. push and pull/both directions)
- Protection class: IPX5 or IPX6
- Reed-switch for exact positioning (8 pulses per spindle revolution)
- LA32 with 5 mm pitch F: Manual quick release
- LA32 with 5 mm pitch FH: Manual quick release with dampened movement
- Mechanical splines function (push only)
- Electrical splines function, built-in micro-switch in back fixture, the actuator can therefore only be used for push. (Only on 01 and 02 back fixture)
- LA32K with ball screw and double-acting brake (i.e. push and pull/both directions)
- LA32KAS with ball screw and safety nut
- LA32KSM with ball screw, safety nut and mechanical splines
- Available with 0.2 m or 0.4 m coiled cable
- LA32JKSM available with 2-speed facility for the LINAK JUMBO SYSTEM
- CS32; electronic limit switch (built-in)

Usage:

- Duty cycle: Max. 10% or 2 minutes continuous use followed by 18 min. not in use
- Ambient temperature +5° to +40° C
- For use with LINAK control boxes CB8, CB12, CB14 and CS16 PCB or internal CS32 PCB
- Should LA32 be used with a non LINAK control unit, please ask the nearest LINAK representative for further details
- Approvals: IEC 60601-1:2005, 3rd edition, ANSI / AAMI ES60601-1:2005, 3rd edition and CAN / CSA-22.2 No 60601-1:2008 approved

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Accessories::

- CS16; electronic limit switch
- Optical encoder
- SLS: safety limit switch



Maximum load in pull = 2000N

Technical specifications:

Type	Spindle pitch (mm)	Thrust max. (N)	*Self-lock max. (N)	Stroke length							Typical speed 0/full load (mm/s)	Typical amp. 24V at full load (A)
321xxx+00xxx4xx	3	4000	4000	100 ^P	150 ^P	200 ^P	250 ^P	300 ^P	350	400	7 / 5.5	3.5
322xxx+00xxx4xx	6	3000	2000	100 ^P	150 ^P	200 ^P	250 ^P	300 ^P	350 ^P	400 ^P	13.8 / 13 (2000 N)	3 (2000 N)
322xxx+40xxx4xx	6	3000	3000	100 ^P	150 ^P	200 ^P	250 ^P	300 ^P	350 ^P	400	13.6 / 8.5	4.5
32Kxxx+x0xxx4xx	4	6000	6000	-	150 ^P	200 ^P	250 ^P	300 ^P	350	400	8.7 / 6.8	4.7
32Kxxx+10xxx4xx	4	6000	6000	-	150 ^P	200 ^P	250 ^P	300 ^P	350	400	8.7 / 6.8	4.7
32Kxxx+30xxx4xx	4	6000	6000	-	-	-	-	300 ^P	350	400	8.7 / 6.8	4.7
328xxF+x0xxx4xx	5	2800	2800	100 ^P	150 ^P	200 ^P	250 [#]	300 [#]	-	-	11 / 9.8	3.5
32Kxxx+30xxx3xx	4	7500	6500	-	-	-	-	300 ^P	350	400	15 / 6.5 (7500 N)	9.5 (7500 N)

The above measurements are made in connection with a CB12, the LA32JKSM with a CBJ1 high speed.

P = Stroke lengths where potentiometer is possible as standard

- * LINAK control boxes are designed so that they will 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 above mentioned self-locking ability.

= Not with spindle potentiometer (stroke length max. 220 mm)

K = Ball screw

KAS = Ball screw with safety nut

KSM = Ball screw with splines and safety nut

R = Reed-switch

F = Manual quick release

FH = Manual quick release with dampened movement

KAS and **KSM** are only available on LA32K (with ball screw)

Ordering example:

Graphs:

Speed (mm/s)

Thrust (N)

6mm pitch

5mm pitch

3mm pitch

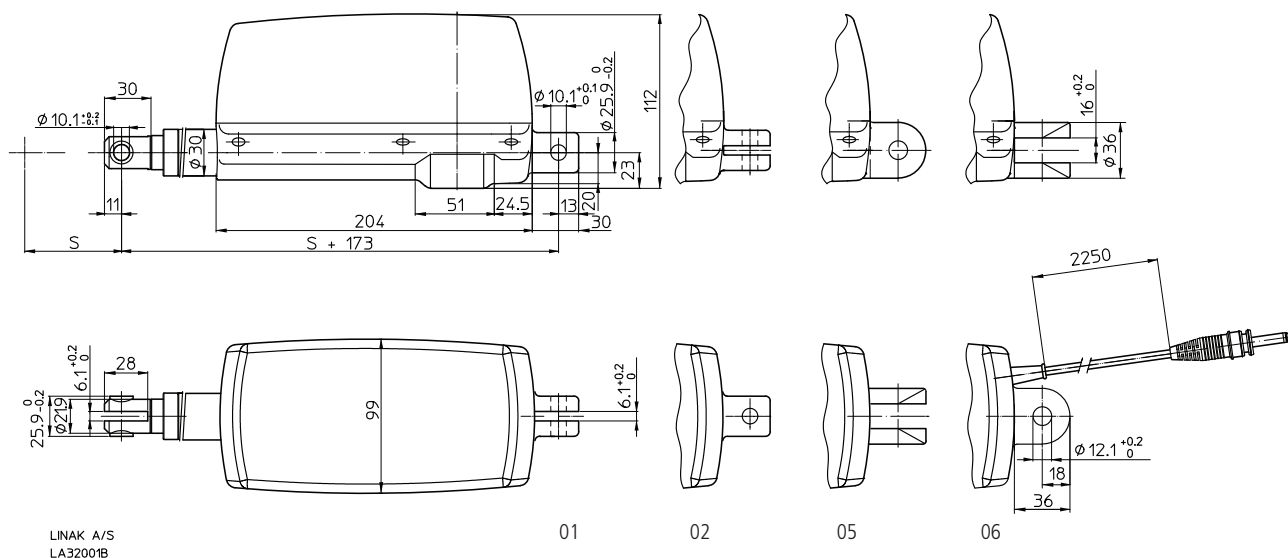
Ball screw

A line graph showing the relationship between Thrust (N) on the x-axis and Amp. on the y-axis. The x-axis ranges from 0 to 6000 N with major grid lines every 1000 N. The y-axis ranges from 0 to 5 with major grid lines every 0.5 units. Four lines originate from the point (0, 0.4) and represent different screw pitches: 6mm pitch (steepest), 5mm pitch, 3mm pitch, and Ball screw (shallowest). The 6mm pitch line reaches an amp of 4.5 at 3000 N. The 5mm pitch line reaches an amp of 3.5 at 3000 N. The 3mm pitch line reaches an amp of 2.5 at 3000 N. The Ball screw line reaches an amp of 1.5 at 3000 N.

Thrust (N)	6mm pitch (Amp.)	5mm pitch (Amp.)	3mm pitch (Amp.)	Ball screw (Amp.)
0	0.4	0.4	0.4	0.4
1000	1.4	1.2	1.0	0.8
2000	2.4	2.2	1.8	1.4
3000	4.5	3.5	2.5	1.5
4000	-	-	3.5	2.2
5000	-	-	4.5	3.0
6000	-	-	-	3.8

Measurements are made in connection with a CB12

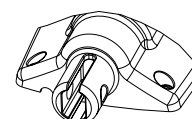
Dimension:



Installation dimensions:

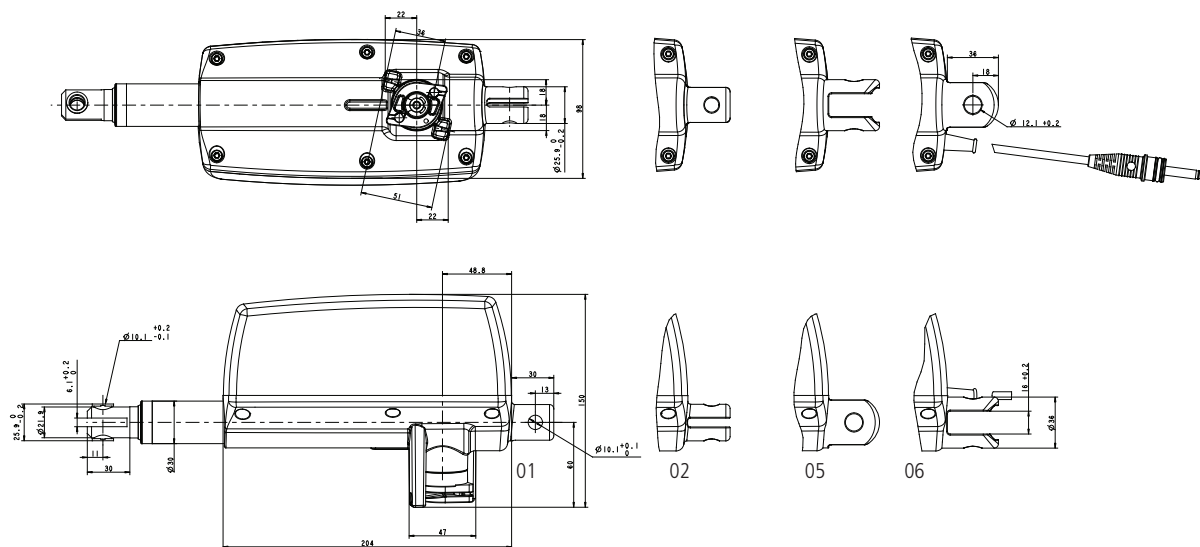
(Min. install dim. 273 mm)

S + 173: (with/without safety nut)
 S + 181: (LA323. with/without safety nut)
 S + 184: with splines
 S + 198: with splines and safety nut
 S + 210: LA32K, LA32KAS, LA32 with safety nut
 S + 215: with brake
 S + 267: LA32KSM



3D view of the back fixture.
 (here type "01" is shown.
 Drawing no.: 0321200

LA32 with quick release:



Drawing no.: LA32F001C

Install. dimensions:

S + 173: LA32.F
 S + 196: LA32FH

Terms of use

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