PRODUCT DATA SHEET

ACTUATOR LA32

Features:

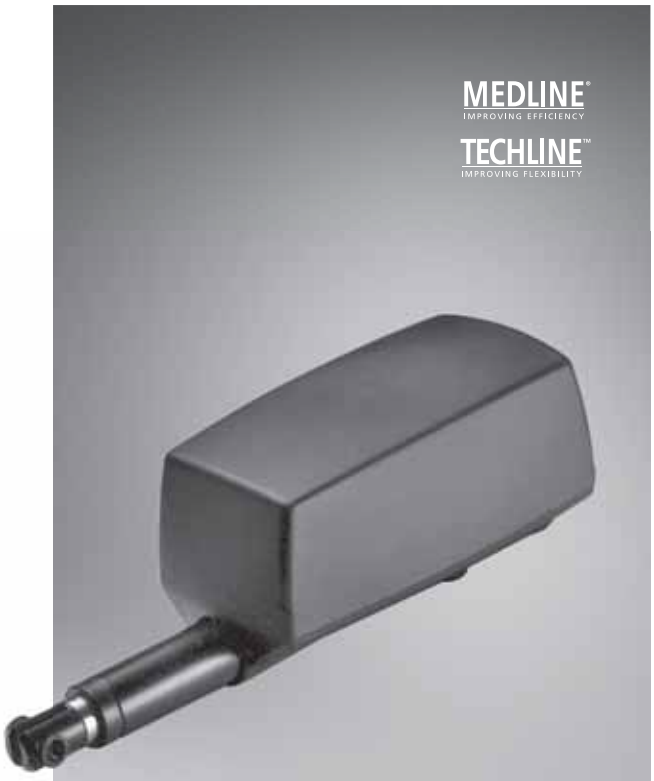
- *24 V DC permanent magnet motor*
- *Thrust up to 6000 N (with ball screw)*
- *Stainless steel piston rod*
- *High-strength plastic housing protects motor and gears*
- *Elegant and compact design with small installation dimensions*
- *Protection class: IP 51*
- *Colour: black*
- *2250 m straight cable with 6.3 mm jack plug*
- *Low noise level: 46 dB (A); measuring method DS/EN ISO 3746, actuator not loaded*
- *LA32K with ball screw and double-acting brake (i.e. push and pull / both directions)*

Options:

- *Protection class: IP 65 or IP 66*
- *Reed-switch for exact positioning (8 pulses per spindle revolution)*
- *LA32 with 5 mm. pitch F: Manual quick release*
- *LA32 with 5 mm. pitch FW: Manual quick release with freewheeling (push only)*
- *LA32 with 5 mm. pitch FWH: Manual quick release with freewheeling (push only) and dampened movement (reduced lowering speed with quick release)*
- *LA32 with 5 mm. pitch FH: Manual quick release with dampened movement*
- *LA32 with 5 mm. pitch FWHP: Manual quick release with freewheeling (push only), dampened movement and potentiometer*
- *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 with 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*
- *Mounting bracket for CB8-T/A control boxes*
- *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, CB18 and CS16 PCB or internal CS32 PCB*



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 IP 66.

LINAK®
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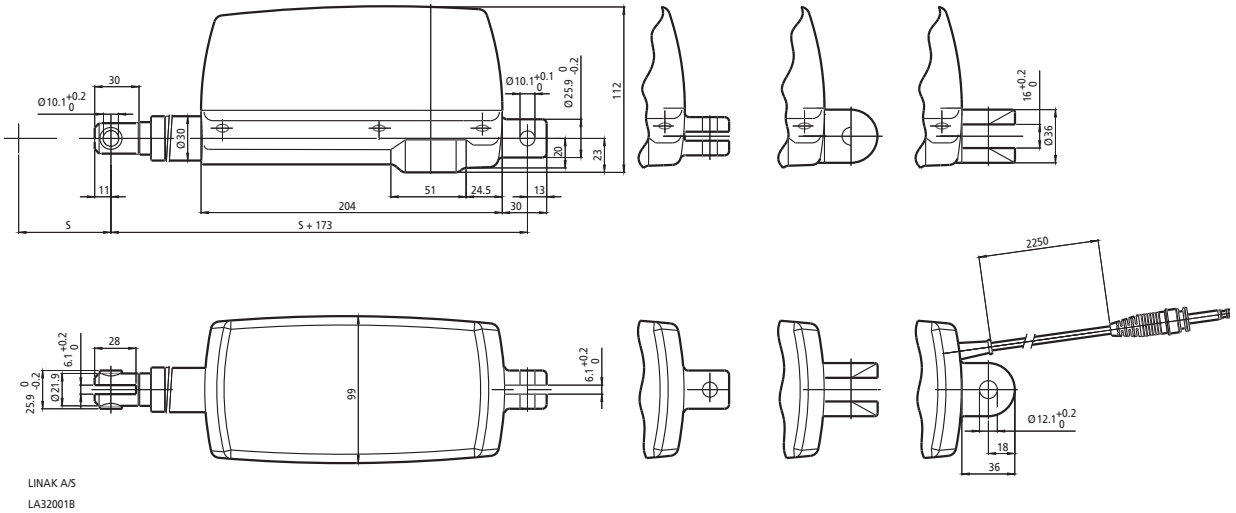
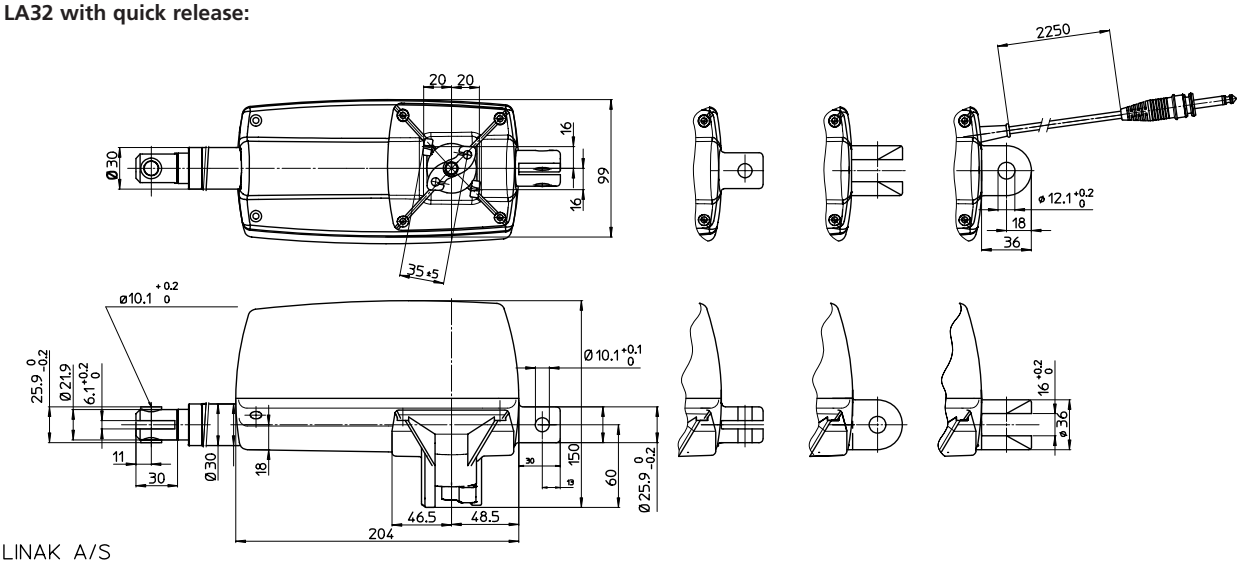
LA32:



Install. dimensions: S + 173: (with/without safety nut)
(Min. install dim. 273 mm) S + 184: with splines
S + 198: with splines and safety nut
S + 210: LA32K, LA32KAS and LA32 with safety nut
S + 215: with brake
S + 267: LA32KSM

LA32 with quick release:



Install. dimensions: S + 173: LA32.F
S + 196: LA32FH
S + 206: LA32FW
S + 216: LA32FWH
S + 238: LA32FWHP/FP

LA32

Ordering example:

32 1 1 0 0 + 0 0 2 5 0 4 0 0

Cables:

JACK CABLE

0 = *Straight 2.3 m
1 = *Straight 1.05 m
2 = *Coiled 0.4 m
3 = *Coiled 0.2 m
4 = Straight without plug 0,5 m (potentiometer) always black
5 = Straight without plug 1 m (CS) always black
X = *Other cable/length
*always the same colour as the actuator

Protection class:

0 = IP51
1 = IP65
2 = IP66 (washable)

Motor type:

0 = 24 V (24)
1 = 24 V S-motor (04)
2 = 12 V S-motor (08)
3 = 24 V Jumbo motor (94)
4 = 24 V L-motor will always have to be chosen for use with a LINAK control box
5 = 12 V motor (12)

Stroke length:

XXX = mm Max 400 mm for 3-6 mm pitch (up to 600 mm with special (20%) items)
Max 500 mm for 9-12 mm pitch (up to 600 mm with special (20%) items)
Min 100 mm

Install. dim.:

0 = Standard
X = Other installation dimension

Option:

0 = None
1 = Safety nut
2 = Steel splines
3 = Steel splines with safety nut
4 = Brake
5 = Brake with safety nut

Colour:

\+ = Grey
\- = Black

Option:

0 = None
F = Quick release (F)
W = Free wheel (FW)
H = Quick release, dampened movement (FH)
E = Quick release, Free Wheel, dampened movement (FWH)

Positioning C/S optical encoder:

0 = None
P = Potentiometer 1 kohm
L = Potentiometer 5 kohm
T = Potentiometer 10 kohm
Y = CS 32A mount. (not IP65/66)
Z = CS 32B mount.
C = CS 32C mount.
R = Reed switch
D = Optical encoder

Back fixture:

1 = Standard
2 = Turned 90 degrees
A = Standard with El-splines
B = Turned 90 degrees with El-splines
5 = Large standard
6 = Large turned 90 degrees

Spindle type:

1 = 3 mm (1-threaded)
2 = 6 mm (2-threaded)
3 = 9 mm (3-threaded)
4 = 4 mm (2-threaded)
5 = 2,5 mm (1-threaded)
7 = 12 mm (4-threaded)
8 = 5 mm (2-threaded)
K = Ball spindle

Actuator type:

32 = LA32

Technical specifications:

New Type No. and Old Type No.	Spindle pitch (mm)	Thrust max. [N]	*Self-lock Max. [N]*	Stroke length [mm]							Typical Speed 0/full load [mm/s]	Typical amp. 24V at full load [A]
321xxx+00xxx4xx LA32.1	3	4000	4000	100[P]	150[P]	200[P]	250[P]	300[P]	350	400	7/5.5	3.5
322xxx+00xxx4xx LA32.2	6	3000	2000	100[P]	150[P]	200[P]	250[P]	300[P]	350[P]	400[P]	13.8/13 (2000N)	3 (2000N)
322xxx+40xxx4xx LA32.2B	6	3000	3000	100[P]	150[P]	200[P]	250[P]	300[P]	350	400	13.6/8.5	4.5
32Kxxx+x0xxx4xx LA32.K	4	6000	6000	-	150[P]	200[P]	250[P]	300[P]	350	400	8.7/6.8	4.7
32Kxxx+10xxx4xx LA32.KAS	4	6000	6000	-	150[P]	200[P]	250[P]	300[P]	350	400	8.7/6.8	4.7
32Kxxx+30xxx4xx LA32KSM	4	6000	6000	-	-	-	-	300[P]	350	400	8.7/6.8	4.7
328xxF+x0xxx4xx LA32.F, FW, FWH, FH, FWHP	5	2800	2800	100[P]	150[P]	200[P]	250#	300#	-	-	11/9.8	3.5
32Kxxx+30xxx3xx LA32JKSM (High)	4	7500	6500	-	-	-	-	300[P]	350	400	15/6.5 (7500N)	9.5 (7500N)

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

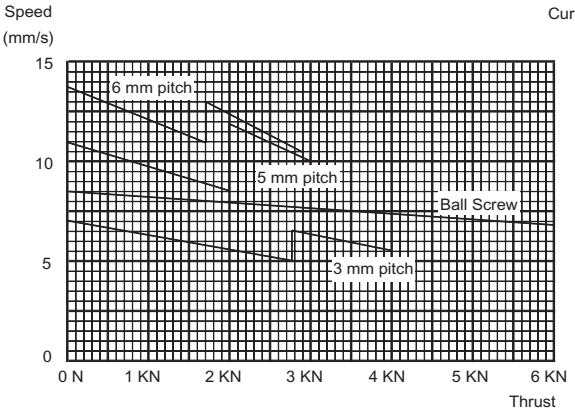
[P] = Stroke lengths where potentiometer is possible as standard

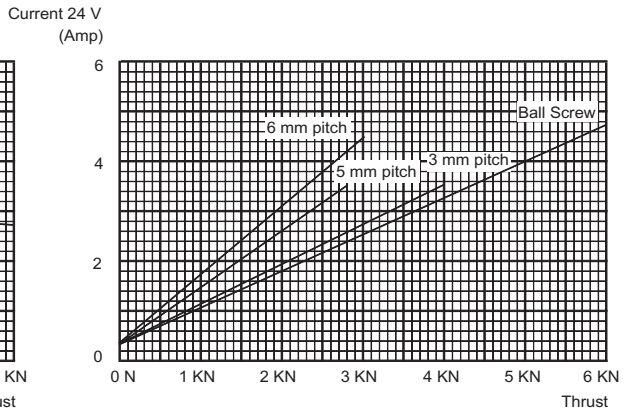
* LINAK control boxes are designed so that they will short-circuit the motor terminals (poles) of the actuator(s) when the actuator(s) are not running. This solution gives the actuator(s) a higher self-locking ability. If the actuator(s) are not connected to a LINAK control box the terminals of the motor 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
FW = Manual quick release with freewheeling
FH = Manual quick release with dampened movement
FWH = Manual quick release with freewheeling and dampened movement
FWHP = Manual quick release with freewheeling, dampened movement and potentiometer (stroke length max. 220 mm)

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





Measurements are made in connection with a CB12