

Product data sheet

Characteristics

PAS43E0500

portal axis PAS E - toothed belt - ball - payload
25 kg - stroke 500 mm




Main

Range of product	Lexium PAS E
Product or component type	Portal axis
Product specific application	For 1 direction
Load position	On carriage
Drive type	Toothed belt
Guide type	Ball

Complementary

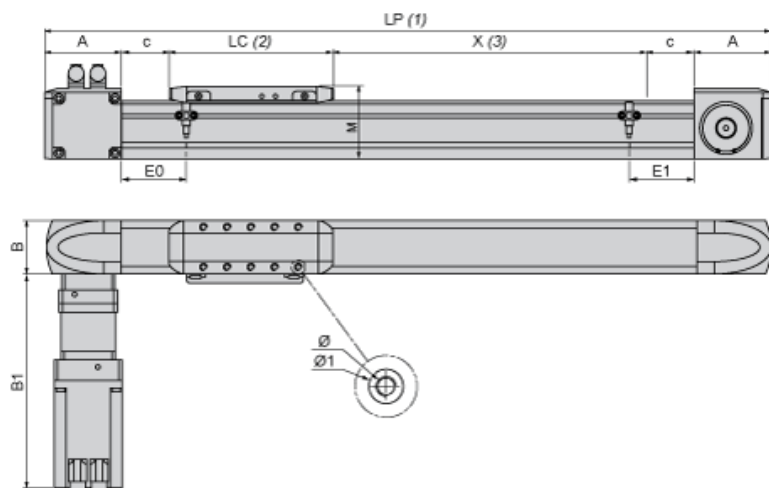
Operating position	Horizontal
Permanent permissible load	25 kg
Distance per revolution	205 mm
Operating force	<= 4410 N for Z axis <= 4410 N for Y axis <= 1100 N for X axis
Maximum actuation speed	2 m/s
Maximum acceleration	15 m/s ²
Torque value	<= 162 N.m for Z axis <= 162 N.m for Y axis <= 42 N.m for X axis <= 36 N.m driving torque
Operating travel	500 mm
Product weight	29.4 kg total 2.1 kg of carriage 18 kg at 0 stroke with carriage and motor
Repeat accuracy	+/- 0.05 mm
Outer dimension	80 x 80 mm
Mechanical service life	30000 km
Associated module	LXM32.D18N4 servo drive (not supplied) PLE80 planetary gearbox, reduction ratio: 5:1 (supplied) BMH1002P06A2A servo motor (supplied)

Offer Sustainability

Sustainable offer status	Not Green Premium product
Product environmental profile	Available  Download Product Environmental
Product end of life instructions	Need no specific recycling operations

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Size Characteristics



- (1) LP : total length of axis
- (2) LC : length of carriage
- (3) X : Stroke, refer to product characteristics.

A	mm	110
in.	4.33	
B	mm	80
in.	3.15	
B1	mm	322
in.	12.68	
c	mm	25
in.	0.98	
E0	mm	62
in.	2.44	
E1	mm	62
in.	2.44	
LC	mm	244
in.	9.61	
LP	mm	= 270 + LC + X
in.	= 10.63 + LC + X	
M	mm	100
in.	3.94	
Ø	mm	M6 X 14
in.	M6 X 0.55	
Ø1	mm	10 ^{H7} X 2.1
in.	10 ^{H7} X 0.08	

Servo Motor Mounting

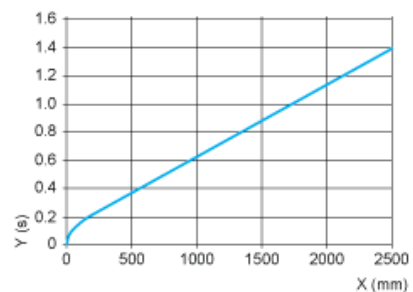
Standard servo motor mounting



Servo motor mounted on the left



Axis Positioning Time as a Function of the Stroke



X : Stroke
Y : Positioning time

Forces and Torques Exerted on the Lexium PAS E Portal Axis

