

Product data sheet

Characteristics

PAS44E0500

portal axis PAS E - profile size 110x110mm -
toothed belt - ball - stroke 500mm



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
Typical payload	110.23 lb(US) (50 kg)
Distance per revolution	10.39 in (264 mm)
Operating force	2600 N for Fx 6270 N for Fy 6270 N for Fz
Maximum speed	6.56 ft/s (2 m/s)
Maximum acceleration	49.21 ft/s ² (15 m/s ²)
Max. drive torque	35.40 lbf.in (4 N.m)
Max. torque	<44.25 Lbf.in (5 N.m) for Mx <97.36 Lbf.in (11 N.m) for My <150.46 lbf.in (17 N.m) for Mz
Stroke	19.69 in (500 mm)
Product weight	81.57 Lb(US) (37 kg) at 0 stroke with carriage and motor 9.26 Lb(US) (4.2 kg) of carriage 129.63 lb(US) (58.8 kg) total
Repeat accuracy	+/- 0.05 mm
Outer dimension	110 x 110 mm
Service life	30000 km
Associated module	PLE120 planetary gearbox 5:1 supplied) BMH1401P06A2A servo motor supplied) LXM32.D72N4 servo drive not supplied)

Ordering and shipping details

GTIN	03606485237602
Package weight(Lbs)	100.20 lb(US) (45.450 kg)

Packing Units

Package 1 Height	3.050 dm
Package 1 width	4.880 dm
Package 1 Length	13.020 dm

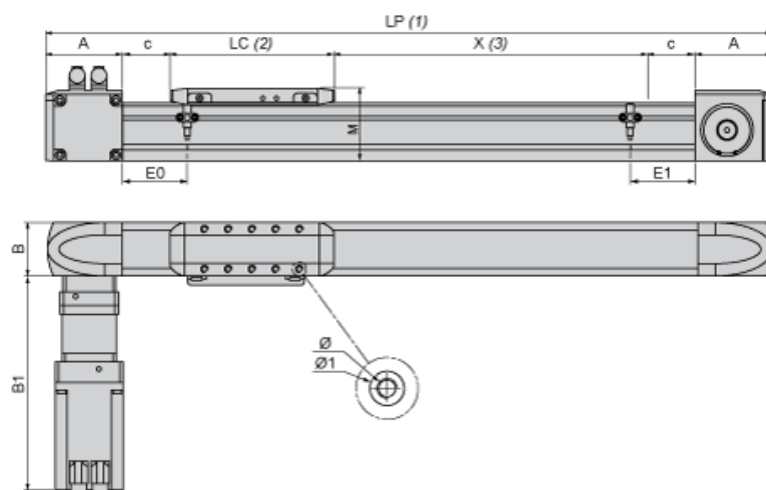
Offer Sustainability

California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds which is known to the State of California to cause Carcinogen & Reproductive harm. For more information go to www.p65warnings.ca.gov
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Contractual warranty

Warranty	18 months
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Size Characteristics

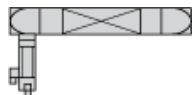


- (1) LP : total length of axis
(2) LC : length of carriage
(3) X : Stroke, refer to product characteristics.

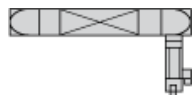
A	mm	146
in.	5.75	
B	mm	110
in.	4.33	
B1	mm	360
in.	14.17	
c	mm	40
in.	1.57	
E0	mm	110
in.	4.33	
E1	mm	110
in.	4.33	
LC	mm	310
in.	12.20	
LP	mm	= 372 + LC + X
in.	= 14.64 + LC + X	
M	mm	135
in.	5.31	
Ø	mm	M8 X 18
in.	M8 X 0.70	
Ø1	mm	12 ^{H7} X 2.1
in.	12 ^{H7} X 0.08	

Servo Motor Mounting

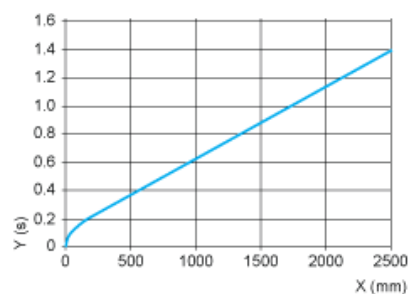
Standard servo motor mounting



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

