

Product datasheet

Specifications



portal axis PAS E - profile size
80x80mm - toothed belt - ball -
stroke 2500mm

PAS43E2500

⚠ Discontinued on: 3 Feb 2022

⚠ Discontinued

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
Type Of Guide	Ball

Complementary

Operating Position	Horizontal
Typical Payload	25 kg
Distance Per Revolution	205 mm
Operating Force	1100 N for Fx 4410 N for Fy 4410 N for Fz
Maximum Speed	2 m/s
Maximum Acceleration	15 m/s ²
Max. Drive Torque	4 N.m
Max. Torque	<5 N.m for Mx <11 N.m for My <17 N.m for Mz
Stroke	2500 mm
Product Weight	18 kg at 0 stroke with carriage and motor 2.1 kg of carriage 57.1 kg total
Repeat Accuracy	+/- 0.05 mm
Profile Dimension	80 x 80 mm
Service Life	30000 km
Associated Module	PLE80 planetary gearbox, reduction ratio: 5:1 (supplied) BMH1002P06A2A servo motor (supplied) LXM32.D18N4 servo drive (not supplied)

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Package 1 Height	26.5 cm
Package 1 Width	48.8 cm
Package 1 Length	313.4 cm
Package 1 Weight	57.118 kg

Contractual warranty

Warranty	18 months
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Sustainability





Green Premium™ label is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

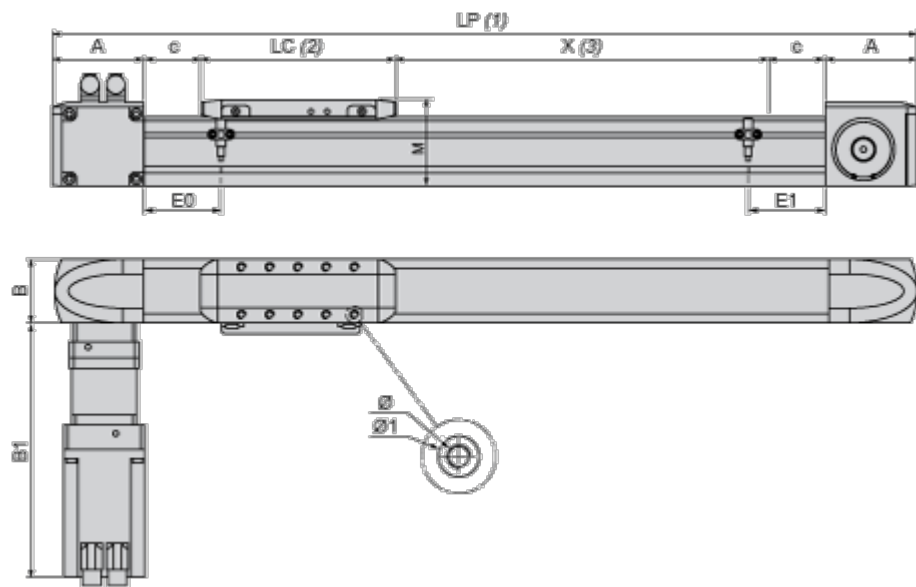
[Guide to assess a product’s sustainability >](#)

Well-being performance

 Reach Free Of Svhc	
 Mercury Free	
 Rohs Exemption Information	Yes
 Pvc Free	
Reach Regulation	REACH Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
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

Dimensions Drawings

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

Mounting and Clearance

Servo Motor Mounting

Standard servo motor mounting

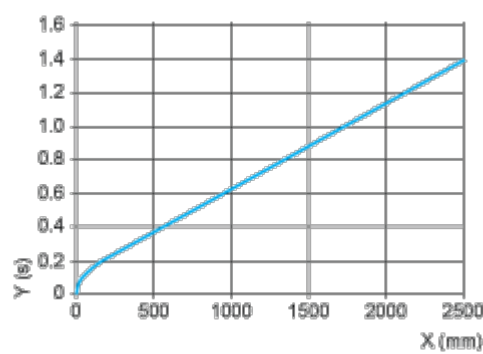


Servo motor mounted on the left



Performance Curves

Axis Positioning Time as a Function of the Stroke



X : Stroke

Y : Positioning time

Technical Description

Forces and Torques Exerted on the Lexium PAS E Portal Axis

