

# Product data sheet

Specifications



portal axis PAS E - profile size  
80x80mm - toothed belt - ball -  
stroke 500mm

PAS43E0500

⚠ Discontinued on: Sep 19, 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	55.12 lb(US) (25 kg)
Distance Per Revolution	8.07 in (205 mm)
Operating Force	1100 N for Fx 4410 N for Fy 4410 N for Fz
Maximum Speed	6.56 ft/s (2 m/s)
Maximum Acceleration	49.21 ft/s <sup>2</sup> (15 m/s <sup>2</sup> )
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	39.68 lb(US) (18 kg) at 0 stroke with carriage and motor 4.63 lb(US) (2.1 kg) of carriage 64.82 lb(US) (29.4 kg) total
Repeat Accuracy	+/- 0.05 mm
Profile Dimension	80 x 80 mm
Service Life	30000 km
Associated Module	PLE80 planetary gearbox 5:1 supplied) BMH1002P06A2A servo motor supplied) LXM32.D18N4 servo drive not supplied)

## Ordering and shipping details

Gtin	3606485237121
------	---------------

## Packing Units

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	10.43 in (26.5 cm)
Package 1 Width	19.21 in (48.8 cm)
Package 1 Length	44.65 in (113.4 cm)
Package 1 Weight	64.84 lb(US) (29.411 kg)

## Contractual warranty

Warranty	18 months
----------	-----------

## 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-CO<sub>2</sub> 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 >](#)

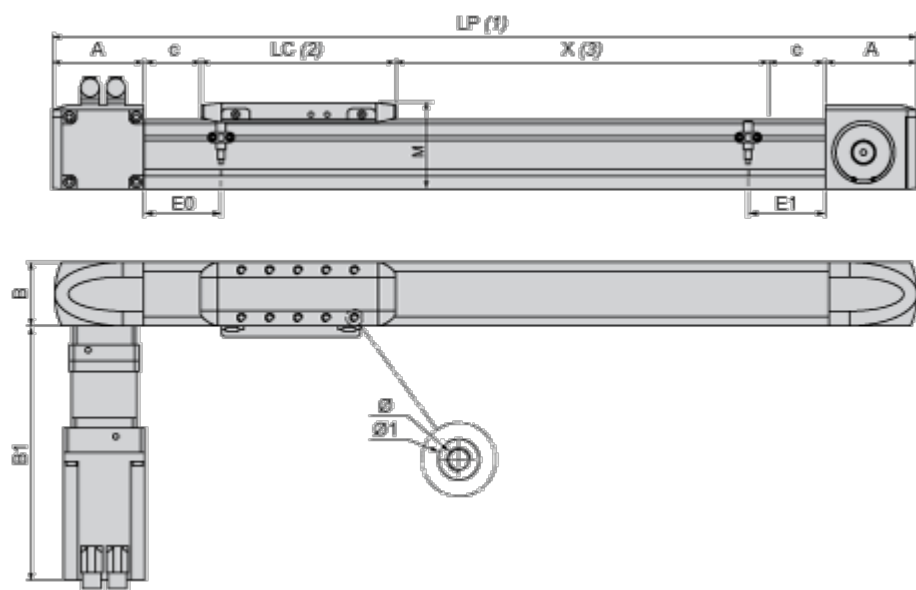
[Guide to assess a product's sustainability >](#)

## Well-being performance

	Reach Free Of Svhc	
	Mercury Free	
	Rohs Exemption Information	Yes
	Pvc Free	
Reach Regulation	<a href="#">REACH Declaration</a>	
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
China Rohs Regulation	<a href="#">China RoHS declaration</a>	
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.	
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 cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>	

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 <sup>H7</sup> X 2.1
	in.	10 <sup>H7</sup> 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

---

