

Product data sheet

Specifications



portal axis PAS E - profile size
80x80mm - toothed belt - ball -
stroke 1850mm

PAS43E1850

⚠ 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 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	72.83 in (1850 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 104.28 lb(US) (47.3 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	3606485237398
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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	97.80 in (248.4 cm)
Package 1 Weight	104.18 lb(US) (47.255 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 >](#)

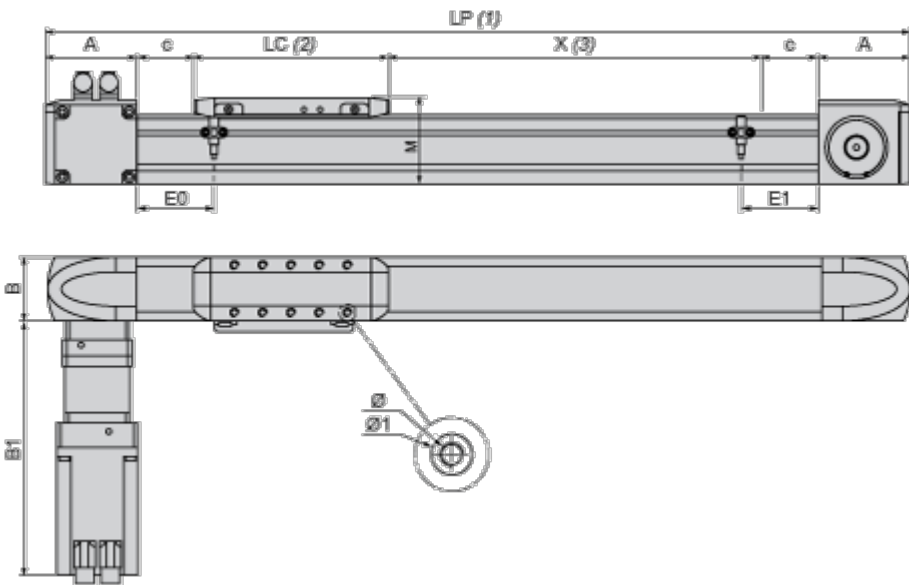
[Guide to assess a product's sustainability >](#)

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.	
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 www.P65Warnings.ca.gov	

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

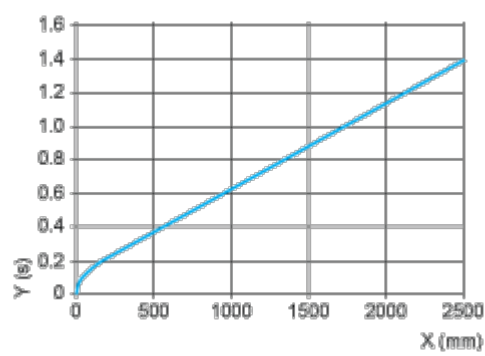


Servo motor mounted on the left



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

