

Product data sheet

Specifications



Portal axis, Lexium PAS, model range 4, profile size 80 x 80 mm, toothed belt, ball guide

PAS43BB

Main

Range Of Product	Lexium PAS
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
Function Available	Different type of guides Different types of sensors for the limit switch function Different carriage lengths adapted to the load Additional carriages option Increased corrosion resistance Anti-static toothed belt Protective cover strip for the axis inner parts Motor and gearbox mounting options
Operating Force	1100 N for Fx 4410 N for Fy 4410 N for Fz
Maximum Speed	16.40 ft/s (5 m/s)
Maximum Acceleration	164.04 ft/s² (50 m/s²)
Max. Drive Torque	318.63 lbf.in (36 N.m)
Max. Torque	<371.73 lbf.in (42 N.m) for Mx <1433.82 lbf.in (162 N.m) for My carriage type 1) <3354.43 lbf.in (379 N.m) for My carriage type 2) <6080.45 lbf.in (687 N.m) for My carriage type 4) <1433.82 lbf.in (162 N.m) for Mz carriage type 1) <3354.43 lbf.in (379 N.m) for Mz carriage type 2) <6080.45 lbf.in (687 N.m) for Mz carriage type 4)
Min. ... Max. Stroke	0.43...216.54 in (11...5500 mm)
Repeat Accuracy	+/- 0.05 mm
Profile Dimension	80 x 100 mm
Service Life	30000 km

Packing Units

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

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

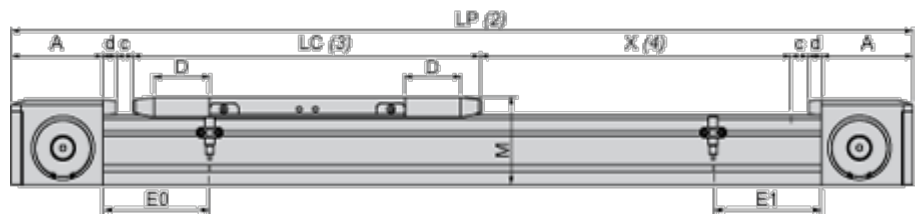
Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Contractual warranty

Warranty	18 months
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Dimensions Drawings

Size Characteristics



- (2) LP : total length of axis
- (3) LC : length of carriage
- (4) X : Stroke, depending on application

		Without protective metal strip	With protective metal strip
A	mm	110	110
	in.	4.33	4.33
c	mm	25	25
	in.	0.98	0.98
d	mm	–	15
	in.	–	0.59
D	mm	–	60
	in.	–	2.36
LP	mm	= 270 + LC + X	= 300 + LC + X
	in.	= 10.63 + LC + X	= 11.81 + LC + X
M	mm	100	100
	in.	3.94	3.94

Carriage type 1			
		Without protective metal strip	With protective metal strip
E0	mm	62	138
	in.	2.44	5.43
E1	mm	62	138
	in.	2.44	5.43
LC	mm	244	364

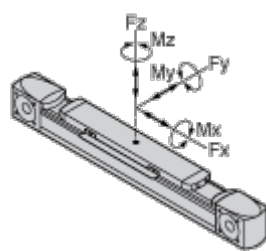
Carriage type 1			
		Without protective metal strip	With protective metal strip
	in.	9.61	14.33

Carriage type 2			
		Without protective metal strip	With protective metal strip
E0	mm	62	138
	in.	2.44	5.43
E1	mm	133	208
	in.	5.24	8.19
LC	mm	314	434
	in.	12.36	17.09

Carriage type 4			
		Without protective metal strip	With protective metal strip
E0	mm	62	138
	in.	2.44	5.43
E1	mm	273	348
	in.	10.75	13.70
LC	mm	454	574
	in.	17.87	22.60

Technical Description

Forces and Torques Exerted on the Lexium PAS B Portal Axis



Types of Interface for the Drive Element

Drive Element Fixed on Right-Hand Side



Drive Element Fixed on Left-Hand Side

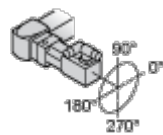


Without Connection / Without Adaptor Plate

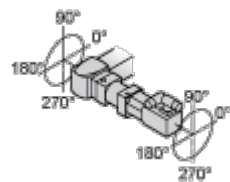


Possible Motor Drive Configurations and Orientations

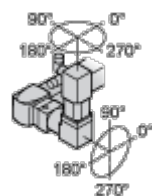
Motor Only Without Gearbox



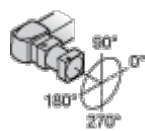
Motor With Planetary Gearbox



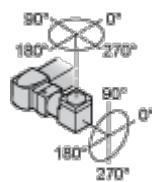
Motor With Angular Planetary Gearbox



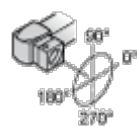
Planetary Gearbox Only



Angular Planetary Gearbox Only



Without Motor, Without Gearbox, With Adaptor Plate for the Drive Element



Without Motor, Without Gearbox

