

Product data sheet

Specifications



Portal axis, Lexium PAS, model range 4, profile size 60 x 60 mm ball screw, lead 16 mm per revolution, ball guide

PAS42SBF

Main

Range Of Product	Lexium PAS
Product Or Component Type	Portal axis
Product Specific Application	For 1 direction
Load Position	On carriage
Drive Type	Ball screw
Type Of Guide	Ball

Complementary

Operating Position	Horizontal
Function Available	Ballscrew support for longer strokes and higher speeds Different types of sensors for the limit switch function Different carriage lengths adapted to the load Additional carriages option Protective cover strip for the axis inner parts Motor and gearbox mounting options
Distance Per Revolution	0.63 in (16 mm)
Diameter	For ball screw 0.63 in (16 mm)
Axial Backlash	0.00 in (0.04 mm) for ball screw
Operating Force	1540 N for Fx 4050 N for Fy 4050 N for Fz
Maximum Speed	2.62 ft/s (0.8 m/s)
Maximum Acceleration	21.00 ft/s² (6.4 m/s²)
Max. Drive Torque	43.37 lbf.in (4.9 N.m)
Max. Torque	<238.97 lbf.in (27 N.m) for Mx <2690.62 lbf.in (304 N.m) for My carriage type 1) <5912.29 lbf.in (668 N.m) for My carriage type 4) <2690.62 lbf.in (304 N.m) for Mz carriage type 1) <5912.29 lbf.in (668 N.m) for Mz carriage type 4)
Min. ... Max. Stroke	0.35...59.06 in (9...1500 mm)
Repeat Accuracy	+/- 0.02 mm
Profile Dimension	60 x 75 mm
Service Life	10000 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.

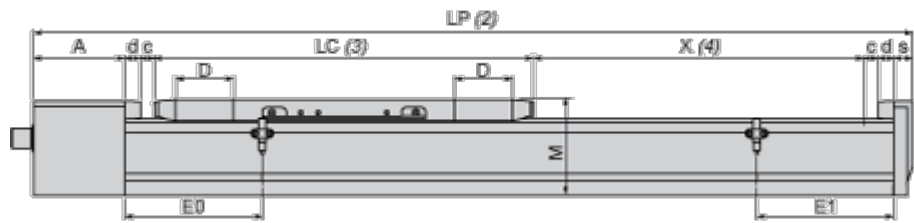
Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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	85	85
	in.	3.35	3.35
c	mm	10	10
	in.	0.39	0.39
d	mm	11.5	11.5
	in.	0.45	0.45
D	mm	–	48.5
	in.	–	1.91
LP	mm	= 143 + LC + X	= 143 + LC + X
	in.	= 5.63 + LC + X	= 5.63 + LC + X
M	mm	75	75
	in.	2.95	2.95
s	mm	15	15
	in.	0.59	0.59

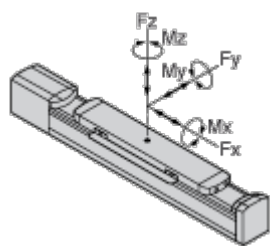
Carriage type 1			
		Without protective metal strip	With protective metal strip
E0	mm	50	98
	in.	1.97	3.86
E1	mm	50	98

Carriage type 1			
		Without protective metal strip	With protective metal strip
	in.	1.97	3.86
LC	mm	226	323
	in.	8.90	12.72

Carriage type 4			
		Without protective metal strip	With protective metal strip
E0	mm	50	98
	in.	1.97	3.86
E1	mm	230	278
	in.	9.05	10.94
LC	mm	406	503
	in.	15.98	19.80

Technical Description

Forces and Torques Exerted on the Lexium PAS S Portal Axis



Types of Interface for the Drive Element

With Motor or Adaptor Plate

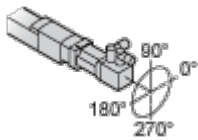


With Shaft

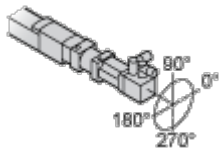


Possible Motor Drive Configurations and Orientations

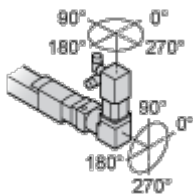
Motor Only Without Gearbox



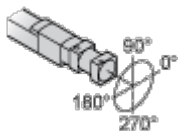
Motor With Planetary Gearbox



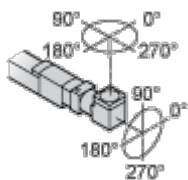
Motor With Angular Planetary Gearbox



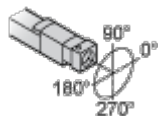
Planetary Gearbox Only



Angular Planetary Gearbox Only



Without Motor / Without Gearbox / With Adaptor Plate for the Drive



Without Motor / Without Gearbox

