



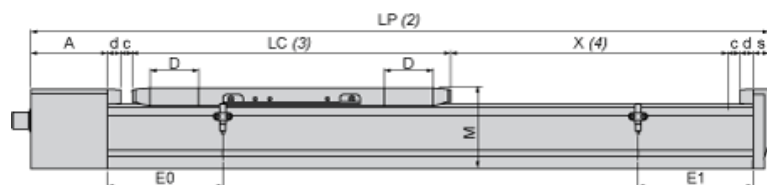
Main

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
Guide type	Ball

Complementary

Operating position	Horizontal
Function available	Different types of sensors for the limit switch function Different types of carriage adapted to the load 1 to 3 carriages Protective metal strip Different types of motor mounting
Permanent permissible load	25 kg
Distance per revolution	5 mm
Diameter	16 mm for ball screw
Axial backlash	0.04 mm for ball screw
Operating force	<= 4050 N for Z axis <= 4050 N for Y axis <= 2980 N for X axis
Maximum actuation speed	0.25 m/s
Maximum acceleration	2 m/s ²
Torque value	<= 668 N.m for Z axis (carriage type 4) <= 304 N.m for Z axis (carriage type 1) <= 668 N.m for Y axis (carriage type 4) <= 304 N.m for Y axis (carriage type 1) <= 27 N.m for X axis <= 3.2 N.m driving torque
Operating travel	9...1500 mm
Repeat accuracy	+/- 0.02 mm
Outer dimension	60 x 60 mm
Mechanical service life	10000 km

Size Characteristics



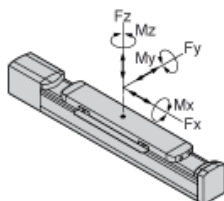
- (2) LP : total length of axis
(3) LC : length of carriage
(4) X : Stroke, depending on application

		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
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	

Forces and Torques Exerted on the Lexium PAS S Portal Axis



Types of Interface for the Drive Element

With Motor or Adaptor Plate

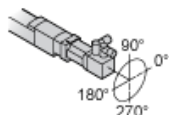


With Shaft

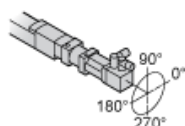


Possible Motor Drive Configurations and Orientations

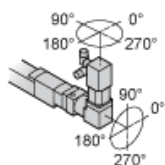
Motor Only Without Gearbox



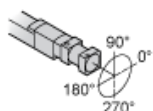
Motor With Planetary Gearbox



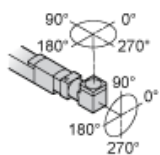
Motor With Angular Planetary Gearbox



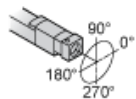
Planetary Gearbox Only



Angular Planetary Gearbox Only



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



Without Motor / Without Gearbox

