



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

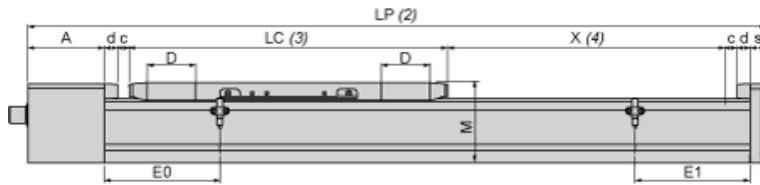
Complementary

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 Different types of motor mounting
Distance per revolution	0.98 in (25 mm)
Diameter	0.98 in (25 mm) for ball screw
Axial backlash	0 in (0.04 mm) for ball screw
Operating force	≤ 9040 N for F_y ≤ 9040 N for F_z ≤ 3000 N for F_x
Maximum speed	4.1 ft/s (1.25 m/s)
Maximum acceleration	32.81 ft/s ² (10 m/s ²)
Max. drive torque	≤ 14.3 N.m
Max. torque	≤ 98 N.m for M_x ≤ 935 N.m for M_y (carriage type 1) ≤ 935 N.m for M_z (carriage type 1) ≤ 2155 N.m for M_z (carriage type 4)
Min. ... Max. stroke	0.51...118.11 in (13...3000 mm)
Repeat accuracy	+/- 0.02 mm
Outer dimension	110 x 110 mm
Service life	10000 km

Contractual warranty

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

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	20	20
	in.	0.79	0.79
d	mm	20	20
	in.	0.79	0.79
D	mm	–	80
	in.	–	3.15
LP	mm	= 215 + LC + X	= 215 + LC + X
	in.	= 8.46 + LC + X	= 8.46 + LC + X
M	mm	135	135
	in.	5.31	5.31
s	mm	25	25
	in.	0.98	0.98

Carriage type 1

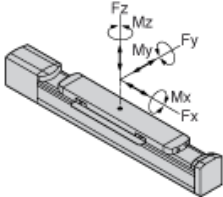
		Without protective metal strip	With protective metal strip
E0	mm	120	200
	in.	4.72	7.87
E1	mm	120	200
	in.	4.72	7.87
LC	mm	330	490
	in.	12.99	19.29

Carriage type 4

		Without protective metal strip	With protective metal strip
E0	mm	120	200
	in.	4.72	7.87
E1	mm	390	470
	in.	15.35	18.50

Carriage type 4			
		Without protective metal strip	With protective metal strip
LC	mm	600	760
	in.	23.62	29.92

Forces and Torques Exerted on the Lexium PAS S Portal Axis



Types of Interface for the Drive Element

With Motor or Adaptor Plate

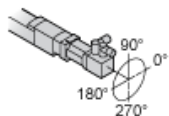


With Shaft

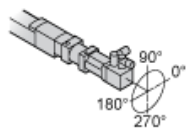


Possible Motor Drive Configurations and Orientations

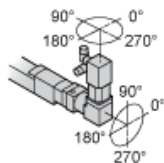
Motor Only Without Gearbox



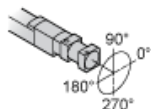
Motor With Planetary Gearbox



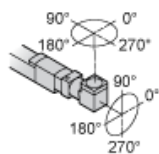
Motor With Angular Planetary Gearbox



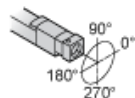
Planetary Gearbox Only



Angular Planetary Gearbox Only



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



Without Motor / Without Gearbox

