

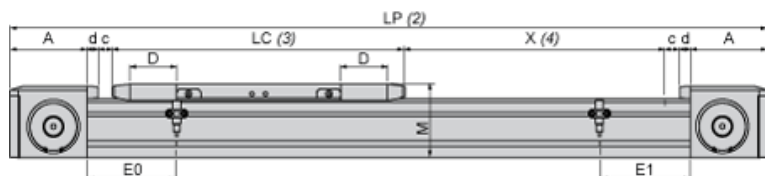
Main

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
Guide type	Roller

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 Anti-corrosion version proof enhance Anti-static belt Protective metal strip Different types of motor mounting
Permanent permissible load	12 kg
Operating force	≤ 800 N for X axis ≤ 430 N for Z axis ≤ 660 N for Y axis
Maximum actuation speed	8 m/s
Maximum acceleration	20 m/s ²
Torque value	≤ 87 N.m for Z axis (carriage type 4) ≤ 48 N.m for Z axis (carriage type 2) ≤ 28 N.m for Z axis (carriage type 1) ≤ 56 N.m for Y axis (carriage type 4) ≤ 31 N.m for Y axis (carriage type 2) ≤ 18 N.m for Y axis (carriage type 1) ≤ 9 N.m for X axis ≤ 20 N.m driving torque
Operating travel	130...5500 mm
Repeat accuracy	+/- 0.05 mm
Outer dimension	60 x 60 mm
Mechanical service life	30000 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	80	80
in.	3.15	3.15	
c	mm	15	15
in.	0.59	0.59	
d	mm	–	11.5
in.	–	0.45	
D	mm	–	48.5
in.	–	1.91	
LP	mm	$= 190 + LC + X$	$= 213 + LC + X$
in.	$= 7.48 + LC + X$	$= 8.38 + LC + X$	
M	mm	75	75
in.	2.95	2.95	

Carriage type 1

		Without protective metal strip	With protective metal strip
E0	mm	33	93
in.	1.30	3.66	
E1	mm	33	93
in.	1.30	3.66	
LC	mm	206	303
in.	8.11	11.93	

Carriage type 2

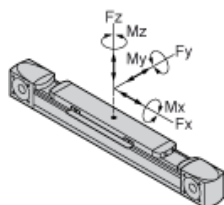
		Without protective metal strip	With protective metal strip
E0	mm	33	93
in.	1.30	3.66	
E1	mm	93	153
in.	3.66	6.02	
LC	mm	266	363
in.	10.47	14.29	

Carriage type 4

		Without protective metal strip	With protective metal strip
E0	mm	33	93

Carriage type 4			
		Without protective metal strip	With protective metal strip
in.	1.30	3.66	
E1	mm	213	273
in.	8.38	10.75	
LC	mm	386	483
in.	15.20	19.01	

Forces and Torques Exerted on the Lexium PAS B Portal Axis

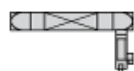


Types of Interface for the Drive Element

Drive Element Fixed on Right-Hand Side



Drive Element Fixed on Left-Hand Side

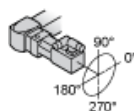


Without Connection / Without Adaptor Plate

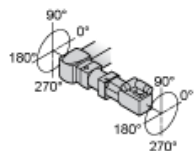


Possible Motor Drive Configurations and Orientations

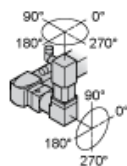
Motor Only Without Gearbox



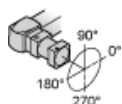
Motor With Planetary Gearbox



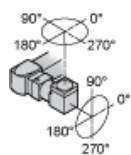
Motor With Angular Planetary Gearbox



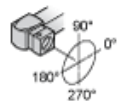
Planetary Gearbox Only



Angular Planetary Gearbox Only



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



Without Motor, Without Gearbox

