Product data sheet

Specifications



Cantilever axis, Lexium CAS, model range 4, profile size 110 x 110 mm, toothed belt, ball guide

CAS44BB

Main

Range of product	Lexium CAS
Product or component type	Cantilever axis
Product specific application	For 1 direction
Load position	On the side of the profile or on the 2 end plates
Drive type	Toothed belt
Type of guide	Ball

Complementary

Operating position	Vertical
Function available	Different types of sensors for the limit switch function Increased corrosion resistance Anti-static toothed belt Protective cover strip for the axis inner parts Motor and gearbox mounting options
Operating force	2150 N for Fx 7890 N for Fy 7890 N for Fz
Maximum speed	9.84 ft/s (3 m/s)
Acceleration	164.04 ft/s² (50 m/s²)
Max. drive torque	796.57 lbf.in (90 N.m)
Max. torque	<752.31 lbf.in (85 N.m) for Mx <9036.60 lbf.in (1021 N.m) for My <9036.60 lbf.in (1021 N.m) for Mz
Min. … Max. stroke	0.51…70.87 in (13…1800 mm)
Repeat accuracy	+/- 0.05 mm
Profile dimension	146 x 135 mm
Service life	15000 km

Contractual warranty

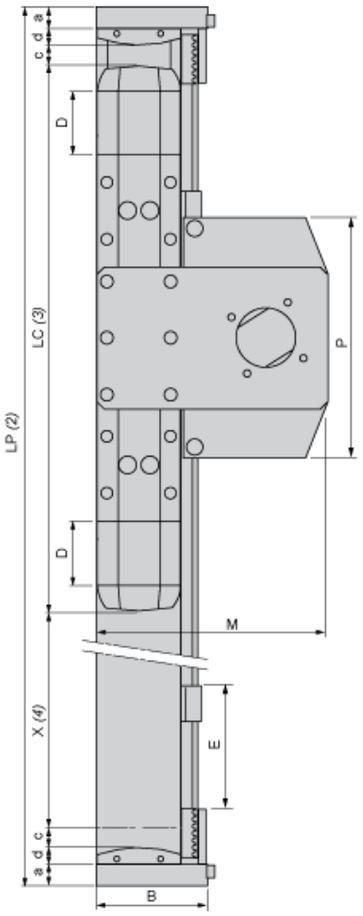
Warranty	18 months

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

Product data sheet CAS44BB

Dimensions Drawings

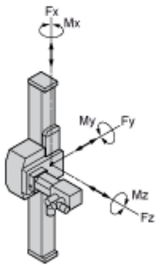
Size Characteristics



(2) LP: total length of axis
(3) LC: length of drive element
(4) X: stroke, depending on application

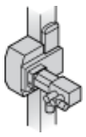
		Without protective metal strip	With protective metal strip
a	mm	25	25
	in.	0.98	0.98
B	mm	139	139
	in.	5.47	5.47
c	mm	30	30
	in.	1.18	1.18
d	mm	–	20
	in.	–	0.79
D	mm	–	80
	in.	–	3.15
E	mm	142	232
	in.	5.59	9.13
LC	mm	490	650
	in.	19.29	25.59
LP	mm	= 600 + X	= 800 + X
	in.	= 23.62 + X	= 31.50 + X
M	mm	250	250
	in.	9.84	9.84
P	mm	300	300
	in.	11.81	11.81

Forces and Torques Exerted on the Lexium CAS 4 Cantilever Axis

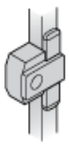


Types of Interface for the Drive Element

Drive Element Fixed on Right-Hand Side

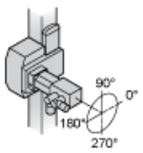


Axis with no Drive

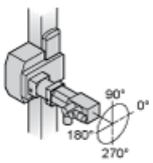


Possible Motor Drive Configurations and Orientations

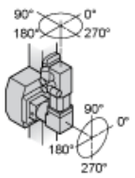
Motor only without Gearbox



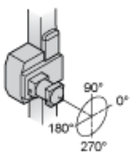
Motor with Planetary Gearbox



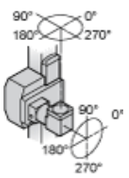
Motor with Angular Planetary Gearbox



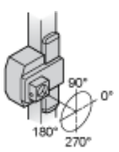
Planetary Gearbox Only



Angular Planetary Gearbox Only



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



Without Motor / Without Gearbox

