

Product data sheet

Specifications



Portal axis, Lexium PAS, model range 4, profile size 110 x 110 mm, ball screw, lead 5 mm per revolution, ball guide

PAS44SBB

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 | 0.20 in (5 mm) |
| Diameter | For ball screw 0.98 in (25 mm) |
| Axial Backlash | 0.00 in (0.04 mm) for ball screw |
| Operating Force | 3700 N for Fx 9040 N for Fy 9040 N for Fz |
| Maximum Speed | 0.82 ft/s (0.25 m/s) |
| Maximum Acceleration | 6.56 ft/s² (2 m/s²) |
| Max. Drive Torque | 38.06 lbf.in (4.3 N.m) |
| Max. Torque | <867.37 lbf.in (98 N.m) for Mx <8275.43 lbf.in (935 N.m) for My carriage type 1) <19073.33 lbf.in (2155 N.m) for My carriage type 4) <8275.43 lbf.in (935 N.m) for Mz carriage type 1) <19073.33 lbf.in (2155 N.m) for Mz carriage type 4) |
| Min. ... Max. Stroke | 0.51...118.11 in (13...3000 mm) |
| Repeat Accuracy | +/- 0.02 mm |
| Profile Dimension | 110 x 135 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.

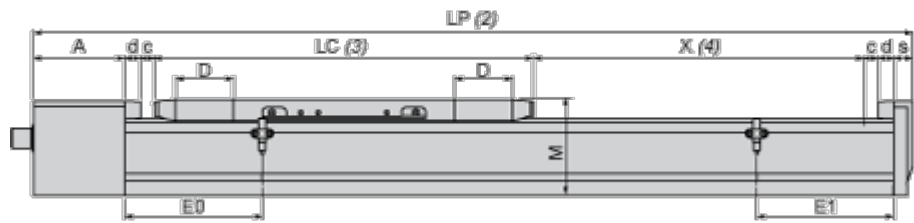
Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Contractual warranty

| | |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

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 | 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 |

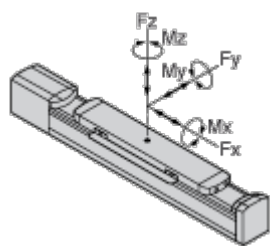
| Carriage type 1 | | | |
|-----------------|-----|--------------------------------|-----------------------------|
| | | Without protective metal strip | With protective metal strip |
| E0 | mm | 120 | 200 |
| | in. | 4.72 | 7.87 |
| E1 | mm | 120 | 200 |

| Carriage type 1 | | | |
|-----------------|-----|--------------------------------|-----------------------------|
| | | Without protective metal strip | With protective metal strip |
| | 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 |
| LC | mm | 600 | 760 |
| | in. | 23.62 | 29.92 |

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

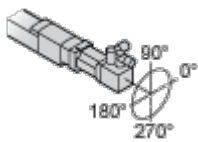


With Shaft

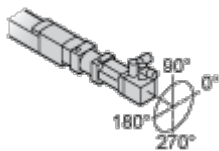


Possible Motor Drive Configurations and Orientations

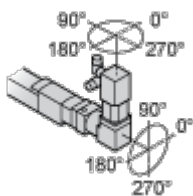
Motor Only Without Gearbox



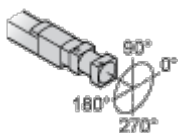
Motor With Planetary Gearbox



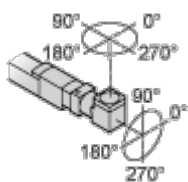
Motor With Angular Planetary Gearbox



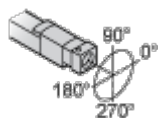
Planetary Gearbox Only



Angular Planetary Gearbox Only



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



Without Motor / Without Gearbox

