

Product data sheet

Specifications



portal axis PAS E - profile size
110x110mm - toothed belt - ball -
stroke 550mm

PAS44E0550

⚠ Discontinued on: Sep 19, 2022

⚠ Discontinued

Main

| | |
|------------------------------|-----------------|
| Range Of Product | Lexium PAS E |
| Product Or Component Type | Portal axis |
| Product Specific Application | For 1 direction |
| Load Position | On carriage |
| Drive Type | Toothed belt |
| Type Of Guide | Ball |

Complementary

| | |
|-------------------------|---|
| Operating Position | Horizontal |
| Typical Payload | 110.23 lb(US) (50 kg) |
| Distance Per Revolution | 10.39 in (264 mm) |
| Operating Force | 2600 N for Fx 6270 N for Fy 6270 N for Fz |
| Maximum Speed | 6.56 ft/s (2 m/s) |
| Maximum Acceleration | 49.21 ft/s ² (15 m/s ²) |
| Max. Drive Torque | 35.40 lbf.in (4 N.m) |
| Max. Torque | <44.25 lbf.in (5 N.m) for Mx <97.36 lbf.in (11 N.m) for My <150.46 lbf.in (17 N.m) for Mz |
| Stroke | 21.65 in (550 mm) |
| Product Weight | 81.57 lb(US) (37 kg) at 0 stroke with carriage and motor 9.26 lb(US) (4.2 kg) of carriage 132.28 lb(US) (60 kg) total |
| Repeat Accuracy | +/- 0.05 mm |
| Profile Dimension | 110 x 110 mm |
| Service Life | 30000 km |
| Associated Module | PLE120 planetary gearbox 5:1 supplied) BMH1401P06A2A servo motor supplied) LXM32.D72N4 servo drive not supplied) |

Ordering and shipping details

| | |
|------|---------------|
| Gtin | 3606485237619 |
|------|---------------|

Packing Units

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

| | |
|------------------------------|---------------------------|
| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 12.01 in (30.5 cm) |
| Package 1 Width | 19.21 in (48.8 cm) |
| Package 1 Length | 53.23 in (135.2 cm) |
| Package 1 Weight | 132.28 lb(US) (59.999 kg) |

Contractual warranty

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

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

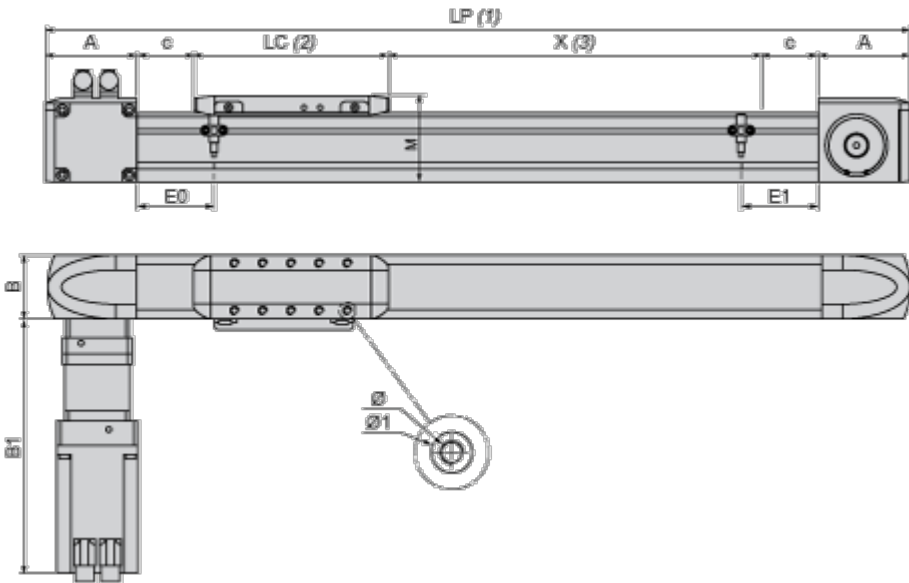
[Guide to assess a product's sustainability >](#)

Well-being performance

| | | |
|---------------------------|---|-----|
| ✓ | Reach Free Of Svhc | |
| ✓ | Mercury Free | |
| ✓ | Rohs Exemption Information | Yes |
| ✓ | Pvc Free | |
| | | |
| Reach Regulation | REACH Declaration | |
| Eu Rohs Directive | Pro-active compliance (Product out of EU RoHS legal scope) | |
| China Rohs Regulation | China RoHS declaration | |
| Weee | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. | |
| California Proposition 65 | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov | |

Dimensions Drawings

Size Characteristics



- (1) LP : total length of axis
- (2) LC : length of carriage
- (3) X : Stroke, refer to product characteristics.

| | | |
|----|-----|-------|
| A | mm | 146 |
| | in. | 5.75 |
| B | mm | 110 |
| | in. | 4.33 |
| B1 | mm | 360 |
| | in. | 14.17 |
| c | mm | 40 |
| | in. | 1.57 |
| E0 | mm | 110 |
| | in. | 4.33 |
| E1 | mm | 110 |
| | in. | 4.33 |
| LC | mm | 310 |
| | in. | 12.20 |

| | | |
|----|-----|-------------------------|
| LP | mm | = 372 + LC + X |
| | in. | = 14.64 + LC + X |
| M | mm | 135 |
| | in. | 5.31 |
| Ø | mm | M8 X 18 |
| | in. | M8 X 0.70 |
| Ø1 | mm | 12 ^{H7} X 2.1 |
| | in. | 12 ^{H7} X 0.08 |

Mounting and Clearance

Servo Motor Mounting

Standard servo motor mounting



Servo motor mounted on the left



Performance Curves

Axis Positioning Time as a Function of the Stroke



X : Stroke

Y : Positioning time

Technical Description

Forces and Torques Exerted on the Lexium PAS E Portal Axis

