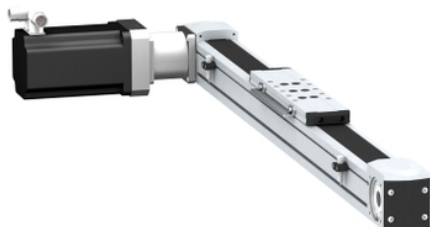


# Product data sheet

## Characteristics

# PAS44E2500

portal axis PAS E - profile size 110x110mm -  
toothed belt - ball - stroke 2500mm



## 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    |
| Guide type                   | 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<br>6270 N for Fy<br>6270 N for Fz                                                                                |
| Maximum speed           | 6.56 ft/s (2 m/s)                                                                                                              |
| Maximum acceleration    | 49.21 ft/s <sup>2</sup> (15 m/s <sup>2</sup> )                                                                                 |
| Max. drive torque       | 35.40 lbf.in (4 N.m)                                                                                                           |
| Max. torque             | <44.25 Lbf.in (5 N.m) for Mx<br><97.36 Lbf.in (11 N.m) for My<br><150.46 lbf.in (17 N.m) for Mz                                |
| Stroke                  | 98.43 in (2500 mm)                                                                                                             |
| Product weight          | 81.57 Lb(US) (37 kg) at 0 stroke with carriage and motor<br>9.26 Lb(US) (4.2 kg) of carriage<br>243.61 lb(US) (110.5 kg) total |
| Repeat accuracy         | +/- 0.05 mm                                                                                                                    |
| Outer dimension         | 110 x 110 mm                                                                                                                   |
| Service life            | 30000 km                                                                                                                       |
| Associated module       | PLE120 planetary gearbox 5:1 supplied)<br>BMH1401P06A2A servo motor supplied)<br>LXM32.D72N4 servo drive not supplied)         |

## Ordering and shipping details

|                     |                           |
|---------------------|---------------------------|
| GTIN                | 03606485238005            |
| Package weight(Lbs) | 174.72 lb(US) (79.250 kg) |

## Packing Units

|                  |           |
|------------------|-----------|
| Package 1 Height | 3.050 dm  |
| Package 1 width  | 4.880 dm  |
| Package 1 Length | 33.020 dm |

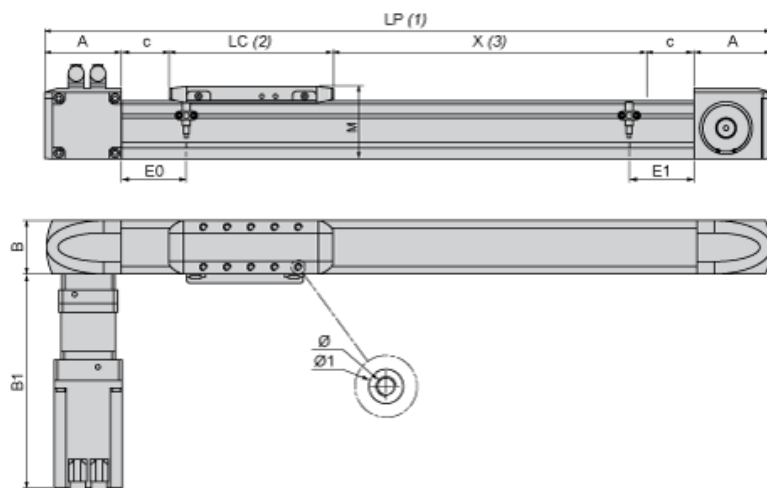
## Offer Sustainability

|                            |                                                                                                                                                                                                                                                                       |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 Carcinogen & Reproductive harm. For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a> |
| REACH free of SVHC         | Yes                                                                                                                                                                                                                                                                   |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>                                                                                                                                                                        |
| Mercury free               | Yes                                                                                                                                                                                                                                                                   |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                                                                                                                                                                   |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>                                                                                                                                                                                                                                |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.                                                                                                                                          |

## Contractual warranty

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

## Size Characteristics



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

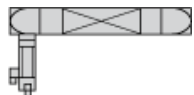
|     |                         |                        |
|-----|-------------------------|------------------------|
| A   | mm                      | 146                    |
| in. | 5.75                    |                        |
| B   | mm                      | 110                    |
| in. | 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 <sup>H7</sup> X 2.1 |
| in. | 12 <sup>H7</sup> X 0.08 |                        |

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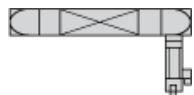
## Servo Motor Mounting

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Standard servo motor mounting



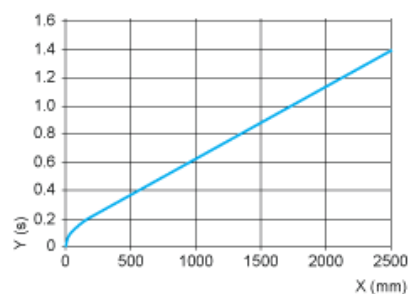
Servo motor mounted on the left



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Axis Positioning Time as a Function of the Stroke

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X : Stroke

Y : Positioning time

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Forces and Torques Exerted on the Lexium PAS E Portal Axis

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