

螺桿軸 ELGT-BS-120-500-10P

料號: 8124455

FESTO



技術參數

| 特性 | 值 |
|--|--|
| 工作行程 | 500 mm |
| 尺寸 | 120 |
| 備用行程 | 0 mm |
| 反向空隙 | $\leq 0.15 \mu\text{m}$ |
| 螺桿直徑 | 16 mm |
| 螺桿螺距 | 10 mm/U |
| 裝配位置 | 任何 |
| 導向 | 迴圈滾珠軸承導向 |
| 設計結構 | 機電式直線軸 具迴圈滾珠軸承螺桿 |
| 馬達類型 | 步進馬達 伺服馬達 |
| 螺桿類型 | 滾珠螺紋螺桿 |
| 多樣型 | Recommended for production facilities for the manufacture of lithium-ion batteries |
| 最大加速度 | 15 m/s ² |
| 最高速度 | 3,000 1/min 0.5 m/s |
| 重複精度 | $\pm 0.02 \text{ mm}$ |
| 循環功率 | 100 % |
| PWIS conformity | VDMA24364 zone III |
| RSBP classification to CD-0033 | F1a |
| 無塵室等級 | ISO class 8 |
| 防護等級 | IP20 |
| 環境溫度 | 0 ... 50 °C |
| 固定的輸送力 | 1,265 N |
| 轉動面積矩 2nd 度ly | 966E+03 mm ⁴ |
| 轉動面積矩 2nd 度lz | 6,011E+03 mm ⁴ |
| No-load torque at maximum travel speed | 0.3 Nm |
| No-load torque at minimum travel speed | 0.08 Nm |
| 最大輸出力Fy | 6,800 N |
| 最大輸出力Fz | 8,090 N |
| Fy with theoretical service life of 100 km (from a guide perspective only) | 25,051 N |
| Fz with theoretical service life of 100 km (from a guide perspective only) | 29,804 N |
| 最大扭矩Mx | 300 Nm |
| 最大扭矩My | 310 Nm |
| 最大扭矩Mz | 310 Nm |
| Mx with theoretical service life of 100 km (from a guide perspective only) | 1,105 Nm |
| My with theoretical service life of 100 km (from a guide perspective only) | 1,142 Nm |
| Mz with theoretical service life of 100 km (from a guide perspective only) | 1,142 Nm |
| 驅動軸的最大徑向力 | 290 N |

| 特性 | 值 |
|--|---------------------------------------|
| 最大進給力 Fx | 1,265 N |
| 質量慣性扭矩 | 506E+03 mm ⁴ |
| 每公尺行程的質量慣性力矩 JH | 0.3453 kgcm ² |
| 每kg工作負荷的質量慣性力矩 JL | 0.0253 kgcm ² |
| 質量慣性力矩, JO | 0.1306 kgcm ² |
| 恆定進給 | 10 mm/U |
| 運動質量 | 2,019 g |
| 產品重量 | 11,451 g |
| 0 mm行程時的基本重量 | 5,259 g |
| 每 10 mm 行程所增加的重量 | 124 g |
| Dynamic deflection (load moved) | 0.05% of the axis length, max. 0.5 mm |
| Static deflection (load at standstill) | 0.1% of the axis length |
| Interface code, actuator | T46 |
| Material of end caps | Die-cast aluminium, painted |
| Material of profile | Anodised wrought aluminium alloy |
| 材料備註 | 符合 RoHS |
| Material drive cover | Die-cast aluminium, painted |
| Material guide slide | 鋼 |
| Material guide rail | 鋼 |
| Material slide | Anodised wrought aluminium alloy |
| Material spindle nut | 鋼 |
| Material spindle | 鋼 |