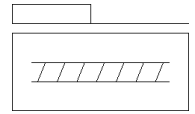


# 螺桿軸

## ELGT-BS-90-500-20P

料號: 8124427

FESTO



### 技術參數

| 特性   | 值  |
|--|--|
| 工作行程   | 500 mm   |
| 尺寸   | 90   |
| 備用行程   | 0 mm   |
| 反向空隙   | $\leq 0.15 \mu\text{m}$  |
| 螺桿直徑   | 15 mm  |
| 螺桿螺距   | 20 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<br>具迴圈滾珠軸承螺桿  |
| 馬達類型   | 步進馬達<br>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 <sup>2</sup>  |
| 最高速度   | 3,000 1/min<br>1 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 6  |
| 防護等級   | IP20   |
| 環境溫度   | 0 ... 50 °C  |
| 固定的輸送力   | 810 N  |
| 轉動面積矩 2nd 度ly  | 631E+03 mm <sup>4</sup>  |
| 轉動面積矩 2nd 度lz  | 1,948E+03 mm <sup>4</sup>  |
| No-load torque at maximum travel speed                                     | 0.2 Nm   |
| No-load torque at minimum travel speed                                     | 0.04 Nm  |
| 最大輸出力Fy  | 4,710 N  |
| 最大輸出力Fz  | 5,600 N  |
| Fy with theoretical service life of 100 km (from a guide perspective only) | 17,352 N   |
| Fz with theoretical service life of 100 km (from a guide perspective only) | 20,631 N   |
| 最大扭矩Mx   | 65 Nm  |
| 最大扭矩My   | 51 Nm  |
| 最大扭矩Mz   | 51 Nm  |
| Mx with theoretical service life of 100 km (from a guide perspective only) | 239 Nm   |
| My with theoretical service life of 100 km (from a guide perspective only) | 188 Nm   |
| Mz with theoretical service life of 100 km (from a guide perspective only) | 188 Nm   |
| 驅動軸的最大徑向力  | 290 N  |

| 特性                                     | 值                                     |
|--|---------------------------------------|
| 最大進給力 Fx                               | 810 N                                 |
| 質量慣性扭矩                                 | 151E+03 mm <sup>4</sup>               |
| 每公尺行程的質量慣性力矩 JH                        | 0.2522 kgcm <sup>2</sup>              |
| 每kg工作負荷的質量慣性力矩 JL                      | 0.1013 kgcm <sup>2</sup>              |
| 質量慣性力矩, JO                             | 0.2291 kgcm <sup>2</sup>              |
| 恆定進給                                   | 20 mm/U                               |
| 運動質量                                   | 1,645 g                               |
| 產品重量                                   | 9,469 g                               |
| 0 mm行程時的基本重量                           | 4,353 g                               |
| 每 10 mm 行程所增加的重量                       | 104 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                                     |