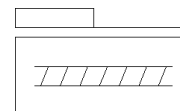
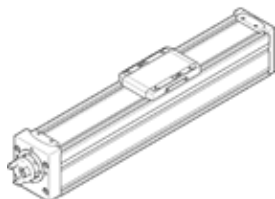


# spindle axis ELGC-BS-KF-80-400-16P

Part number: 8061501

☆ Core product range

FESTO



## Data sheet

| Feature  | Value  |
|--|--|
| Working stroke   | 400 mm   |
| Size   | 80   |
| Stroke reserve   | 0 mm   |
| Spindle diameter   | 16 mm  |
| Spindle pitch  | 16 mm/U  |
| Assembly position  | Any  |
| Guide  | Recirculating ball bearing guide   |
| Design structure   | Electromechanical linear axis<br>with recirculating ball bearing spindle |
| Motor type   | Stepper motor<br>Servomotor  |
| Spindle type   | Ball screw   |
| Max. acceleration  | 15 m/s <sup>2</sup>  |
| Max. speed   | 3,750 1/min<br>1 m/s   |
| Repetition accuracy  | ±0,01 mm   |
| Protection class   | IP40   |
| Ambient temperature  | 0 ... 50 °C  |
| Area moment of inertia 2nd degree Iy                                       | 1,370E+03 mm <sup>4</sup>  |
| Area moment of inertia 2nd degree Iz                                       | 1,660E+03 mm <sup>4</sup>  |
| No-load torque at maximum travel speed                                     | 0.396 Nm   |
| No-load torque at minimum travel speed                                     | 0.095 Nm   |
| Max. force Fy  | 900 N  |
| Max. force Fz  | 2,700 N  |
| Fy with theoretical service life of 100 km (from a guide perspective only) | 3,312 N  |
| Fz with theoretical service life of 100 km (from a guide perspective only) | 9,936 N  |
| Max. torque Mx   | 59.8 Nm  |
| Max. torque My   | 56.2 Nm  |
| Max. torque Mz   | 56.2 Nm  |
| Mx with theoretical service life of 100 km (from a guide perspective only) | 220 Nm   |
| My with theoretical service life of 100 km (from a guide perspective only) | 207 Nm   |
| Mz with theoretical service life of 100 km (from a guide perspective only) | 207 Nm   |
| Max. feed force Fx   | 350 N  |
| Torsional mass moment of inertia It  | 90.5E+03 mm <sup>4</sup>   |
| Mass moment of inertia JH per metre of stroke                              | 0.35257 kgcm <sup>2</sup>  |
| Mass moment of inertia JL per kg of working load                           | 0.064846 kgcm <sup>2</sup>   |
| Mass moment of inertia, JO   | 0.07856 kgcm <sup>2</sup>  |
| Feed constant  | 16 mm/U  |
| Moving mass  | 978 g  |
| Additional weight per 10 mm stroke   | 88 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   |
| Materials note   | Contains PWIS substances   |

| Feature              | Value                           |
|----------------------|---------------------------------|
|                      | Conforms to RoHS                |
| Material cover tape  | High alloy steel, non-corrosive |
| Material drive cover | Die-cast aluminium, painted     |
| Material guide slide | Steel                           |
| Material guide rail  | Steel                           |
| Material slide       | Aluminium die cast              |
| Material spindle nut | Steel                           |
| Material spindle     | Steel                           |