

spindle axis ELGC-BS-KF-80-800-16P

Part number: 8061504

☆ Core product range

FESTO



Data sheet

Feature	Value
Working stroke	800 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 with recirculating ball bearing spindle
Motor type	Stepper motor Servomotor
Spindle type	Ball screw
Max. acceleration	15 m/s ²
Max. speed	3,750 1/min 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 ⁴
Area moment of inertia 2nd degree Iz	1,660E+03 mm ⁴
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 ⁴
Mass moment of inertia JH per metre of stroke	0.35257 kgcm ²
Mass moment of inertia JL per kg of working load	0.064846 kgcm ²
Mass moment of inertia, JO	0.07856 kgcm ²
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