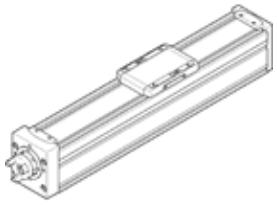
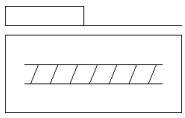
spindle axis
ELGC-BS-KF-80-600-16P

Part number: 8061503
☆ Core product range

FESTO





Data sheet

Feature	Value
Working stroke	600 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/s2
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 mm4
Area moment of inertia 2nd degree Iz	1,660E+03 mm4
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 mm4
Mass moment of inertia JH per metre of stroke	0.35257 kgcm2
Mass moment of inertia JL per kg of working load	0.064846 kgcm2
Mass moment of inertia, JO	0.07856 kgcm2
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