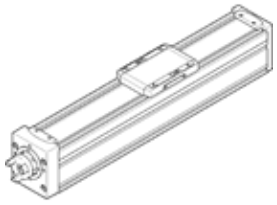
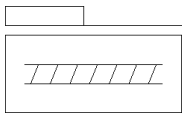
spindle axis
ELGC-BS-KF-32-500-8P

Part number: 8061481
☆ Core product range

FESTO





Data sheet

Feature	Value
Working stroke	500 mm
Size	32
Stroke reserve	0 mm
Spindle diameter	8 mm
Spindle pitch	8 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	4,500 1/min 0.6 m/s
Repetition accuracy	±0,015 mm
Protection class	IP40
Ambient temperature	0 ... 50 °C
Area moment of inertia 2nd degree Iy	38E+03 mm4
Area moment of inertia 2nd degree Iz	45E+03 mm4
No-load torque at maximum travel speed	0.04 Nm
No-load torque at minimum travel speed	0.02 Nm
Max. force Fy	150 N
Max. force Fz	300 N
Fy with theoretical service life of 100 km (from a guide perspective only)	552 N
Fz with theoretical service life of 100 km (from a guide perspective only)	1,104 N
Max. torque Mx	1.3 Nm
Max. torque My	1.1 Nm
Max. torque Mz	1.1 Nm
Mx with theoretical service life of 100 km (from a guide perspective only	5 Nm
My with theoretical service life of 100 km (from a guide perspective only)	4 Nm
Mz with theoretical service life of 100 km (from a guide perspective only)	4 Nm
Max. feed force Fx	40 N
Torsional mass moment of inertia It	1.7E+03 mm4
Mass moment of inertia JH per metre of stroke	0.02218 kgcm2
Mass moment of inertia JL per kg of working load	0.016211 kgcm2
Mass moment of inertia, JO	0.00274 kgcm2
Feed constant	8 mm/U
Moving mass	83.4 g
Additional weight per 10 mm stroke	18 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	V25
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