

spindle axis ELGC-BS-KF-45-500-10P

Part number: 8061488

☆ Core product range

FESTO



Data sheet

Feature	Value
Working stroke	500 mm
Size	45
Stroke reserve	0 mm
Spindle diameter	10 mm
Spindle pitch	10 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	3,600 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	140E+03 mm ⁴
Area moment of inertia 2nd degree Iz	170E+03 mm ⁴
No-load torque at maximum travel speed	0.12 Nm
No-load torque at minimum travel speed	0.032 Nm
Max. force Fy	300 N
Max. force Fz	600 N
Fy with theoretical service life of 100 km (from a guide perspective only)	1,104 N
Fz with theoretical service life of 100 km (from a guide perspective only)	2,208 N
Max. torque Mx	5.5 Nm
Max. torque My	4.7 Nm
Max. torque Mz	4.7 Nm
Mx with theoretical service life of 100 km (from a guide perspective only)	20 Nm
My with theoretical service life of 100 km (from a guide perspective only)	17 Nm
Mz with theoretical service life of 100 km (from a guide perspective only)	17 Nm
Max. feed force Fx	100 N
Torsional mass moment of inertia It	8.5E+03 mm ⁴
Mass moment of inertia JH per metre of stroke	0.05056 kgcm ²
Mass moment of inertia JL per kg of working load	0.02533 kgcm ²
Mass moment of inertia, JO	0.0082 kgcm ²
Feed constant	10 mm/U
Moving mass	220 g
Additional weight per 10 mm stroke	36 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	V32
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