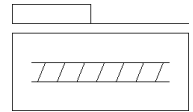
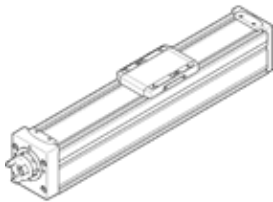


**spindle axis**  
**ELGC-BS-KF-60-600-12P**  
Part number: 8061496

**FESTO**



## Data sheet

Feature	Value
Working stroke	600 mm
Size	60
Stroke reserve	0 mm
Spindle diameter	12 mm
Spindle pitch	12 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 <sup>2</sup>
Max. speed	4,000 1/min 0.8 m/s
Repetition accuracy	±0,01 mm
Protection class	IP40
Ambient temperature	0 ... 50 °C
Area moment of inertia 2nd degree Iy	441E+03 mm <sup>4</sup>
Area moment of inertia 2nd degree Iz	542E+03 mm <sup>4</sup>
No-load torque at maximum travel speed	0.246 Nm
No-load torque at minimum travel speed	0.042 Nm
Max. force Fy	600 N
Max. force Fz	1,800 N
Fy with theoretical service life of 100 km (from a guide perspective only)	2,208 N
Fz with theoretical service life of 100 km (from a guide perspective only)	6,624 N
Max. torque Mx	29.1 Nm
Max. torque My	31.8 Nm
Max. torque Mz	31.8 Nm
Mx with theoretical service life of 100 km (from a guide perspective only)	107 Nm
My with theoretical service life of 100 km (from a guide perspective only)	117 Nm
Mz with theoretical service life of 100 km (from a guide perspective only)	117 Nm
Max. feed force Fx	200 N
Torsional mass moment of inertia It	29.8E+03 mm <sup>4</sup>
Mass moment of inertia JH per metre of stroke	0.10779 kgcm <sup>2</sup>
Mass moment of inertia JL per kg of working load	0.036476 kgcm <sup>2</sup>
Mass moment of inertia, JO	0.02235 kgcm <sup>2</sup>
Feed constant	12 mm/U
Moving mass	525 g
Additional weight per 10 mm stroke	51 g
Dynamic deflection (load moved)	0.05% of the axis length, max. 0.5 mm

Feature	Value
Static deflection (load at standstill)	0.1% of the axis length
Interface code, actuator	T42
Material of end caps	Die-cast aluminium, painted
Material of profile	Anodised wrought aluminium alloy
Materials note	Contains PWIS substances 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