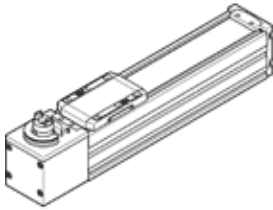


toothed belt axis ELGC-TB-KF-45-500

Part number: 8062770
☆ Core product range

FESTO



Data sheet

Feature	Value
Effective diameter of drive pinion	19.1 mm
Working stroke	500 mm
Size	45
Stroke reserve	0 mm
Toothed-belt stretch	0.187 %
Toothed-belt pitch	2 mm
Assembly position	Any
Guide	Recirculating ball bearing guide
Design structure	Electromechanical linear axis With toothed belt
Motor type	Stepper motor Servomotor
Measuring method: displacement encoder	Incremental
Max. acceleration	15 m/s ²
Max. speed	1.2 m/s
Repetition accuracy	±0,1 mm
Duty cycle	100%
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
Max. drive torque	0.716 Nm
Max. force Fy	300 N
Max. force Fz	600 N
Max. idling displacement resistance	7.8 N
Max. torque Mx	5.5 Nm
Max. torque My	4.7 Nm
Max. torque Mz	4.7 Nm
Max. feed force Fx	75 N
No-load driving torque	0.075 Nm
Torsional mass moment of inertia It	8.5E+03 mm ⁴
Mass moment of inertia JH per metre of stroke	0.0281 kgcm ²
Mass moment of inertia JL per kg of working load	0.9119 kgcm ²
Mass moment of inertia, JO	0.1862 kgcm ²
Feed constant	60 mm/U
Moving mass	169 g
Moving mass with 0 mm stroke	169 g
Slide weight	55 g
Additional weight per 10 mm stroke	23 g
Basic weight for 0 mm stroke	760 g
Product weight	1,906 g
Interface code, actuator	V32
Material of end caps	Die-cast aluminium, painted
Material of profile	Anodised wrought aluminium alloy
Materials note	Contains PWIS substances Conforms to RoHS

Feature	Value
Material cover tape	Stainless steel strip
Material drive cover	Die-cast aluminium, painted
Material guide slide	Heat-treatment steel
Material guide rail	Heat-treatment steel
Material pulleys	High alloy steel, non-corrosive
Material slide	Aluminium die cast
Material toothed belt	Polychloroprene with glass fibres