

# toothed belt axis ELGC-TB-KF-60-300

Part number: 8062777  
☆ Core product range

FESTO



## Data sheet

Feature	Value
Effective diameter of drive pinion	24.83 mm
Working stroke	300 mm
Size	60
Stroke reserve	0 mm
Toothed-belt stretch	0.124 %
Toothed-belt pitch	3 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 <sup>2</sup>
Max. speed	1.5 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	441E+03 mm <sup>4</sup>
Area moment of inertia 2nd degree Iz	542E+03 mm <sup>4</sup>
Max. drive torque	1.49 Nm
Max. force Fy	600 N
Max. force Fz	1,800 N
Max. idling displacement resistance	15.6 N
Max. torque Mx	29.1 Nm
Max. torque My	31.8 Nm
Max. torque Mz	31.8 Nm
Max. feed force Fx	120 N
No-load driving torque	0.194 Nm
Torsional mass moment of inertia It	29.8E+03 mm <sup>4</sup>
Mass moment of inertia JH per metre of stroke	0.0851 kgcm <sup>2</sup>
Mass moment of inertia JL per kg of working load	1.5411 kgcm <sup>2</sup>
Mass moment of inertia, JO	0.8804 kgcm <sup>2</sup>
Feed constant	78 mm/U
Moving mass	482 g
Moving mass with 0 mm stroke	482 g
Slide weight	139 g
Additional weight per 10 mm stroke	43 g
Basic weight for 0 mm stroke	1,775 g
Product weight	3,050 g
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

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