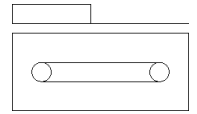
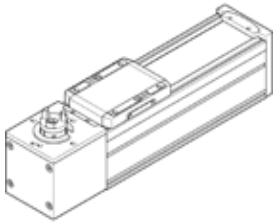


# toothed belt axis

## ELGC-TB-KF-80-1800

Part number: 8062794

FESTO



### Data sheet

Feature	Value
Effective diameter of drive pinion	33.42 mm
Working stroke	1,800 mm
Size	80
Stroke reserve	0 mm
Toothed-belt stretch	0.2 %
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	1,370E+03 mm <sup>4</sup>
Area moment of inertia 2nd degree Iz	1,660E+03 mm <sup>4</sup>
Max. drive torque	4.178 Nm
Max. force Fy	900 N
Max. force Fz	2,700 N
Max. idling displacement resistance	24.7 N
Max. torque Mx	59.8 Nm
Max. torque My	56.2 Nm
Max. torque Mz	56.2 Nm
Max. feed force Fx	250 N
No-load driving torque	0.413 Nm
Torsional mass moment of inertia It	90.5E+03 mm <sup>4</sup>
Mass moment of inertia JH per metre of stroke	0.1927 kgcm <sup>2</sup>
Mass moment of inertia JL per kg of working load	2.793 kgcm <sup>2</sup>
Mass moment of inertia, JO	2.912 kgcm <sup>2</sup>
Feed constant	105 mm/U
Moving mass	901 g
Moving mass with 0 mm stroke	901 g
Slide weight	272 g
Additional weight per 10 mm stroke	73 g
Basic weight for 0 mm stroke	3,500 g
Product weight	16,611 g
Interface code, actuator	T46
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