

# toothed belt axis

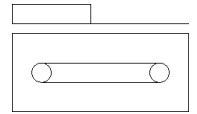
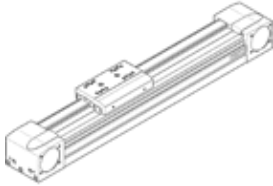
## EGC-80-500-TB-KF-0H-GK

Part number: 3013354

☆ Core product range

With recirculating ball bearing guide

FESTO



## Data sheet

Feature	Value
Effective diameter of drive pinion	28.65 mm
Working stroke	500 mm
Size	80
Stroke reserve	0 mm
Toothed-belt stretch	0.24 %
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
Max. acceleration	50 m/s <sup>2</sup>
Max. speed	5 m/s
Repetition accuracy	±0,08 mm
Duty cycle	100 %
Protection class	IP40
Ambient temperature	-10 ... 60 °C
Area moment of inertia 2nd degree Ix	844E+03 mm <sup>4</sup>
Area moment of inertia 2nd degree Iy	1,160E+03 mm <sup>4</sup>
Max. force Fy	3,050 N
Max. force Fz	3,050 N
Max. idling displacement resistance	28 N
Max. torque Mx	36 Nm
Max. feed force Fx	350 N
Torsional mass moment of inertia It	551E+03 mm <sup>4</sup>
Mass moment of inertia JH per metre of stroke	0.19 kgcm <sup>2</sup>
Mass moment of inertia JL per kg of working load	2.05 kgcm <sup>2</sup>
Feed constant	90 mm/U
Material of end caps	Wrought Aluminium alloy Anodised
Material of profile	Wrought Aluminium alloy Anodised
Materials note	Contains PWIS substances Conforms to RoHS
Material drive cover	Wrought Aluminium alloy Anodised
Material guide slide	Steel
Material guide rail	Steel
Material pulleys	High alloy steel, non-corrosive
Material slide	Wrought Aluminium alloy Anodised
Material toothed belt clamping piece	Stainless steel casting
Material toothed belt	polychloroprene with glass cord and nylon coating