

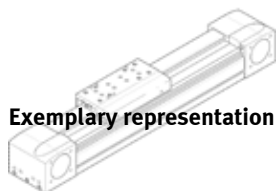
Toothed belt axis EGC-80- -TB-KF

Part number: 556814

★ Core product range

With recirculating ball bearing guide

FESTO



Exemplary representation

Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Effective diameter of drive pinion	28.65 mm
Working stroke	50 ... 8,500 mm
Size	80
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 ²
Max. speed	5 m/s
Repetition accuracy	±0,08 mm
Duty cycle	100 %
CE symbol (see declaration of conformity)	according to EU-Ex protection guideline (ATEX)
UKCA marking (see declaration of conformity)	To UK EX instructions
Explosion protection certification outside the EU	EPL Db (GB) EPL Gb (GB)
ATEX category Gas	II 2G
Explosion ignition protection type Gas	Ex h IIC T4 Gb
Explosion-proof ambient temperature	-10°C ≤ Ta ≤ +60°C
PWIS conformity	VDMA24364 zone III
Protection class	IP40
Ambient temperature	-10 ... 60 °C
Area moment of inertia 2nd degree Ix	844E+03 mm ⁴
Area moment of inertia 2nd degree Iy	1,160E+03 mm ⁴
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 ⁴
Mass moment of inertia JH per meter of stroke	0.19 kgcm ²
Mass moment of inertia JL per kg of working load	2.05 kgcm ²
Feed constant	90 mm/U
Pneumatic port on clamping unit	M5
Material of end caps	Anodised wrought aluminium alloy
Material of profile	Anodised wrought aluminium alloy
Materials note	Conforms to RoHS
Material drive cover	Anodised wrought aluminium alloy
Material guide slide	Steel

Feature	Value
Material guide rail	Steel
Material pulleys	High alloy steel, non-corrosive
Material slide	Anodised wrought aluminium alloy
Material toothed belt clamping piece	Stainless steel casting
Material toothed belt	polychloroprene with glass cord and nylon coating Polyurethane with steel cord and Nylon covering