

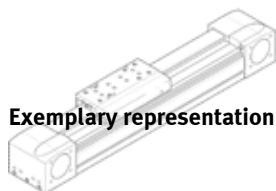
Toothed belt axis EGC-50- -TB-KF

Part number: 556812

★ 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	18.46 mm
Working stroke	50 ... 1,900 mm
Size	50
Toothed-belt stretch	0.094 %
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
Max. acceleration	50 m/s ²
Max. speed	3 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	84E+03 mm ⁴
Area moment of inertia 2nd degree Iy	114E+03 mm ⁴
Max. force Fy	650 N
Max. force Fz	650 N
Max. idling displacement resistance	8 N
Max. torque Mx	3.5 Nm
Max. feed force Fx	50 N
Torsional mass moment of inertia It	42.5E+03 mm ⁴
Mass moment of inertia JH per meter of stroke	0.026 kgcm ²
Mass moment of inertia JL per kg of working load	0.85 kgcm ²
Feed constant	58 mm/U
Material of end caps	Wrought Aluminum alloy Anodized
Material of profile	Wrought Aluminum alloy Anodized
Materials note	Conforms to RoHS
Material drive cover	Wrought Aluminum alloy

Feature	Value
	Anodized
Material guide slide	Steel
Material guide rail	Steel
Material pulleys	High alloy steel, non-corrosive
Material slide	Wrought Aluminum alloy Anodized
Material toothed belt clamping piece	Nickel plated
Material toothed belt	polychloroprene with glass cord and nylon coating