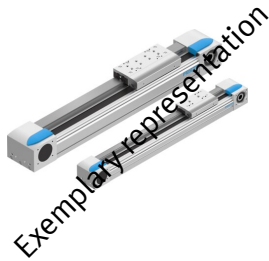



# Toothed belt axis EGC-185- -TB-KF

Part number: 556817

FESTO



 [General operating condition](#)

## Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Effective diameter of drive pinion	73.85 mm
Working stroke	50 mm ... 8500 mm
Size	185
Toothed-belt pitch	8 mm
Mounting position	Any
Guide	Recirculating ball bearing guide
Design	Electromechanical linear axis With toothed belt
Type of motor	Stepper motor Servo motor
Symbol	00991212
Functional principle of measuring system	Incremental
Max. acceleration	50 m/s <sup>2</sup>
Max. speed	5 m/s
Repetition accuracy	±0.1 mm
Duty cycle	100%
LABS (PWIS) conformity	VDMA24364 zone III
Degree of protection	IP40
Ambient temperature	-10 °C ... 60 °C
2nd moment of area Iy	2.34E9 mm <sup>4</sup>
2nd moment of area Iz	2.74E9 mm <sup>4</sup>
Max. force Fy	15200 N
Max. force Fz	15200 N
Max. force Fy total axis	15200 N
Max. force Fz total axis	15200 N
Fy at theoretical life value of 100 km (only guide consideration)	55997 N
Fz at theoretical life value of 100 km (only guide consideration)	55997 N
Max. idle running transfer resistance	110 N
Max. moment Mx	529 Nm
Max. moment My	1157 Nm ... 1820 Nm
Max. moment Mz	1157 Nm ... 1820 Nm
Max. moment Mx total axis	529 Nm
Max. moment My total axis	1157 Nm ... 1820 Nm
Max. moment Mz total axis	1157 Nm ... 1820 Nm
Mx at theoretical life value of 100 km (only guide consideration)	1949 Nm

Feature	Value
My at theoretical life value of 100 km (only guide consideration)	4262 Nm ... 6705 Nm
Mz at theoretical life value of 100 km (only guide consideration)	4262 Nm ... 6705 Nm
Max. feed force Fx	2500 N
Torsional mass moment of inertia It	1.41E9 mm <sup>4</sup>
Mass moment of inertia JH per metre of stroke	7.6 kgcm <sup>2</sup>
Mass moment of inertia JL per kg of working load	13.694 kgcm <sup>2</sup>
Feed constant	232 mm/U
Reference service life	5000 km
Pneumatic connection, clamping unit	M5
Material end cap	Anodised wrought aluminium alloy
Material profile	Anodised wrought aluminium alloy
Note on materials	RoHS compliant
Material drive cover	Anodised wrought aluminium alloy
Material guide slide	Steel
Material guide rail	Steel
Material pulleys	High-alloy stainless steel
Material slide	Anodised wrought aluminium alloy
Material toothed belt clamping piece	Cast stainless steel
Material toothed belt	Polychloroprene with glass filament and nylon coating Polyurethane with steel cord and nylon cover