

# toothed belt axis

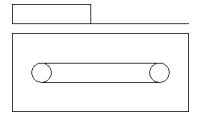
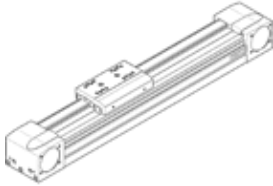
## EGC-70-300-TB-KF-0H-GK

Part number: 3012492

★ Core product range

With recirculating ball bearing guide

FESTO



## Data sheet

Feature	Value
Effective diameter of drive pinion	24.83 mm
Working stroke	300 mm
Size	70
Stroke reserve	0 mm
Toothed-belt stretch	0.08 %
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 %
PWIS conformity	VDMA24364 zone III
Protection class	IP40
Ambient temperature	-10 ... 60 °C
Area moment of inertia 2nd degree I <sub>x</sub>	395E+03 mm <sup>4</sup>
Area moment of inertia 2nd degree I <sub>y</sub>	577E+03 mm <sup>4</sup>
Max. force F <sub>y</sub>	1,850 N
Max. force F <sub>z</sub>	1,850 N
Max. idling displacement resistance	14.5 N
Max. torque M <sub>x</sub>	16 Nm
Max. feed force F <sub>x</sub>	100 N
Torsional mass moment of inertia I <sub>t</sub>	240E+03 mm <sup>4</sup>
Mass moment of inertia J <sub>H</sub> per metre of stroke	0.11 kgcm <sup>2</sup>
Mass moment of inertia J <sub>L</sub> per kg of working load	1.54 kgcm <sup>2</sup>
Feed constant	78 mm/U
Material of end caps	Wrought Aluminium alloy Anodised
Material of profile	Wrought Aluminium alloy Anodised
Materials note	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	Nickel plated
Material toothed belt	polychloroprene with glass cord and nylon coating