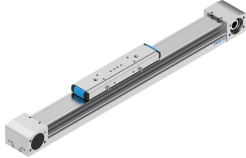


Toothed belt axis ELGA-TB-KF-70-300-0H

Part number: 8041851

FESTO



 General operating condition

Data sheet

Feature	Value
Effective diameter of drive pinion	28.65 mm
Working stroke	300 mm
Size	70
Stroke reserve	0 mm
Toothed-belt stretch	0.213 %
Toothed-belt pitch	3 mm
Mounting position	optional
Guide	Recirculating ball bearing guide
Design	Electromechanical linear axis With toothed belt
Type of motor	Stepper motor Servo motor
Functional principle of measuring system	Incremental
Max. acceleration	50 m/s ²
Max. speed	5 m/s
Repetition accuracy	±0.08 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	146050 mm ⁴
2nd moment of area Iz	459290 mm ⁴
Max. drive torque	5.02 Nm
Max. force Fy	1500 N
Max. force Fz	1850 N
Max. idle running transfer resistance	41.9 N
Max. moment Mx	16 Nm
Max. moment My	132 Nm
Max. moment Mz	132 Nm
Max. feed force Fx	350 N
Frictional torque independent of load	0.6 Nm
Torsional mass moment of inertia It	103880 mm ⁴
Mass moment of inertia JH per metre of stroke	0.19 kgcm ²
Mass moment of inertia JL per kg of working load	2.05 kgcm ²
Mass moment of inertia JO	2.43 kgcm ²
Mass moment of inertia JW for additional slide	1.86 kgcm ²

Feature	Value
Feed constant	90 mm/U
Lubrication interval dependent on operating distance	1000 km
Weight of slide	900 g
Weight of additional slide	740 g
Basic weight for 0 mm stroke	2970 g
Additional weight per 10 mm stroke	39 g
Material profile	Wrought aluminium alloy Anodised
Note on materials	RoHS-compliant
Material cover tape	Stainless steel strip
Material drive cover	Wrought aluminium alloy Anodised
Material guide slide	Stainless steel
Material guide rail	Stainless steel
Material pulleys	High-alloy stainless steel
Material slide	Wrought aluminium alloy Anodised
Material toothed belt clamping piece	Stainless steel casting
Material toothed belt	Polychloroprene with glass filament and nylon coating