

Toothed belt axis EGC-70-500-TB-KF-0H-GK

Part number: 3012494

FESTO



Data sheet

Feature	Value
Effective diameter of drive pinion	24.83 mm
Working stroke	500 mm
Size	70
Stroke reserve	0 mm
Toothed-belt stretch	0.08 %
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
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 Ix	395000 mm ⁴
2nd moment of area Iy	577000 mm ⁴
Max. force Fy	1850 N
Max. force Fz	1850 N
Max. idle running transfer resistance	14.5 N
Max. moment Mx	16 Nm
Max. feed force Fx	100 N
Torsional mass moment of inertia It	240000 mm ⁴
Mass moment of inertia JH per metre of stroke	0.11 kgcm ²
Mass moment of inertia JL per kg of working load	1.54 kgcm ²
Feed constant	78 mm/U
Material end cap	Wrought aluminium alloy Anodised

Feature	Value
Material profile	Wrought aluminium alloy Anodised
Note on materials	RoHS-compliant
Material drive cover	Wrought aluminium alloy Anodised
Material guide slide	Steel
Material guide rail	Steel
Material pulleys	High-alloy stainless steel
Material slide	Wrought aluminium alloy Anodised
Material toothed belt clamping piece	Nickel-plated
Material toothed belt	Polychloroprene with glass filament and nylon coating