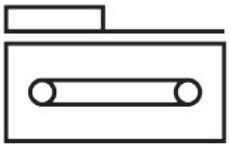
Toothed belt axis
EGC-70-600-TB-KF-0H-GK

Part number: 3012495



Data sheet

Feature	Value
Effective diameter of drive pinion	24.83 mm
Working stroke	600 mm
Size	70
Stroke reserve	0 mm
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/s²
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	395000 mm⁴
2nd moment of area Iz	577000 mm⁴
Max. force Fy	1850 N
Max. force Fz	1850 N
Max. force Fy total axis	1850 N
Max. force Fz total axis	1850 N
Fy at theoretical life value of 100 km (only guide consideration)	6842 N
Fz at theoretical life value of 100 km (only guide consideration)	6842 N
Max. idle running transfer resistance	14.5 N
Max. moment Mx	16 Nm
Max. moment My	51 Nm
Max. moment Mz	51 Nm
Max. moment Mx total axis	16 Nm
Max. moment My total axis	51 Nm

Feature	Value
Max. moment Mz total axis	51 Nm
Mx at theoretical life value of 100 km (only guide consideration)	58.9 Nm
My at theoretical life value of 100 km (only guide consideration)	188 Nm
Mz at theoretical life value of 100 km (only guide consideration)	188 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
Reference service life	5000 km
Material end cap	Wrought aluminium alloy Anodised
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 oder Nitrilkautschuk (NBR) mit Glascord und Nylonüberzug