toothed belt axis **ELGC-TB-KF-45-1000** Part number: 8062773







Data sheet

Working stroke 1,000 mm Size 45 Stroke reserve 0 mm Toothed-belt stretch 0,187 % Assembly position Any Assembly position Any Selection Selection Measuring method: displacement encoder Incremental For proximity sensor For inductive sensors For inductive	Feature	Value
Size Stroke reserve O mm Toothed-belt stretch O .187 % Toothed-belt stretch O .187 % Toothed-belt pitch Any Guide Reforculating ball bearing guide Electromechanical linear axis With toothed belt Stepper motor Servomotor Measuring method: displacement encoder Measuring method: displacement encoder Position detection For proximity sensors For inductive sensors Max. acceleration For proximity sensors For inductive sensors Max. acceleration 15 m/s2 Max. speed 1.2 m/s Repetition accuracy 9.0,1 mm Duty cycle 10.0 % PWIS conformity VDMA24364 zone III RSBP classification to CD-0033 F1 a Cleamoom class F10 class of Classification to CD-0033 F1 a RSBP classification to CD-0033 F	Effective diameter of drive pinion	19.1 mm
Stroke reserve 0 mm Toothed-belt stretch 0.187 % Toothed-belt prich 2 mm Assembly position Any Selde Recirculating ball bearing guide Electromechanical linear axis With toothed belt With tooth	Working stroke	1,000 mm
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	Distance between the slide surface and the centre of the guide	42.8 mm



Feature	Value
Max. feed force Fx	75 N
No-load driving torque	0.075 Nm
Torsional mass moment of inertia It	8.5E+03 mm4
Mass moment of inertia JH per metre of stroke	0.0281 kgcm2
Mass moment of inertia JL per kg of working load	0.9119 kgcm2
Mass moment of inertia, JO	0.1862 kgcm2
Feed constant	60 mm/U
Maintenance interval	Life-time lubrication
Moving mass	169 g
Moving mass with 0 mm stroke	169 g
Slide weight	55 g
Product weight	3,051 g
Basic weight for 0 mm stroke	760 g
Additional weight per 10 mm stroke	23 g
Dynamic deflection (load moved)	0.05% of the axis length, max. 0.5 mm
Static deflection (load at standstill)	0.1% of the axis length
Interface code, actuator	V32
Material of end caps	Die-cast aluminium, painted
Material of profile	Anodised wrought aluminium alloy
Materials note	Conforms to RoHS
Material cover tape	Stainless steel strip
Material drive cover	Die-cast aluminium, painted
Material guide slide	Heat-treatment steel
Material guide rail	Heat-treatment steel
Material pulleys	High alloy steel, non-corrosive
Material slide	Aluminium die cast
Material toothed belt	Polychloroprene with glass fibres