

Toothed belt axis ELGR-TB-35-500-0H

Part number: 8083774

FESTO



Data sheet

Feature	Value
Effective diameter of drive pinion	18.46 mm
Working stroke	500 mm
Size	35
Toothed-belt stretch	0.094 %
Toothed-belt pitch	2 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	0.9 m/s...3 m/s
Repetition accuracy	±0.1 mm
Duty cycle	100%
LABS (PWIS) conformity	VDMA24364 zone III
Degree of protection	IP20
Ambient temperature	-10 °C...50 °C
2nd moment of area I _y	3770 mm ⁴
2nd moment of area I _z	4190 mm ⁴
Max. drive torque	0.46 Nm
Max. force F _y	50 N
Max. force F _z	50 N
Max. idle running transfer resistance	10.8 N
Max. feed force F _x	50 N
Frictional torque independent of load	0.1 Nm
Mass moment of inertia J _H per metre of stroke	0.026 kgcm ²
Mass moment of inertia J _L per kg of working load	0.85 kgcm ²
Feed constant	58 mm/U
Reference service life	5000 km
Additional moving mass per 10 mm stroke	0.31 g
Product weight	2720 g

Feature	Value
Additional weight per 10 mm stroke	25 g
Material profile	Wrought aluminium alloy Anodised
Note on materials	RoHS-compliant
Material drive cover	Wrought aluminium alloy Anodised
Material pulleys	High-alloy stainless steel
Material slide	Wrought aluminium alloy Anodised
Material toothed belt clamping piece	Beryllium bronze
Material toothed belt	Polychloroprene with glass filament and nylon coating