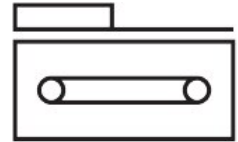


Belt driven linear actuator ELGA-TB-G-70- -

Part number: 570502

FESTO



[PDF](#) General operating condition

Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Drive pinion effective diameter	28.65 mm
Working stroke	50 mm ... 8500 mm
Size	70
Toothed belt pitch	3 mm
Mounting position	Any
Guide	Sliding guide
Structural design	with toothed belt
Motor type	Stepper motor Servo motor
Symbol	00991212
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	147000 mm ⁴
2nd moment of area Iz	425000 mm ⁴
Max. driving torque	5 Nm
Max. force Fy	80 N
Max. force Fz	400 N
Max. force Fy total axis	80 N
Max. force Fz total axis	400 N
Max. no-load resistance to shifting	35 N
Max. torque Mx	5 Nm
Max. torque My	30 Nm
Max. torque Mz	10 Nm
Max. moment Mx total axis	5 Nm
Max. moment My total axis	30 Nm
Max. moment Mz total axis	10 Nm
Max. feed force Fx	350 N
No-load driving torque	0.5 Nm
Torsion moment of inertia It	71500 mm ⁴

Feature	Value
Mass moment of inertia JH per meter of stroke	0.019 kgcm ²
Mass moment of inertia JL per kg of payload	2.05 kgcm ²
Mass moment of inertia JO	1.75 kgcm ²
Feed constant	90 mm/U
Reference service life	5000 km
Slide weight	570 g
Basic weight with 0 mm stroke	2160 g
Additional weight per 10 mm stroke	26.4 g
Dynamic deflection (load moved)	0.05% of axis length, maximum 0.5 mm
Static deflection (load at standstill)	0.1 % of axis length
Profile material	Wrought aluminum alloy, anodized
Note on materials	RoHS-compliant
Cover strip material	Stainless steel strip
Drive cover material	Wrought aluminum alloy, anodized
Slide carriage material	POM
Guide rail material	Wrought aluminum alloy, anodized
Belt pulley material	High-alloy stainless steel
Slide material	Wrought aluminum alloy, anodized
Toothed belt clamping component material	Cast stainless steel
Toothed belt material	Polyurethane with steel cord and nylon cover Polychloroprene or nitrile rubber (NBR) with glass cord and nylon coating