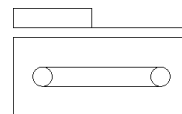
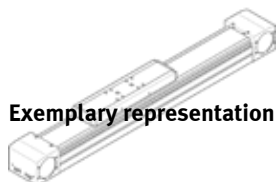


Toothed belt axis ELGA-TB-G-80- -

Part number: 570503

FESTO

[With plain-bearing guide.](#)



Exemplary representation

Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Effective diameter of drive pinion	39.79 mm
Working stroke	50 ... 8,500 mm
Size	80
Toothed-belt stretch	0.19 %
Toothed-belt pitch	5 mm
Assembly position	Any
Guide	Plain-bearing guide
Design structure	Electromechanical linear axis With toothed belt
Motor type	Stepper motor Servomotor
Max. acceleration	50 m/s ²
Max. speed	5 m/s
Repetition accuracy	±0,08 mm
Duty cycle	100 %
PWIS conformity	VDMA24364 zone III
Protection class	IP40
Ambient temperature	-10 ... 60 °C
Area moment of inertia 2nd degree Ix	277E+03 mm ⁴
Area moment of inertia 2nd degree Iy	907E+03 mm ⁴
Max. drive torque	16.9 Nm
Max. force Fy	200 N
Max. force Fz	800 N
Max. idling displacement resistance	50 N
Max. torque Mx	10 Nm
Max. torque My	60 Nm
Max. torque Mz	20 Nm
Max. feed force Fx	800 N
No-load driving torque	1 Nm
Torsional mass moment of inertia It	108E+03 mm ⁴
Mass moment of inertia JH per meter of stroke	0.093 kgcm ²
Mass moment of inertia JL per kg of working load	3.96 kgcm ²
Mass moment of inertia, JO	6.66 kgcm ²
Feed constant	125 mm/U
Material of end caps	Anodised wrought aluminium alloy
Material of profile	Anodised wrought aluminium alloy
Materials note	Conforms to RoHS
Material cover tape	Stainless steel strip
Material drive cover	Anodised wrought aluminium alloy
Material guide slide	POM
Material guide rail	Anodised wrought aluminium alloy
Material pulleys	High alloy steel, non-corrosive
Material slide	Anodised wrought aluminium alloy
Material toothed belt clamping piece	Stainless steel casting
Material toothed belt	polychloroprene with glass cord and nylon coating Polyurethane with steel cord and Nylon covering