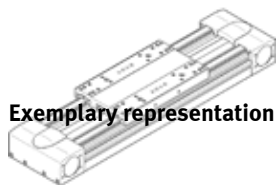


# Toothed belt axis EGC-HD-160- -TB

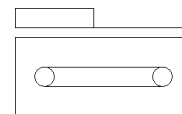
Part number: 556824

FESTO

With recirculating ball bearing guide - heavy-duty 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 ... 5,000 mm
Size	160
Toothed-belt stretch	0.23 %
Toothed-belt pitch	5 mm
Assembly position	Any
Guide	Recirculating ball bearing guide
Design structure	Electromechanical linear axis With toothed belt
Motor type	Stepper motor Servomotor
Max. acceleration	50 m/s <sup>2</sup>
Max. speed	5 m/s
Duty cycle	100 %
PWIS conformity	VDMA24364 zone III
Protection class	IP40
Ambient temperature	-10 ... 60 °C
Area moment of inertia 2nd degree Iy	1,290E+03 mm <sup>4</sup>
Area moment of inertia 2nd degree Iz	98,900E+03 mm <sup>4</sup>
Max. drive torque	20 Nm
Max. force Fy	5,600 N
Max. force Fz	5,600 N
Max. idling displacement resistance	105.5 N
Max. torque Mx	300 Nm
Max. torque My	500 Nm
Max. torque Mz	500 Nm
Max. feed force Fx	1,000 N
No-load driving torque	2.1 Nm
Torsional mass moment of inertia It	1,040E+03 mm <sup>4</sup>
Mass moment of inertia JH per meter of stroke	1.267 kgcm <sup>2</sup>
Mass moment of inertia JL per kg of working load	3.96 kgcm <sup>2</sup>
Mass moment of inertia, JO	14.49 kgcm <sup>2</sup>
Mass moment of inertia JW for additional slide	11.734 kgcm <sup>2</sup>
Feed constant	125 mm/U
Reference value, running performance	5,000 km
Slide weight	2,571 g
Additional slide weight	2,022 g
Basic weight for 0 mm stroke	9,050 g
Additional weight per 10 mm stroke	107 g
Material of profile	Anodised wrought aluminium alloy
Materials note	Conforms to RoHS
Material drive cover	Anodised wrought aluminium alloy

Feature	Value
Material pulleys	High alloy steel, non-corrosive
Material slide	Anodised wrought aluminium alloy
Material toothed belt clamping piece	Beryllium bronze
Material toothed belt	polychloroprene with glass cord and nylon coating Polyurethane with steel cord and Nylon covering