

Toothed belt axis EGC-HD-125- -TB

Part number: 556823

FESTO



Data sheet

Feature	Value
Effective diameter of drive pinion	32.47 mm
Working stroke	50 mm...3000 mm
Size	125
Toothed-belt stretch	0.31 %
Toothed-belt pitch	3 mm
Mounting position	optional
Guide	Recirculating ball bearing guide
Design	Electromechanical linear axis With toothed belt
Type of motor	Stepper motor Servo motor
Functional principle of measuring system	Incremental
Max. acceleration	40 m/s ²
Max. speed	3 m/s
Duty cycle	100%
LABS (PWIS) conformity	VDMA24364 zone III
Degree of protection	IP40
Ambient temperature	-10 °C...60 °C
2nd moment of area Iy	689000 mm ⁴
2nd moment of area Iz	4090000 mm ⁴
Max. drive torque	7.2 Nm
Max. force Fy	3650 N
Max. force Fz	3650 N
Max. force Fy total axis	3650 N
Max. force Fz total axis	3650 N
Fy at theoretical life value of 100 km (only guide consideration)	13446 N
Fz at theoretical life value of 100 km (only guide consideration)	13446 N
Max. idle running transfer resistance	67.8 N
Max. moment Mx	140 Nm
Max. moment My	275 Nm
Max. moment Mz	275 Nm
Max. moment Mx total axis	140 Nm

Feature	Value
Max. moment My total axis	275 Nm
Max. moment Mz total axis	275 Nm
Max at theoretical life value of 100 km (only guide consideration)	515 Nm
My at theoretical life value of 100 km (only guide consideration)	1013 Nm
Mz at theoretical life value of 100 km (only guide consideration)	1013 Nm
Max. feed force Fx	450 N
Frictional torque independent of load	1.1 Nm
Torsional mass moment of inertia It	627000 mm ⁴
Mass moment of inertia JH per metre of stroke	0.38 kgcm ²
Mass moment of inertia JL per kg of working load	2.635 kgcm ²
Mass moment of inertia JO	4.639 kgcm ²
Mass moment of inertia JW for additional slide	3.3 kgcm ²
Feed constant	102 mm/U
Reference service life	5000 km
Weight of slide	1218 g
Weight of additional slide	1026 g
Basic weight for 0 mm stroke	4720 g
Additional weight per 10 mm stroke	73 g
Material profile	Anodised wrought aluminium alloy
Note on materials	RoHS-compliant
Material drive cover	Anodised wrought aluminium alloy
Material pulleys	High-alloy stainless steel
Material slide	Anodised wrought aluminium alloy
Material toothed belt clamping piece	Beryllium bronze
Material toothed belt	Polychloroprene with glass filament and nylon coating Polyurethane with steel cord and nylon cover