

# Ball screw axis EGC-HD-125- -BS

Part number: 556819

**FESTO**



## Data sheet

Feature	Value
Working stroke	50 mm...900 mm
Size	125
Screw diameter	12 mm
Mounting position	Any
Guide	Recirculating ball bearing guide
Structural design	Electromechanical linear axis with ball screw
Motor type	Stepper motor Servo motor
Spindle type	Ball screw
Measuring principle of linear potentiometer	Incremental
Max. acceleration	15 m/s <sup>2</sup>
Max. speed	0.5 m/s
Repetition accuracy	±0.02 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	715000 mm <sup>4</sup>
2nd moment of area Iz	4110000 mm <sup>4</sup>
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 with theoretical service life of 100 km (from a guide perspective only)	13446 N
Fz with theoretical service life of 100 km (from a guide perspective only)	13446 N
Max. torque Mx	140 Nm
Max. torque My	275 Nm
Max. torque Mz	275 Nm
Max. moment Mx total axis	140 Nm
Max. moment My total axis	275 Nm
Max. moment Mz total axis	275 Nm

Feature	Value
Mx with theoretical service life of 100 km (from a guide perspective only)	515 Nm
My with theoretical service life of 100 km (from a guide perspective only)	1013 Nm
Mz with theoretical service life of 100 km (from a guide perspective only)	1013 Nm
Max. radial force on actuator shaft	220 N
Max. feed force Fx	400 N
Torsion moment of inertia It	380000 mm <sup>4</sup>
Mass moment of inertia JH per meter of stroke	0.0142 kgcm <sup>2</sup>
Reference service life	5000 km
Slide weight	1049 g
Additional slide weight	978 g
Basic weight with 0 mm stroke	4123 g
Additional weight per 10 mm stroke	90 g
Material of end caps	Wrought aluminum alloy Anodized
Moment compensator material	Wrought aluminum alloy Anodized
Profile material	Wrought aluminum alloy Anodized
Note on materials	RoHS-compliant
Drive cover material	Wrought aluminum alloy Anodized
Slide carriage material	Steel
Guide rail material	Steel
Slide material	Wrought aluminum alloy Anodized
Spindle nut material	Steel
Spindle material	Steel