

# Ball screw axis EGC-HD-220- -BS

Part number: 556821

**FESTO**



## Data sheet

Feature	Value
Working stroke	50 mm...2400 mm
Size	220
Screw diameter	25 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	1.5 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	5570000 mm <sup>4</sup>
2nd moment of area Iz	35200000 mm <sup>4</sup>
Max. force Fy	13000 N
Max. force Fz	13000 N
Max. force Fy total axis	13000 N
Max. force Fz total axis	13000 N
Fy with theoretical service life of 100 km (from a guide perspective only)	47892 N
Fz with theoretical service life of 100 km (from a guide perspective only)	47892 N
Max. torque Mx	900 Nm
Max. torque My	1450 Nm
Max. torque Mz	1450 Nm
Max. moment Mx total axis	900 Nm
Max. moment My total axis	1450 Nm
Max. moment Mz total axis	1450 Nm

Feature	Value
Mx with theoretical service life of 100 km (from a guide perspective only)	3315 Nm
My with theoretical service life of 100 km (from a guide perspective only)	5341 Nm
Mz with theoretical service life of 100 km (from a guide perspective only)	5341 Nm
Max. radial force on actuator shaft	500 N
Max. feed force Fx	1500 N
Torsion moment of inertia It	3120000 mm <sup>4</sup>
Mass moment of inertia JH per meter of stroke	0.2756 kgcm <sup>2</sup>
Reference service life	5000 km
Slide weight	5826 g
Additional slide weight	5505 g
Basic weight with 0 mm stroke	19137 g
Additional weight per 10 mm stroke	250 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