

Ball screw axis EGC-HD-220- -BS

Part number: 556821

FESTO



 General operating condition

Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Working stroke	50 mm ... 2400 mm
Size	220
Spindle diameter	25 mm
Mounting position	optional
Guide	Recirculating ball bearing guide
Design	Electromechanical linear axis With ball screw
Type of motor	Stepper motor Servo motor
Spindle type	Ball screw
Symbol	00991211
Functional principle of measuring system	Incremental
Max. acceleration	15 m/s ²
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 ⁴
2nd moment of area Iz	3.52E7 mm ⁴
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 at theoretical life value of 100 km (only guide consideration)	47892 N
Fz at theoretical life value of 100 km (only guide consideration)	47892 N
Max. moment Mx	900 Nm
Max. moment My	1450 Nm
Max. moment Mz	1450 Nm
Max. moment Mx total axis	900 Nm
Max. moment My total axis	1450 Nm
Max. moment Mz total axis	1450 Nm
Mx at theoretical life value of 100 km (only guide consideration)	3315 Nm
My at theoretical life value of 100 km (only guide consideration)	5341 Nm

Feature	Value
Mz at theoretical life value of 100 km (only guide consideration)	5341 Nm
Max. radial force at drive shaft	500 N
Max. feed force Fx	1500 N
Torsional mass moment of inertia It	3120000 mm ⁴
Mass moment of inertia JH per metre of stroke	0.2756 kgcm ²
Reference service life	5000 km
Weight of slide	5826 g
Weight of additional slide	5505 g
Basic weight for 0 mm stroke	19137 g
Additional weight per 10 mm stroke	250 g
Material end cap	Wrought aluminium alloy Anodised
Material driver	Wrought aluminium alloy Anodised
Material profile	Wrought aluminium alloy Anodised
Note on materials	RoHS-compliant
Material drive cover	Wrought aluminium alloy Anodised
Material guide slide	Steel
Material guide rail	Steel
Material slide	Wrought aluminium alloy Anodised
Material spindle nut	Steel
Material spindle	Steel