Ball screw axis
EGC-HD-125- -BS

Part number: 556819

Data sheet

Feature	Value
Working stroke	50 mm...900 mm
Size	125
Spindle diameter	12 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
Functional principle of measuring system	Incremental
Max. acceleration	15 m/s²
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 mm⁴
2nd moment of area Iz	4110000 mm⁴
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. moment Mx	140 Nm
Max. moment My	275 Nm
Max. moment 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 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. radial force at drive shaft	220 N
Max. feed force Fx	400 N
Torsional mass moment of inertia It	380000 mm^4
Mass moment of inertia JH per metre of stroke	0.0142 $kgcm^2$
Reference service life	5000 km
Weight of slide	1049 g
Weight of additional slide	978 g
Basic weight for 0 mm stroke	4123 g
Additional weight per 10 mm stroke	90 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