Ball screw axis
EGC-HD-160- -BS

Part number: 556820

Data sheet

Feature	Value
Working stroke	50 mm...1900 mm
Size	160
Spindle diameter	15 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	1 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	1350000 mm⁴
2nd moment of area Iz	10100000 mm⁴
Max. force Fy	5600 N
Max. force Fz	5600 N
Max. force Fy total axis	5600 N
Max. force Fz total axis	5600 N
Fy at theoretical life value of 100 km (only guide consideration)	20630 N
Fz at theoretical life value of 100 km (only guide consideration)	20630 N
Max. moment Mx	300 Nm
Max. moment My	500 Nm
Max. moment Mz	500 Nm
Max. moment Mx total axis	300 Nm
Max. moment My total axis	500 Nm
Max. moment Mz total axis	500 Nm

Feature	Value
Mx at theoretical life value of 100 km (only guide consideration)	1105 Nm
My at theoretical life value of 100 km (only guide consideration)	1842 Nm
Mz at theoretical life value of 100 km (only guide consideration)	1842 Nm
Max. radial force at drive shaft	250 N
Max. feed force Fx	650 N
Torsional mass moment of inertia It	666000 mm^4
Mass moment of inertia JH per metre of stroke	0.0346 $kgcm^2$
Reference service life	5000 km
Weight of slide	2080 g
Weight of additional slide	1963 g
Basic weight for 0 mm stroke	7210 g
Additional weight per 10 mm stroke	138 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