Spindle axis ELGT-BS-160-600-10P Part number: 8124519



Data sheet

Feature	Value
Working stroke	600 mm
Size	160
Stroke reserve	0 mm
Reversing backlash	<= 0.15 μm
Spindle diameter	20 mm
Spindle pitch	10 mm/U
Assembly position	Any
Guide	Recirculating ball bearing guide
Design structure	Electromechanical linear axis
	with recirculating ball bearing spindle
Motor type	Stepper motor
	Servomotor
Spindle type	Ball screw actuator
Variants	Recommended for production facilities for the manufacture of lithium-
	ion batteries
Max. acceleration	15 m/s2
Max. speed	3,000 1/min
	0.5 m/s
Repetition accuracy	±0,02 mm
Duty cycle	100 %
PWIS conformity	VDMA24364 zone III
RSBP classification to CD-0033	F1a
Cleanroom class	ISO class 8
Protection class	IP20
Ambient temperature	0 50 °C
Permanent feed force	1,575 N
Area moment of inertia 2nd degree ly	1,411E+03 mm4
Area moment of inertia 2nd degree Iz	15,257E+03 mm4
No-load torque at maximum travel speed	0.4 Nm
No-load torque at minimum travel speed	0.2 Nm
Max. force Fy	9,550 N
Max. force Fz	11,370 N
Fy with theoretical service life of 100 km (from a guide perspective only)	35,183 N
Fz with theoretical service life of 100 km (from a guide perspective only)	41,887 N
Max. torque Mx	600 Nm
Max. torque My	560 Nm
Max. torque Mz	560 Nm
Mx with theoretical service life of 100 km (from a guide perspective only	2,210 Nm
My with theoretical service life of 100 km (from a guide perspective only)	2,063 Nm
Mz with theoretical service life of 100 km (from a guide perspective only)	2,063 Nm
Max. radial force at drive shaft	340 N
Max. feed force Fx	1,575 N
Torsional mass moment of inertia It	726E+03 mm4
Mass moment of inertia JH per meter of stroke	809 kgcm2
Mass moment of inertia JL per kg of working load	0.0253 kgcm2
Mass moment of inertia, JO	0.3175 kgcm2



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Feature	Value	
Feed constant	10 mm/U	
Moving mass	3,855 g	
Product weight	20,817 g	
Basic weight for 0 mm stroke	9,564 g	
Additional weight per 10 mm stroke	188 g	
Dynamic deflection (load moved)	0.05% of the axis length, max. 0.5 mm	
Static deflection (load at standstill)	0.1% of the axis length	
Interface code, actuator	T46	
Material of end caps	Die-cast aluminium, painted	
Material of profile	Anodised wrought aluminium alloy	
Materials note	Conforms to RoHS	
Material drive cover	Die-cast aluminium, painted	
Material guide slide	Steel	
Material guide rail	Steel	
Material slide	Anodised wrought aluminium alloy	
Material spindle nut	Steel	
Material spindle	Steel	