Spindle axis ELGT-BS-120-450-10P Part number: 8124454







Data sheet

alue	Feature
50 mm	Working stroke
20	Size
mm	Stroke reserve
= 0.15 µm	Reversing backlash
6 mm	Spindle diameter
0 mm/U	Spindle pitch
ny	Assembly position
ecirculating ball bearing guide	Guide
lectromechanical linear axis	Design structure
vith recirculating ball bearing spindle	
tepper motor	Motor type
ervomotor	
all screw actuator	Spindle type
ecommended for production facilities for the manufacture of lithium-	Variants
on batteries	
5 m/s2	Max. acceleration
,000 1/min	Max. speed
.5 m/s	
0,02 mm	Repetition accuracy
00 %	Duty cycle
DMA24364 zone III	PWIS conformity
1a	RSBP classification to CD-0033
60 class 8	Cleanroom class
220	Protection class
50 °C	Ambient temperature
,265 N	Permanent feed force
66E+03 mm4	Area moment of inertia 2nd degree ly
,011E+03 mm4	· · · · · · · · · · · · · · · · · · ·
.3 Nm	
.08 Nm	
,800 N	
•	Max. force Fz
	Fy with theoretical service life of 100 km (from a guide perspective only)
00 Nm	
10 Nm	
10 Nm	
,105 Nm	·
,142 Nm	
,142 Nm	
90 N	Max. radial force at drive shaft
	Max. feed force Fx
	Torsional mass moment of inertia It
,011E+03 mm4 .3 Nm .08 Nm ,800 N ,090 N 5,051 N 9,804 N 00 Nm 10 Nm 10 Nm ,105 Nm ,142 Nm	Area moment of inertia 2nd degree Iz No-load torque at maximum travel speed No-load torque at minimum travel speed Max. force Fy Max. force Fz Fy with theoretical service life of 100 km (from a guide perspective only) Fz with theoretical service life of 100 km (from a guide perspective only) Max. torque Mx Max. torque My Max. torque Mz Mx with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) Mz with theoretical service life of 100 km (from a guide perspective only) Mz with theoretical service life of 100 km (from a guide perspective only) Max. radial force at drive shaft Max. feed force Fx



Feature	Value	
Feed constant	10 mm/U	
Moving mass	2,019 g	
Product weight	10,831 g	
Basic weight for 0 mm stroke	5,259 g	
Additional weight per 10 mm stroke	124 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	