spindle axis ELGT-BS-120-900-20P Part number: 8124507







Data sheet

Feature	Value
Working stroke	900 mm
Size	120
Stroke reserve	0 mm
Reversing backlash	<= 0.15 μm
Spindle diameter	15 mm
Spindle pitch	20 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 spindle
Variants	Recommended for production facilities for the manufacture of lithium-
	ion batteries
Max. acceleration	15 m/s2
Max. speed	3,000 1/min
	1 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	805 N
Area moment of inertia 2nd degree ly	966E+03 mm4
Area moment of inertia 2nd degree Iz	6,011E+03 mm4
No-load torque at maximum travel speed	0.3 Nm
No-load torque at minimum travel speed	0.08 Nm
Max. force Fy	6,800 N
Max. force Fz	8,090 N
Fy with theoretical service life of 100 km (from a guide perspective only)	25,051 N
Fz with theoretical service life of 100 km (from a guide perspective only)	29,804 N
Max. torque Mx	300 Nm
Max. torque My	310 Nm
Max. torque Mz	310 Nm
Mx with theoretical service life of 100 km (from a guide perspective only	1,105 Nm
My with theoretical service life of 100 km (from a guide perspective only)	1,142 Nm
Mz with theoretical service life of 100 km (from a guide perspective only)	1,142 Nm
Max. radial force at drive shaft	290 N
Max. feed force Fx	805 N
Torsional mass moment of inertia It	506E+03 mm4
Mass moment of inertia IH per metre of stroke	0.2522 kgcm2
Mass moment of inertia JL per kg of working load	0.1013 kgcm2
Mass moment of inertia, JO	0.2654 kgcm2
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Feature	Value	
Feed constant	20 mm/U	
Moving mass	2,036 g	
Product weight	15,598 g	
Basic weight for 0 mm stroke	5,235 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	