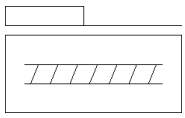
Spindle axis
ELGT-BS-120-700-10P

Part number: 8124459

FESTO



Data sheet

Feature	Value
Working stroke	700 mm
Size	120
Stroke reserve	0 mm
Reversing backlash	<= 0.15 µm
Spindle diameter	16 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	1,265 N
Area moment of inertia 2nd degree Iy	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	1,265 N
Torsional mass moment of inertia It	506E+03 mm4
Mass moment of inertia JH per meter of stroke	0.3453 kgcm2
Mass moment of inertia JL per kg of working load	0.0253 kgcm2
Mass moment of inertia, JO	0.1306 kgcm2

Feature	Value
Feed constant	10 mm/U
Moving mass	2,019 g
Product weight	13,927 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