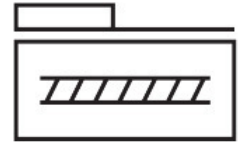


Ball screw axis ELGT-BS-120-350-10P

Part number: 8124452

FESTO



Data sheet

Feature	Value
Working stroke	350 mm
Size	120
Stroke reserve	0 mm
Reversing backlash theoretical	150 µm
Spindle diameter	16 mm
Spindle pitch	10 mm/U
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
Variants	Metals with copper, zinc or nickel by mass as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils.
Max. acceleration	15 m/s ²
Max. rotational speed	3000 rpm
Max. speed	0.5 m/s
Repetition accuracy	±0.02 mm
Duty cycle	100%
LABS (PWIS) conformity	VDMA24364 zone III
Suitability for the production of Li-ion batteries	Product corresponds to the internal product definition from Festo for use in battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils
Cleanroom class	Class 8 according to ISO 14644-1
Degree of protection	IP20
Ambient temperature	0 °C...50 °C
Continuous feed force	1265 N
2nd moment of area Iy	966000 mm ⁴
2nd moment of area Iz	6011000 mm ⁴

Feature	Value
Idle torque at v _{max}	0.3 Nm
Idle torque at v _{min}	0.08 Nm
Max. force F _y	6800 N
Max. force F _z	8090 N
F _y at theoretical life value of 100 km (only guide consideration)	25051 N
F _z at theoretical life value of 100 km (only guide consideration)	29804 N
Max. moment M _x	300 Nm
Max. moment M _y	310 Nm
Max. moment M _z	310 Nm
M _x at theoretical life value of 100 km (only guide consideration)	1105 Nm
M _y at theoretical life value of 100 km (only guide consideration)	1142 Nm
M _z at theoretical life value of 100 km (only guide consideration)	1142 Nm
Max. radial force at drive shaft	290 N
Max. feed force F _x	1265 N
Torsional mass moment of inertia I _t	506000 mm ⁴
Mass moment of inertia J _H per metre of stroke	0.3453 kgcm ²
Mass moment of inertia J _L per kg of working load	0.0253 kgcm ²
Mass moment of inertia J _O	0.1306 kgcm ²
Feed constant	10 mm/U
Moving mass	2019 g
Product weight	9593 g
Basic weight for 0 mm stroke	5259 g
Additional weight per 10 mm stroke	124 g
Dynamic deflection (moving load)	0.05% of the axis length, max. 0.5 mm
Static deflection (load in standstill)	0.1% of the axis length
Interface code, actuator	T46
Material end cap	Painted die cast aluminium
Material profile	Anodised wrought aluminium alloy
Note on materials	RoHS-compliant
Material drive cover	Painted die cast aluminium
Material guide slide	Steel
Material guide rail	Steel
Material slide	Anodised wrought aluminium alloy
Material spindle nut	Steel
Material spindle	Steel