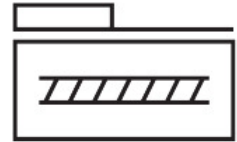


Ball screw axis ELGT-BS-160-750-10P

Part number: 8124522

FESTO



[PDF](#) General operating condition

Data sheet

Feature	Value
Working stroke	750 mm
Size	160
Stroke reserve	0 mm
Reversing backlash theoretical	$\leq 150 \mu\text{m}$
Spindle diameter	20 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
Symbol	00991211
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	$\pm 0.02 \text{ mm}$
Duty cycle	100%
LABS (PWIS) conformity	VDMA24364 zone III
Suitability for the production of Li-ion batteries	Suitable for battery production according to the Festo internal definition of the degree of severity F1A with restrictions regarding the use of Cu/Zn/Ni
Cleanroom class	Class 8 according to ISO 14644-1
Degree of protection	IP20
Ambient temperature	0 °C ... 50 °C
Continuous feed force	1575 N
2nd moment of area Iy	1411000 mm ⁴
2nd moment of area Iz	1.5257E7 mm ⁴
Idle torque at vmax	0.4 Nm
Idle torque at vmin	0.2 Nm
Max. force Fy	9550 N
Max. force Fz	11370 N

Feature	Value
Fy at theoretical life value of 100 km (only guide consideration)	35183 N
Fz at theoretical life value of 100 km (only guide consideration)	41887 N
Max. moment Mx	600 Nm
Max. moment My	560 Nm
Max. moment Mz	560 Nm
Mx at theoretical life value of 100 km (only guide consideration)	2210 Nm
My at theoretical life value of 100 km (only guide consideration)	2063 Nm
Mz at theoretical life value of 100 km (only guide consideration)	2063 Nm
Max. radial force at drive shaft	340 N
Max. feed force Fx	1575 N
Torsional mass moment of inertia It	726000 mm ⁴
Mass moment of inertia JH per metre of stroke	0.809 kgcm ²
Mass moment of inertia JL per kg of working load	0.0253 kgcm ²
Mass moment of inertia JO	0.3175 kgcm ²
Feed constant	10 mm/U
Moving mass	3855 g
Product weight	23630 g
Basic weight for 0 mm stroke	9564 g
Additional weight per 10 mm stroke	188 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