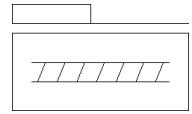


spindle axis ELGT-BS-160-900-10P

Part number: 8124524

FESTO



Data sheet

Feature	Value
Working stroke	900 mm
Size	160
Stroke reserve	0 mm
Reversing backlash	$\leq 0.15 \mu\text{m}$
Spindle diameter	20 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 spindle
Variants	Recommended for production facilities for the manufacture of lithium-ion batteries
Max. acceleration	15 m/s ²
Max. speed	3,000 1/min 0.5 m/s
Repetition accuracy	$\pm 0.02 \text{ mm}$
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	1,575 N
Area moment of inertia 2nd degree Iy	1,411E+03 mm ⁴
Area moment of inertia 2nd degree Iz	15,257E+03 mm ⁴
No-load torque at maximum travel speed	0.4 Nm
No-load torque at minimum travel speed	0.2 Nm
Max. force Fy	9,550 N
Max. force Fz	11,370 N
Fy with theoretical service life of 100 km (from a guide perspective only)	35,183 N
Fz with theoretical service life of 100 km (from a guide perspective only)	41,887 N
Max. torque Mx	600 Nm
Max. torque My	560 Nm
Max. torque Mz	560 Nm
Mx with theoretical service life of 100 km (from a guide perspective only)	2,210 Nm
My with theoretical service life of 100 km (from a guide perspective only)	2,063 Nm
Mz with theoretical service life of 100 km (from a guide perspective only)	2,063 Nm
Max. radial force at drive shaft	340 N
Max. feed force Fx	1,575 N
Torsional mass moment of inertia It	726E+03 mm ⁴
Mass moment of inertia JH per metre of stroke	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

Feature	Value
Feed constant	10 mm/U
Moving mass	3,855 g
Product weight	26,444 g
Basic weight for 0 mm stroke	9,564 g
Additional weight per 10 mm stroke	188 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