

Spindle axis ELGD-BS-KF-WD-100-200-0H-10P-L

Part number: 8192321

FESTO



Data sheet

Feature	Value
Working stroke	200 mm
Size	100
Stroke reserve	0 mm
Reversing backlash theoretical	0,15 mm
Spindle diameter	10 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 drive
Position detection	Via inductive sensors
Max. acceleration	15 m/s ²
Max. rotational speed	8000 rpm
Max. speed	1.33 m/s
Repetition accuracy	±0.01 mm
Duty cycle	100%
LABS (PWIS) conformity	VDMA24364 zone III
Degree of protection	IP30
Ambient temperature	0 °C...60 °C
Impact energy in end positions	1 mJ
Note on the impact energy in the end positions	At maximum homing speed of 0.01 m/s
2nd moment of area Iy	347100 mm ⁴
2nd moment of area Iz	2268000 mm ⁴
Idle torque at v _{max}	0.083 Nm
Idle torque at v _{min}	0.026 Nm
Max. force F _y	4400 N
Max. force F _z	4400 N
Max. force F _y total axis	3236 N
Max. force F _z total axis	2250 N

Feature	Value
Fy at theoretical life value of 100 km (only guide consideration)	18415 N
Fz at theoretical life value of 100 km (only guide consideration)	18415 N
Max. moment Mx	140 Nm
Max. moment My	230 Nm
Max. moment Mz	220 Nm
Max. moment Mx total axis	160 Nm
Max. moment My total axis	230 Nm
Max. moment Mz total axis	191 Nm
Mx at theoretical life value of 100 km (only guide consideration)	645 Nm
My at theoretical life value of 100 km (only guide consideration)	720 Nm
Mz at theoretical life value of 100 km (only guide consideration)	720 Nm
Distance between slide surface and guide centre	47 mm
Max. radial force at drive shaft	180 N
Max. feed force Fx	1100 N
Torsional mass moment of inertia It	108900 mm ⁴
Mass moment of inertia JH per metre of stroke	0.07554 kgcm ²
Mass moment of inertia JL per kg of working load	0.02533 kgcm ²
Mass moment of inertia JO	0.05632 kgcm ²
Feed constant	10 mm/U
Reference service life	5000 km
Maintenance interval	Life-time lubrication
Moving mass	1185 g
Basic weight for 0 mm stroke	2979 g
Additional weight per 10 mm stroke	59 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	T42
Material end cap	Aluminium gravity die-cast, painted
Material profile	Anodised wrought aluminium alloy
Note on materials	RoHS-compliant
Material cover tape	High-alloy stainless steel
Material drive cover	Aluminium gravity die-cast, painted
Material guide slide	Steel
Material guide rail	Steel
Material slide	Wrought aluminium alloy
Material spindle nut	Steel
Material spindle	Steel