

Spindle axis ELGA-BS-KF-120-600-0H-25P-ML

Part number: 8041848

FESTO



Data sheet

Feature	Value
Working stroke	600 mm
Size	120
Stroke reserve	0 mm
Spindle diameter	25 mm
Spindle pitch	25 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
Functional principle of measuring system	Incremental
Max. acceleration	15 m/s ²
Max. rotational speed	3600 rpm
Max. speed	1.5 m/s
Repetition accuracy	±0.02 mm
LABS (PWIS) conformity	VDMA24364 zone III
Degree of protection	IP40
Ambient temperature	-10 °C...60 °C
2nd moment of area Iy	1240000 mm ⁴
2nd moment of area Iz	3800000 mm ⁴
Idle torque at v _{max}	1.64 Nm
Idle torque at v _{min}	1 Nm
Max. force F _y	5500 N
Max. force F _z	6890 N
F _y at theoretical life value of 100 km (only guide consideration)	20240 N
F _z at theoretical life value of 100 km (only guide consideration)	25355 N
Max. moment M _x	104 Nm
Max. moment M _y	680 Nm
Max. moment M _z	680 Nm
M _x at theoretical life value of 100 km (only guide consideration)	383 Nm

Feature	Value
My at theoretical life value of 100 km (only guide consideration)	2502 Nm
Mz at theoretical life value of 100 km (only guide consideration)	2502 Nm
Max. radial force at drive shaft	500 N
Max. feed force Fx	3400 N
Torsional mass moment of inertia It	247000 mm ⁴
Mass moment of inertia JH per metre of stroke	2.756 kgcm ²
Mass moment of inertia JL per kg of working load	0.1583 kgcm ²
Mass moment of inertia JO	1.038 kgcm ²
Feed constant	25 mm/U
Moving mass	4459 g
Weight of additional slide	3600 g
Additional weight per 10 mm stroke	101 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
Material end cap	Wrought aluminium alloy Anodised
Material profile	Wrought aluminium alloy Anodised
Note on materials	RoHS-compliant
Material drive cover	Wrought aluminium alloy Anodised
Material guide slide	Steel
Material guide rail	Steel
Material slide	Wrought aluminium alloy Anodised
Material spindle nut	Steel
Material spindle	Steel