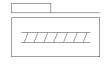
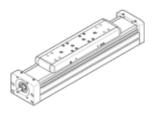
spindle axis ELGA-BS-KF-70-100-0H-10P-ML Part number: 8041816

With recirculating ball bearing guide







Data sheet

Feature	Value
Working stroke	100 mm
Size	70
Stroke reserve	0 mm
Spindle diameter	12 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
Measuring method: displacement encoder	Incremental
Max. acceleration	15 m/s2
Max. speed	3,000 1/min
	0.5 m/s
Repetition accuracy	±0,02 mm
Protection class	IP40
Ambient temperature	-10 60 °C
Area moment of inertia 2nd degree ly	165E+03 mm4
Area moment of inertia 2nd degree Iz	472E+03 mm4
No-load torque at maximum travel speed	0.24 Nm
No-load torque at minimum travel speed	0.17 Nm
Max. force Fy	1,500 N
Max. force Fz	1,850 N
Fy with theoretical service life of 100 km (from a guide perspective only)	5,520 N
Fz with theoretical service life of 100 km (from a guide perspective only)	6,808 N
Max. torque Mx	16 Nm
Max. torque My	132 Nm
Max. torque Mz	132 Nm
Mx with theoretical service life of 100 km (from a guide perspective only	59 Nm
My with theoretical service life of 100 km (from a guide perspective only)	486 Nm
Mz with theoretical service life of 100 km (from a guide perspective only)	486 Nm
Max. radial force at drive shaft	220 N
Max. feed force Fx	650 N
Torsional mass moment of inertia It	28.3E+03 mm4
Mass moment of inertia JH per metre of stroke	0.142 kgcm2
Mass moment of inertia JL per kg of working load	0.0253 kgcm2
Mass moment of inertia, JO	0.038 kgcm2
Feed constant	10 mm/U
Moving mass	804 g
Additional weight per 10 mm stroke	33 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



Feature	Value
Material of end caps	Wrought Aluminium alloy
	Anodised
Material of profile	Wrought Aluminium alloy
	Anodised
Materials note	Contains PWIS substances
	Conforms to RoHS
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