Guide axis
ELFC-KF-60-500

Part number: 8062816





Data sheet

Feature	Value
Working stroke	500 mm
Size	60
Mounting position	Any
Guide	Recirculating ball bearing
Structural design	Guide
Position sensing	Via proximity switch For inductive sensors
Max. acceleration	15 m/s²
Max. speed	1.5 m/s
Duty cycle	100%
Corrosion resistance class (CRC)	0 - No corrosion stress
LABS (PWIS) conformity	VDMA24364 Zone III
Suitability for the production of Li-ion batteries	Suitable for battery production with reduced Cu/Zn/Ni values (F1a)
Cleanroom suitability, measured according to ISO 14644-14	Class 7 according to ISO 14644-1
Degree of protection	IP40
Ambient temperature	0 °C...50 °C
2nd moment of area Iy	441000 mm⁴
2nd moment of area Iz	542000 mm⁴
Max. force Fy	3641 N
Max. force Fz	3641 N
Max. torque Mx	29.1 Nm
Max. torque My	31.8 Nm
Max. torque Mz	31.8 Nm
Max. force Fy total axis	600 N
Max. force Fz total axis	1800 N
Max. moment Mx total axis	29.1 Nm
Max. moment My total axis	31.8 Nm
Max. moment Mz total axis	31.8 Nm
Torsion moment of inertia It	29800 mm⁴
Displacement force	6.75 N
Reference service life	5000 km
Maintenance interval	Lifetime lubrication

Feature	Value
Fy with theoretical service life of 100 km (from a guide perspective only)	13400 N
Fz with theoretical service life of 100 km (from a guide perspective only)	13400 N
Mx with theoretical service life of 100 km (from a guide perspective only)	107 Nm
My with theoretical service life of 100 km (from a guide perspective only)	117 Nm
Mz with theoretical service life of 100 km (from a guide perspective only)	117 Nm
Moving mass	407 g
Basic weight with 0 mm stroke	1029 g
Additional weight per 10 mm stroke	43 g
Dynamic deflection (load moved)	0.05% of axis length, maximum 0.5 mm
Static deflection (load at standstill)	0.1 % of axis length
Material of end caps	Die cast aluminum, painted
Profile material	Wrought aluminum alloy, anodized
Note on materials	RoHS compliant
Cover strip material	high-alloy stainless steel
Slide carriage material	Steel
Guide rail material	Steel
Slide material	Die-cast aluminum