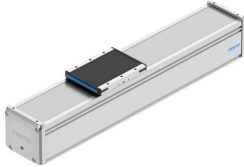


Guide axis ELFD-KF-120- -

Part number: 8182489

FESTO



Data sheet

Feature	Value
Working stroke	50 mm...5000 mm
Size	120
Stroke reserve	5.5 mm
Mounting position	Any
Guide	Recirculating ball bearing guide
Structural design	Guide
Max. acceleration	50 m/s ²
Max. speed	3 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)
Storage temperature	-20 °C...60 °C
Degree of protection	IP40
Ambient temperature	0 °C...60 °C
2nd moment of area Iy	3550000 mm ⁴
2nd moment of area Iz	8985000 mm ⁴
Max. force Fy	4300 N...8400 N
Max. force Fz	4300 N...8400 N
Max. torque Mx	170 Nm...350 Nm
Max. torque My	50 Nm...620 Nm
Max. torque Mz	60 Nm...580 Nm
Max. force Fy total axis	2957 N...5914 N
Max. force Fz total axis	4300 N...8400 N
Max. moment Mx total axis	170 Nm...350 Nm
Max. moment My total axis	42 Nm...501 Nm
Max. moment Mz total axis	42 Nm...501 Nm
Torsion moment of inertia It	1433600 mm ⁴
Displacement force	12.5 N
Reference service life	5000 km
Maintenance interval	Life-time lubrication

Feature	Value
Fy with theoretical service life of 100 km (from a guide perspective only)	17576 N...35153 N
Fz with theoretical service life of 100 km (from a guide perspective only)	17576 N...35153 N
Mx with theoretical service life of 100 km (from a guide perspective only)	730 Nm...1459 Nm
My with theoretical service life of 100 km (from a guide perspective only)	162 Nm...1920 Nm
Mz with theoretical service life of 100 km (from a guide perspective only)	162 Nm...1920 Nm
Moving mass	1369 g...2820 g
Product weight	4553 g...101775 g
Basic weight with 0 mm stroke	3993 g...6575 g
Additional weight per 10 mm stroke	112 g
Material of end caps	Aluminum gravity die-cast, painted
Profile material	Wrought aluminum alloy, anodized
Note on materials	RoHS-compliant
Cover strip material	High-alloy stainless steel
Cover material	Aluminum gravity die-cast, painted
Slide carriage material	Steel
Guide rail material	Steel
Slide material	Wrought aluminum alloy