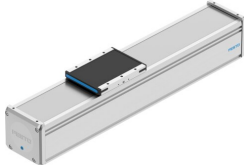


Guide axis ELFD-KF-120- -

Part number: 8182489

FESTO



Data sheet

Feature	Value
Working stroke	50 mm...5000 mm
Size	120
Stroke reserve	5.5 mm
Mounting position	optional
Guide	Recirculating ball bearing guide
Design	Guidance
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. moment Mx	170 Nm...350 Nm
Max. moment My	50 Nm...620 Nm
Max. moment 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
Torsional mass 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 at theoretical life value of 100 km (only guide consideration)	17576 N...35153 N
Fz at theoretical life value of 100 km (only guide consideration)	17576 N...35153 N
Mx at theoretical life value of 100 km (only guide consideration)	730 Nm...1459 Nm
My at theoretical life value of 100 km (only guide consideration)	162 Nm...1920 Nm
Mz at theoretical life value of 100 km (only guide consideration)	162 Nm...1920 Nm
Moving mass	1369 g...2820 g
Product weight	4553 g...101775 g
Basic weight for 0 mm stroke	3993 g...6575 g
Additional weight per 10 mm stroke	112 g
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 cover	Aluminium gravity die-cast, painted
Material guide slide	Steel
Material guide rail	Steel
Material slide	Wrought aluminium alloy