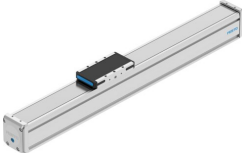


Guide axis ELFD-KF-60- -

Part number: 8182487

FESTO



Data sheet

Feature	Value
Working stroke	50 mm...5000 mm
Size	60
Stroke reserve	4.5 mm
Mounting position	Any
Guide	Recirculating ball bearing
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-C1-L
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 4 according to ISO 14644-1 (with vacuum insert) Class 6 according to ISO 14644-1
Storage temperature	-20 °C...60 °C
Degree of protection	IP40
Ambient temperature	0 °C...60 °C
Impact energy in the end positions	0.000125 J
2nd moment of area Iy	485200 mm ⁴
2nd moment of area Iz	730600 mm ⁴
Max. force Fy	2200 N...4400 N
Max. force Fz	2200 N...4400 N
Max. torque Mx	38 Nm...75 Nm
Max. torque My	42 Nm...390 Nm
Max. torque Mz	15 Nm...140 Nm
Max. force Fy total axis	1945 N...3890 N
Max. force Fz total axis	2000 N...3600 N
Max. moment Mx total axis	41 Nm...85 Nm
Max. moment My total axis	36 Nm...128 Nm
Max. moment Mz total axis	36 Nm...133 Nm
Torsion moment of inertia It	192900 mm ⁴
Displacement force	6 N

Feature	Value
Reference service life	5000 km
Maintenance interval	Lifetime lubrication
Fy with theoretical service life of 100 km (from a guide perspective only)	9208 N...18415 N
Fz with theoretical service life of 100 km (from a guide perspective only)	9208 N...18415 N
Mx with theoretical service life of 100 km (from a guide perspective only)	157 Nm...314 Nm
My with theoretical service life of 100 km (from a guide perspective only)	60 Nm...500 Nm
Mz with theoretical service life of 100 km (from a guide perspective only)	60 Nm...500 Nm
Moving mass	365 g...643 g
Product weight	1506 g...43333 g
Basic weight with 0 mm stroke	1261 g...1683 g
Additional weight per 10 mm stroke	49 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