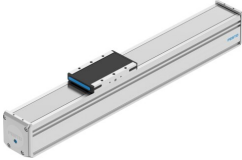


Guide axis ELFD-KF-80- -

Part number: 8182488

FESTO



Data sheet

Feature	Value
Working stroke	50 mm...5000 mm
Size	80
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	0.00025 J
2nd moment of area Iy	1213000 mm ⁴
2nd moment of area Iz	2052000 mm ⁴
Max. force Fy	4200 N...8433 N
Max. force Fz	4200 N...8400 N
Max. torque Mx	106 Nm...200 Nm
Max. torque My	42 Nm...390 Nm
Max. torque Mz	42 Nm...390 Nm
Max. force Fy total axis	2800 N...5500 N
Max. force Fz total axis	3500 N...5600 N
Max. moment Mx total axis	106 Nm...200 Nm
Max. moment My total axis	80 Nm...356 Nm
Max. moment Mz total axis	79 Nm...383 Nm
Torsion moment of inertia It	405000 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)	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)	422 Nm...844 Nm
My with theoretical service life of 100 km (from a guide perspective only)	162 Nm...1356 Nm
Mz with theoretical service life of 100 km (from a guide perspective only)	162 Nm...1356 Nm
Moving mass	912 g...1615 g
Product weight	2725 g...68245 g
Basic weight with 0 mm stroke	2345 g...3645 g
Additional weight per 10 mm stroke	76 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