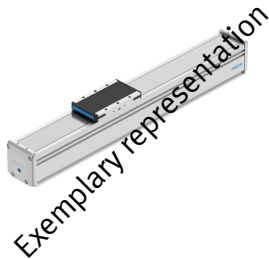


Guide axis ELFD-KF-80- -

Part number: 8182488

FESTO



 General operating condition

Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Working stroke	50 mm ... 5000 mm
Size	80
Stroke reserve	4.5 mm
Mounting position	Any
Guide	Recirculating ball bearing guide
Structural design	Guide
Symbol	00992984
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)
Storage temperature	-20 °C ... 60 °C
Degree of protection	IP40
Ambient temperature	0 °C ... 60 °C
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	136 Nm ... 190 Nm
Max. moment My total axis	95 Nm ... 356 Nm
Max. moment Mz total axis	79 Nm ... 383 Nm
Torsion moment of inertia It	405000 mm ⁴
Displacement force	6 N
Reference service life	5000 km
Maintenance interval	Life-time 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

Feature	Value
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	911 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