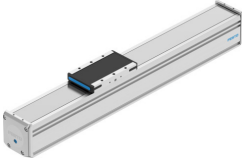


Guide axis ELFD-KF-80- -

Part number: 8182488

FESTO



Data sheet

Feature	Value
Working stroke	50 mm...8500 mm
Size	80
Stroke reserve	4.5 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	Product corresponds to the internal product definition from Festo for use in battery production:Metals with more than 1% by mass of copper, zinc or nickel are excluded from use.The exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils
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. moment Mx	106 Nm...200 Nm
Max. moment My	42 Nm...390 Nm
Max. moment Mz	42 Nm...390 Nm
Max. force Fy total axis	2291 N...4581 N
Max. force Fz total axis	3500 N...5600 N
Max. moment Mx total axis	106 Nm...190 Nm
Max. moment My total axis	42 Nm...356 Nm
Max. moment Mz total axis	42 Nm...294 Nm
Torsional mass moment of inertia It	405000 mm ⁴
Displacement force	6 N

Feature	Value
Reference service life	5000 km
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)	422 Nm...844 Nm
My at theoretical life value of 100 km (only guide consideration)	162 Nm...1356 Nm
Mz at theoretical life value of 100 km (only guide consideration)	162 Nm...1356 Nm
Moving mass	911 g...1615 g
Basic weight for 0 mm stroke	2345 g...3645 g
Additional weight per 10 mm stroke	76 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