

Guide axis ELFA-KF-80- -

Part number: 8037971

FESTO



Data sheet

Feature	Value
Working stroke	50 mm...8500 mm
Size	80
Mounting position	Any
Guide	Recirculating ball bearing
Structural design	Guide
Max. acceleration	50 m/s ²
Max. speed	5 m/s
Duty cycle	100%
Corrosion resistance class (CRC)	0 - No corrosion stress
LABS (PWIS) conformity	VDMA24364 Zone III
Degree of protection	IP40
Ambient temperature	-10 °C...60 °C
2nd moment of area Iy	257180 mm ⁴
2nd moment of area Iz	913660 mm ⁴
Max. force Fy	2500 N
Max. force Fz	3050 N
Max. no-load resistance to shifting	12 N
Max. torque Mx	36 Nm
Max. torque My	228 Nm
Max. torque Mz	228 Nm
Max. force Fy total axis	2500 N
Max. force Fz total axis	3050 N
Max. moment Mx total axis	36 Nm
Max. moment My total axis	228 Nm
Max. moment Mz total axis	228 Nm
Fy with theoretical service life of 100 km (from a guide perspective only)	9200 N
Fz with theoretical service life of 100 km (from a guide perspective only)	11224 N
Mx with theoretical service life of 100 km (from a guide perspective only)	132 Nm
My with theoretical service life of 100 km (from a guide perspective only)	839 Nm

Feature	Value
Mz with theoretical service life of 100 km (from a guide perspective only)	839 Nm
Slide weight	1610 g
Additional slide weight	1610 g
Basic weight with 0 mm stroke	3740 g
Additional weight per 10 mm stroke	49 g
Profile material	Wrought aluminum alloy Anodized
Note on materials	RoHS compliant
Cover strip material	Stainless strip steel
Slide carriage material	High-grade steel
Guide rail material	High-grade steel
Slide material	Wrought aluminum alloy Anodized