

# Guide axis ELFC-KF-45-100

Part number: 8062802

FESTO



## Data sheet

Feature	Value
Working stroke	100 mm
Size	45
Stroke reserve	0 mm
Mounting position	optional
Guide	Recirculating ball bearing guide
Design	Guidance
Max. acceleration	250 m/s <sup>2</sup>
Max. speed	1.5 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	Metals with more than 1% copper, zinc or nickel by mass are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils
Cleanroom class	Class 7 according to ISO 14644-1
Degree of protection	IP40
Ambient temperature	0 °C...50 °C
2nd moment of area ly	140000 mm <sup>4</sup>
2nd moment of area lz	170000 mm <sup>4</sup>
Max. force Fy	300 N
Max. force Fz	600 N
Max. moment Mx	5.5 Nm
Max. moment My	4.7 Nm
Max. moment Mz	4.7 Nm
Torsional mass moment of inertia It	8500 mm <sup>4</sup>
Displacement force	4.5 N
Fy at theoretical life value of 100 km (only guide consideration)	1104 N
Fz at theoretical life value of 100 km (only guide consideration)	2208 N
Mx at theoretical life value of 100 km (only guide consideration)	20 Nm
My at theoretical life value of 100 km (only guide consideration)	17 Nm
Mz at theoretical life value of 100 km (only guide consideration)	17 Nm

<b>Feature</b>	<b>Value</b>
Moving mass	144 g
Additional weight per 10 mm stroke	23 g
Material end cap	Painted die cast aluminium
Material profile	Anodised wrought aluminium alloy
Note on materials	RoHS-compliant
Material cover tape	High-alloy stainless steel
Material cover	Painted die-cast aluminium
Material guide slide	Steel
Material guide rail	Steel
Material slide	Die-cast aluminium