

Cantilever linear actuator ELCC-TB-KF-90-1500-0H-P0-CR

Part number: 8082406

FESTO



[General operating condition](#)

Data sheet

Feature	Value
Drive pinion effective diameter	50.93 mm
Working stroke	1500 mm
Size	90
Stroke reserve	0 mm
Toothed belt pitch	5 mm
Mounting position	Any
Guide	Recirculating ball bearing
Structural design	Electromechanical cantilever axis
Symbol	00991210
Max. acceleration	30 m/s ²
Max. speed	5 m/s
Repetition accuracy	±0.05 mm
Corrosion resistance class (CRC)	0 - No corrosion stress
LABS (PWIS) conformity	VDMA24364 Zone III
Degree of protection	IP20
Ambient temperature	-10 °C ... 60 °C
2nd moment of area I _y	2667900 mm ⁴
2nd moment of area I _z	2049490 mm ⁴
Max. driving torque	33 Nm
Max. force F _y	13957 N
Max. force F _z	13523 N
Max. torque M _x	167 Nm
Max. torque M _y	1300 Nm
Max. torque M _z	1233 Nm
Max. feed force F _x	1200 N
Mass moment of inertia J _H per meter of stroke	62.9 kgcm ²
Mass moment of inertia J _L per kg of payload	6.5 kgcm ²
Mass moment of inertia J _O	55.2 kgcm ²
Feed constant	160 mm/U
Reference service life	5000 km
Lubrication interval, distance dependent	1000 km
Moving mass at 0 mm stroke	5487 g
Additional moving mass per 10 mm stroke	97 g
Basic weight with 0 mm stroke	14787 g
Additional weight per 10 mm stroke	97 g
Material of end caps	Wrought aluminum alloy, anodized

Feature	Value
Profile material	Wrought aluminum alloy, anodized
Note on materials	RoHS compliant
Drive head material	Wrought aluminum alloy, anodized
Guide rail material	Rolled steel, Corrotect coated
Housing material	high-alloy stainless steel
Slide material	Anodized cast aluminum
Toothed belt clamping component material	Wrought aluminum alloy, anodized
Toothed belt material	Polychloroprene with glass cord and nylon coating