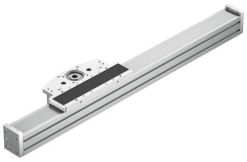
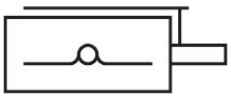
Cantilever linear actuator
ELCC-TB-KF-90-500-0H-P0-CR

Part number: 8082401





Data sheet

Feature	Value
Drive pinion effective diameter	50.93 mm
Working stroke	500 mm
Size	90
Stroke reserve	0 mm
Toothed belt pitch	5 mm
Mounting position	Any
Guide	Recirculating ball bearing
Structural design	Electromechanical cantilever axis
Max. acceleration	30 m/s²
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 Iy	2667900 mm⁴
2nd moment of area Iz	2049490 mm⁴
Max. driving torque	33 Nm
Max. force Fy	13957 N
Max. force Fz	13523 N
Max. torque Mx	167 Nm
Max. torque My	1300 Nm
Max. torque Mz	1233 Nm
Max. feed force Fx	1200 N
Mass moment of inertia JH per meter of stroke	62.9 kgcm²
Mass moment of inertia JL per kg of payload	6.5 kgcm²
Mass moment of inertia JO	55.2 kgcm²
Feed constant	160 mm/U
Reference service life	5000 km
Lubrication interval, distance dependent	1000 km
Moving mass at 0 mm stroke	5487 g

Feature	Value
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
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