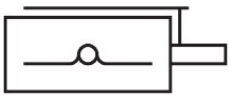
Cantilever linear actuator
ELCC-TB-KF-110-500-0H-P0-CR

Part number: 8082411





Data sheet

Feature	Value
Drive pinion effective diameter	68.755 mm
Working stroke	500 mm
Size	110
Stroke reserve	0 mm
Toothed belt pitch	8 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	6830570 mm⁴
2nd moment of area Iz	4925970 mm⁴
Max. driving torque	90 Nm
Max. force Fy	20596 N
Max. force Fz	20022 N
Max. torque Mx	317 Nm
Max. torque My	2368 Nm
Max. torque Mz	2286 Nm
Max. feed force Fx	2500 N
Mass moment of inertia JH per meter of stroke	174.9 kgcm²
Mass moment of inertia JL per kg of payload	11.8 kgcm²
Mass moment of inertia JO	157.1 kgcm²
Feed constant	216 mm/U
Reference service life	5000 km
Lubrication interval, distance dependent	1000 km
Moving mass at 0 mm stroke	10017 g

Feature	Value
Additional moving mass per 10 mm stroke	148 g
Basic weight with 0 mm stroke	27299 g
Additional weight per 10 mm stroke	148 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