

# cantilever axis

## ELCC-TB-KF-90-500-0H-P0-CR

Part number: 8082401

FESTO



### Data sheet

Feature	Value
Effective diameter of drive pinion	50.93 mm
Working stroke	500 mm
Size	90
Stroke reserve	0 mm
Toothed-belt pitch	5 mm
Assembly position	Any
Guide	Recirculating ball bearing guide
Design structure	Electromechanical Cantilever axis
Max. acceleration	30 m/s <sup>2</sup>
Max. speed	5 m/s
Repetition accuracy	±0,05 mm
Corrosion resistance classification CRC	0 - No corrosion stress
Protection class	IP20
Ambient temperature	-10 ... 60 °C
Area moment of inertia 2nd degree Iy	2,667.9E+03 mm <sup>4</sup>
Area moment of inertia 2nd degree Iz	2,049.49E+03 mm <sup>4</sup>
Max. drive torque	30.6 Nm
Max. force Fy	13,957 N
Max. force Fz	13,523 N
Max. torque Mx	167 Nm
Max. torque My	1,300 Nm
Max. torque Mz	1,233 Nm
Max. feed force Fx	1,200 N
Mass moment of inertia JH per metre of stroke	62.9 kgcm <sup>2</sup>
Mass moment of inertia JL per kg of working load	6.5 kgcm <sup>2</sup>
Mass moment of inertia, JO	55.2 kgcm <sup>2</sup>
Feed constant	160 mm/U
Reference value, running performance	5,019 km
Lubrication interval, distance dependent	1,000 km
Moving mass with 0 mm stroke	5,487 g
Additional weight per 10 mm stroke	97 g
Basic weight for 0 mm stroke	14,787 g
Additional mass factor per 10 mm of stroke	97 g
Material of end caps	Anodised wrought aluminium alloy
Material of profile	Anodised wrought aluminium alloy
Materials note	Contains PWIS substances Conforms to RoHS
Material drive head	Anodised wrought aluminium alloy
Material guide rail	Rolled steel, Corrotect coated
Material housing	High alloy steel, non-corrosive
Material slide	Cast aluminium, anodised
Material toothed belt clamping piece	Anodised wrought aluminium alloy
Material toothed belt	polychloroprene with glass cord and nylon coating