

toothed belt axis ELGR-TB-35-200-0H

Part number: 8083771

FESTO



Data sheet

| Feature | Value |
|--|--|
| Effective diameter of drive pinion | 18.46 mm |
| Working stroke | 200 mm |
| Size | 35 |
| Toothed-belt stretch | 0.094 % |
| Toothed-belt pitch | 2 mm |
| Assembly position | Any |
| Guide | Recirculating ball bearing guide |
| Design structure | Electromechanical linear axis With toothed belt |
| Motor type | Stepper motor Servomotor |
| Max. acceleration | 50 m/s ² |
| Max. speed | 0.9 ... 3 m/s |
| Repetition accuracy | ±0,1 mm |
| Duty cycle | 100 % |
| PWIS conformity | VDMA24364 zone III |
| Protection class | IP20 |
| Ambient temperature | -10 ... 50 °C |
| Area moment of inertia 2nd degree Iy | 3.77E+03 mm ⁴ |
| Area moment of inertia 2nd degree Iz | 4.19E+03 mm ⁴ |
| Max. drive torque | 0.46 Nm |
| Max. force Fy | 50 N |
| Max. force Fz | 50 N |
| Max. idling displacement resistance | 10.8 N |
| Max. feed force Fx | 50 N |
| No-load driving torque | 0.1 Nm |
| Mass moment of inertia JH per metre of stroke | 0.026 kgcm ² |
| Mass moment of inertia JL per kg of working load | 0.85 kgcm ² |
| Feed constant | 58 mm/U |
| Reference value, running performance | 5,000 km |
| Additional mass factor per 10 mm of stroke | 0.31 g |
| Product weight | 1,970 g |
| Additional weight per 10 mm stroke | 25 g |
| Material of profile | Wrought Aluminium alloy Anodised |
| Materials note | Conforms to RoHS |
| Material drive cover | Wrought Aluminium alloy Anodised |
| Material pulleys | High alloy steel, non-corrosive |
| Material slide | Wrought Aluminium alloy Anodised |
| Material toothed belt clamping piece | Beryllium bronze |
| Material toothed belt | polychloroprene with glass cord and nylon coating |