

Toothed belt axis ELGR-TB-45-400-0H

Part number: 8083779

FESTO



Data sheet

| Feature | Value |
|--|--|
| Effective diameter of drive pinion | 24.83 mm |
| Working stroke | 400 mm |
| Size | 45 |
| Toothed-belt stretch | 0.08 % |
| Toothed-belt pitch | 3 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 | 1 ... 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 | 15.7E+03 mm ⁴ |
| Area moment of inertia 2nd degree Iz | 17.94E+03 mm ⁴ |
| Max. drive torque | 1.24 Nm |
| Max. force Fy | 100 N |
| Max. force Fz | 100 N |
| Max. idling displacement resistance | 16.1 N |
| Max. feed force Fx | 100 N |
| No-load driving torque | 0.2 Nm |
| Mass moment of inertia JH per meter of stroke | 0.11 kgcm ² |
| Mass moment of inertia JL per kg of working load | 1.54 kgcm ² |
| Feed constant | 78 mm/U |
| Reference value, running performance | 5,000 km |
| Additional mass factor per 10 mm of stroke | 0.69 g |
| Product weight | 5,230 g |
| Additional weight per 10 mm stroke | 50 g |
| Material of profile | Wrought Aluminum alloy Anodized |
| Materials note | Conforms to RoHS |
| Material drive cover | Wrought Aluminum alloy Anodized |
| Material pulleys | High alloy steel, non-corrosive |
| Material slide | Wrought Aluminum alloy Anodized |
| Material toothed belt clamping piece | Beryllium bronze |
| Material toothed belt | polychloroprene with glass cord and nylon coating |