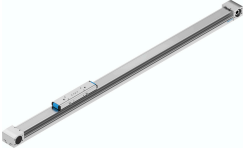


Toothed belt axis ELGA-TB-KF-70-1000-0H

Part number: 8041856

FESTO



Data sheet

| Feature | Value |
|--|--|
| Effective diameter of drive pinion | 28.65 mm |
| Working stroke | 1000 mm |
| Size | 70 |
| Stroke reserve | 0 mm |
| Toothed-belt stretch | 0.213 % |
| Toothed-belt pitch | 3 mm |
| Mounting position | optional |
| Guide | Recirculating ball bearing guide |
| Design | Electromechanical linear axis With toothed belt |
| Type of motor | Stepper motor Servo motor |
| Functional principle of measuring system | Incremental |
| Max. acceleration | 50 m/s ² |
| Max. speed | 5 m/s |
| Repetition accuracy | ±0.08 mm |
| Duty cycle | 100% |
| LABS (PWIS) conformity | VDMA24364 zone III |
| Degree of protection | IP40 |
| Ambient temperature | -10 °C...60 °C |
| 2nd moment of area Iy | 146050 mm ⁴ |
| 2nd moment of area Iz | 459290 mm ⁴ |
| Max. drive torque | 5.02 Nm |
| Max. force Fy | 1500 N |
| Max. force Fz | 1850 N |
| Max. idle running transfer resistance | 41.9 N |
| Max. moment Mx | 16 Nm |
| Max. moment My | 132 Nm |
| Max. moment Mz | 132 Nm |
| Max. feed force Fx | 350 N |
| Frictional torque independent of load | 0.6 Nm |
| Torsional mass moment of inertia It | 103880 mm ⁴ |

| Feature | Value |
|--|---|
| Mass moment of inertia JH per metre of stroke | 0.19 kgcm ² |
| Mass moment of inertia JL per kg of working load | 2.05 kgcm ² |
| Mass moment of inertia JO | 2.43 kgcm ² |
| Mass moment of inertia JW for additional slide | 1.86 kgcm ² |
| Feed constant | 90 mm/U |
| Lubrication interval dependent on operating distance | 1000 km |
| Weight of slide | 0,9 kg |
| Weight of additional slide | 0,74 kg |
| Basic weight for 0 mm stroke | 2,97 kg |
| Additional weight per 10 mm stroke | 0,039 kg |
| Material profile | Wrought aluminium alloy Anodised |
| Note on materials | RoHS-compliant |
| Material cover tape | Stainless steel strip |
| Material drive cover | Wrought aluminium alloy Anodised |
| Material guide slide | Stainless steel |
| Material guide rail | Stainless steel |
| Material pulleys | High-alloy stainless steel |
| Material slide | Wrought aluminium alloy Anodised |
| Material toothed belt clamping piece | Stainless steel casting |
| Material toothed belt | Polychloroprene with glass filament and nylon coating |