

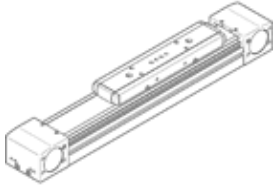
toothed belt axis

ELGA-TB-KF-70-800-0H

Part number: 8041855

FESTO

With recirculating ball bearing guide



Data sheet

| Feature | Value |
|--|--|
| Effective diameter of drive pinion | 28.65 mm |
| Working stroke | 800 mm |
| Size | 70 |
| Stroke reserve | 0 mm |
| Toothed-belt stretch | 0.213 % |
| 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 |
| Measuring method: displacement encoder | Incremental |
| Max. acceleration | 50 m/s ² |
| Max. speed | 5 m/s |
| Repetition accuracy | ±0,08 mm |
| Duty cycle | 100 % |
| Protection class | IP40 |
| Ambient temperature | -10 ... 60 °C |
| Area moment of inertia 2nd degree Iy | 146.05E+03 mm ⁴ |
| Area moment of inertia 2nd degree Iz | 459.29E+03 mm ⁴ |
| Max. drive torque | 5.02 Nm |
| Max. force Fy | 1,500 N |
| Max. force Fz | 1,850 N |
| Max. idling displacement resistance | 41.9 N |
| Max. torque Mx | 16 Nm |
| Max. torque My | 132 Nm |
| Max. torque Mz | 132 Nm |
| Max. feed force Fx | 350 N |
| No-load driving torque | 0.6 Nm |
| Torsional mass moment of inertia It | 103.88E+03 mm ⁴ |
| 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, distance dependent | 1,000 km |
| Slide weight | 0.9 kg |
| Additional slide weight | 0.74 kg |
| Additional weight per 10 mm stroke | 0.039 kg |
| Basic weight for 0 mm stroke | 2.97 kg |
| Material of profile | Wrought Aluminium alloy Anodised |
| Materials note | Contains PWIS substances |

| Feature | Value |
|--------------------------------------|---|
| | Conforms to RoHS |
| 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 steel, non-corrosive |
| Material slide | Wrought Aluminium alloy Anodised |
| Material toothed belt clamping piece | Stainless steel casting |
| Material toothed belt | polychloroprene with glass cord and nylon coating |