

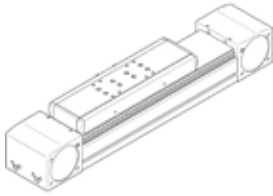
toothed belt axis

ELGA-TB-KF-120-400-0H

Part number: 8041864

FESTO

With recirculating ball bearing guide



Data sheet

| Feature | Value |
|--|--|
| Effective diameter of drive pinion | 52.52 mm |
| Working stroke | 400 mm |
| Size | 120 |
| Stroke reserve | 0 mm |
| Toothed-belt stretch | 0.21 % |
| Toothed-belt pitch | 5 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 % |
| PWIS conformity | VDMA24364 zone III |
| Protection class | IP40 |
| Ambient temperature | -10 ... 60 °C |
| Area moment of inertia 2nd degree Iy | 1,264.58E+03 mm ⁴ |
| Area moment of inertia 2nd degree Iz | 4,365.79E+03 mm ⁴ |
| Max. drive torque | 34.1 Nm |
| Max. force Fy | 5,500 N |
| Max. force Fz | 6,890 N |
| Max. idling displacement resistance | 76.2 N |
| Max. torque Mx | 104 Nm |
| Max. torque My | 680 Nm |
| Max. torque Mz | 680 Nm |
| Max. feed force Fx | 1,300 N |
| No-load driving torque | 2.8 Nm |
| Torsional mass moment of inertia It | 435.68E+03 mm ⁴ |
| Mass moment of inertia JH per metre of stroke | 2.15 kgcm ² |
| Mass moment of inertia JL per kg of working load | 6.9 kgcm ² |
| Mass moment of inertia, JO | 40.99 kgcm ² |
| Mass moment of inertia JW for additional slide | 28.91 kgcm ² |
| Feed constant | 165 mm/U |
| Lubrication interval, distance dependent | 1,000 km |
| Slide weight | 4.19 kg |
| Additional slide weight | 3.24 kg |
| Basic weight for 0 mm stroke | 15.68 kg |
| Additional weight per 10 mm stroke | 0.106 kg |
| Material of profile | Wrought Aluminium alloy Anodised |

| Feature | Value |
|--------------------------------------|---|
| Materials note | Conforms to RoHS |
| Material cover tape | Stainless steel strip |
| Material drive cover | Wrought Aluminium alloy Anodised |
| Material guide slide | Heat-treatment steel |
| Material guide rail | Heat-treatment steel corrotec coated |
| 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 |