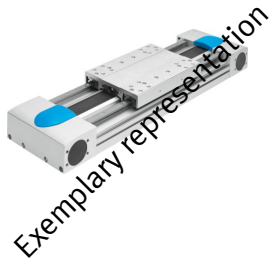


Toothed belt axis EGC-HD-160- -TB

Part number: 556824

FESTO



 [General operating condition](#)

Data sheet

Overall data sheet – Individual values depend upon your configuration.

| Feature | Value |
|-------------------------------------------------------------------|----------------------------------------------------|
| Effective diameter of drive pinion | 39.79 mm |
| Working stroke | 50 mm ... 5000 mm |
| Size | 160 |
| Toothed-belt stretch | 0.23 % |
| Toothed-belt pitch | 5 mm |
| Mounting position | Any |
| Guide | Recirculating ball bearing guide |
| Design | Electromechanical linear axis With toothed belt |
| Type of motor | Stepper motor Servo motor |
| Symbol | 00991212 |
| Functional principle of measuring system | Incremental |
| Max. acceleration | 50 m/s ² |
| Max. speed | 5 m/s |
| Duty cycle | 100% |
| LABS (PWIS) conformity | VDMA24364 zone III |
| Degree of protection | IP40 |
| Ambient temperature | -10 °C ... 60 °C |
| 2nd moment of area Iy | 1.29E8 mm ⁴ |
| 2nd moment of area Iz | 9.89E8 mm ⁴ |
| Max. drive torque | 20 Nm |
| Max. force Fy | 5600 N |
| Max. force Fz | 5600 N |
| Max. force Fy total axis | 5600 N |
| Max. force Fz total axis | 5600 N |
| Fy at theoretical life value of 100 km (only guide consideration) | 20630 N |
| Fz at theoretical life value of 100 km (only guide consideration) | 20630 N |
| Max. idle running transfer resistance | 105.5 N |
| Max. moment Mx | 300 Nm |
| Max. moment My | 500 Nm |
| Max. moment Mz | 500 Nm |
| Max. moment Mx total axis | 300 Nm |
| Max. moment My total axis | 500 Nm |
| Max. moment Mz total axis | 500 Nm |

| Feature | Value |
|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Mx at theoretical life value of 100 km (only guide consideration) | 1105 Nm |
| My at theoretical life value of 100 km (only guide consideration) | 1842 Nm |
| Mz at theoretical life value of 100 km (only guide consideration) | 1842 Nm |
| Max. feed force Fx | 1000 N |
| Frictional torque independent of load | 2.1 Nm |
| Torsional mass moment of inertia It | 1.04E8 mm ⁴ |
| Mass moment of inertia JH per metre of stroke | 1.267 kgcm ² |
| Mass moment of inertia JL per kg of working load | 3.96 kgcm ² |
| Mass moment of inertia JO | 14.49 kgcm ² |
| Mass moment of inertia JW for additional slide | 11.734 kgcm ² |
| Feed constant | 125 mm/U |
| Reference service life | 5000 km |
| Weight of slide | 2571 g |
| Weight of additional slide | 2022 g |
| Basic weight for 0 mm stroke | 9050 g |
| Additional weight per 10 mm stroke | 107 g |
| Material profile | Anodised wrought aluminium alloy |
| Note on materials | RoHS compliant |
| Material drive cover | Anodised wrought aluminium alloy |
| Material pulleys | High-alloy stainless steel |
| Material slide | Anodised wrought aluminium alloy |
| Material toothed belt clamping piece | Beryllium copper |
| Material toothed belt | Polychloroprene with glass filament and nylon coating Polyurethane with steel cord and nylon cover |