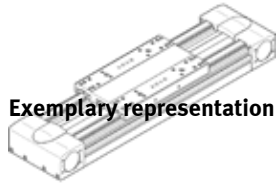
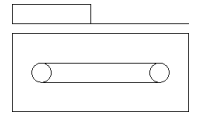


# toothed belt axis EGC-HD-160- -TB

Part number: 556824

FESTO

With recirculating ball bearing guide - heavy-duty guide



Exemplary representation

## Data sheet

Overall data sheet – Individual values depend upon your configuration.

| Feature  | Value  |
|--|--|
| Effective diameter of drive pinion               | 39.79 mm   |
| Working stroke                                   | 50 ... 5,000 mm                                    |
| Size   | 160  |
| Toothed-belt stretch                             | 0.23 %   |
| Toothed-belt pitch                               | 5 mm   |
| Assembly position                                | Any  |
| Guide  | Recirculating ball bearing guide                   |
| Design structure                                 | Electromechanical linear axis<br>With toothed belt |
| Motor type                                       | Stepper motor<br>Servomotor                        |
| Max. acceleration                                | 50 m/s <sup>2</sup>                                |
| Max. speed                                       | 5 m/s  |
| Duty cycle                                       | 100 %  |
| PWIS conformity                                  | VDMA24364 zone III                                 |
| Protection class                                 | IP40   |
| Ambient temperature                              | -10 ... 60 °C                                      |
| Area moment of inertia 2nd degree Iy             | 1,290E+03 mm <sup>4</sup>                          |
| Area moment of inertia 2nd degree Iz             | 98,900E+03 mm <sup>4</sup>                         |
| Max. drive torque                                | 20 Nm  |
| Max. force Fy                                    | 5,600 N  |
| Max. force Fz                                    | 5,600 N  |
| Max. idling displacement resistance              | 105.5 N  |
| Max. torque Mx                                   | 300 Nm   |
| Max. torque My                                   | 500 Nm   |
| Max. torque Mz                                   | 500 Nm   |
| Max. feed force Fx                               | 1,000 N  |
| No-load driving torque                           | 2.1 Nm   |
| Torsional mass moment of inertia It              | 1,040E+03 mm <sup>4</sup>                          |
| Mass moment of inertia JH per metre of stroke    | 1.267 kgcm <sup>2</sup>                            |
| Mass moment of inertia JL per kg of working load | 3.96 kgcm <sup>2</sup>                             |
| Mass moment of inertia, JO                       | 14.49 kgcm <sup>2</sup>                            |
| Mass moment of inertia JW for additional slide   | 11.734 kgcm <sup>2</sup>                           |
| Feed constant                                    | 125 mm/U   |
| Reference value, running performance             | 5,000 km   |
| Slide weight                                     | 2,571 g  |
| Additional slide weight                          | 2,022 g  |
| Basic weight for 0 mm stroke                     | 9,050 g  |
| Additional weight per 10 mm stroke               | 107 g  |
| Material of profile                              | Anodised wrought aluminium alloy                   |
| Materials note                                   | Conforms to RoHS                                   |
| Material drive cover                             | Anodised wrought aluminium alloy                   |

| Feature                              | Value  |
|--------------------------------------|--|
| Material pulleys                     | High alloy steel, non-corrosive  |
| Material slide                       | Anodised wrought aluminium alloy   |
| Material toothed belt clamping piece | Beryllium bronze   |
| Material toothed belt                | polychloroprene with glass cord and nylon coating<br>Polyurethane with steel cord and nylon covering |