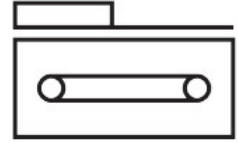


# Toothed belt axis EGC-80-400-TB-KF-0H-GK

Part number: 575832

FESTO



## Data sheet

| Feature                                                           | Value                                              |
|-------------------------------------------------------------------|----------------------------------------------------|
| Effective diameter of drive pinion                                | 28.65 mm                                           |
| Working stroke                                                    | 400 mm                                             |
| Size                                                              | 80                                                 |
| Stroke reserve                                                    | 0 mm                                               |
| Toothed-belt pitch                                                | 3 mm                                               |
| Mounting position                                                 | optional                                           |
| Guide                                                             | Recirculating ball bearing guide                   |
| Design                                                            | Electromechanical linear axis<br>With toothed belt |
| Type of motor                                                     | Stepper motor<br>Servo motor                       |
| Max. acceleration                                                 | 50 m/s <sup>2</sup>                                |
| 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                                             | 844000 mm <sup>4</sup>                             |
| 2nd moment of area Iz                                             | 1160000 mm <sup>4</sup>                            |
| Max. force Fy                                                     | 3050 N                                             |
| Max. force Fz                                                     | 3050 N                                             |
| Max. force Fy total axis                                          | 3050 N                                             |
| Max. force Fz total axis                                          | 3050 N                                             |
| Fy at theoretical life value of 100 km (only guide consideration) | 11236 N                                            |
| Fz at theoretical life value of 100 km (only guide consideration) | 11236 N                                            |
| Max. idle running transfer resistance                             | 28 N                                               |
| Max. moment Mx                                                    | 36 Nm                                              |
| Max. moment My                                                    | 97 Nm                                              |
| Max. moment Mz                                                    | 97 Nm                                              |
| Max. moment Mx total axis                                         | 36 Nm                                              |
| Max. moment My total axis                                         | 97 Nm                                              |

| Feature                                                           | Value                                                                       |
|-------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Max. moment Mz total axis                                         | 97 Nm                                                                       |
| Mx at theoretical life value of 100 km (only guide consideration) | 133 Nm                                                                      |
| My at theoretical life value of 100 km (only guide consideration) | 357 Nm                                                                      |
| Mz at theoretical life value of 100 km (only guide consideration) | 357 Nm                                                                      |
| Max. feed force Fx                                                | 350 N                                                                       |
| Torsional mass moment of inertia It                               | 551000 mm <sup>4</sup>                                                      |
| Mass moment of inertia JH per metre of stroke                     | 0.19 kgcm <sup>2</sup>                                                      |
| Mass moment of inertia JL per kg of working load                  | 2.05 kgcm <sup>2</sup>                                                      |
| Feed constant                                                     | 90 mm/U                                                                     |
| Reference service life                                            | 5000 km                                                                     |
| Material end cap                                                  | Wrought aluminium alloy<br>Anodised                                         |
| Material profile                                                  | Wrought aluminium alloy<br>Anodised                                         |
| Note on materials                                                 | RoHS-compliant                                                              |
| Material drive cover                                              | Wrought aluminium alloy<br>Anodised                                         |
| Material guide slide                                              | Steel                                                                       |
| Material guide rail                                               | Steel                                                                       |
| Material pulleys                                                  | High-alloy stainless steel                                                  |
| Material slide                                                    | Wrought aluminium alloy<br>Anodised                                         |
| Material toothed belt clamping piece                              | Stainless steel casting                                                     |
| Material toothed belt                                             | Polychloroprene oder Nitrilkautschuk (NBR) mit Glascord und<br>Nylonüberzug |