

# Toothed belt axis

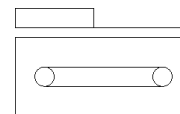
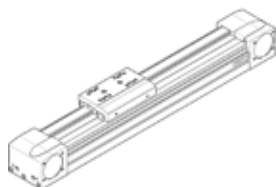
## EGC-80-800-TB-KF-0H-GK

Part number: 3013356

★ Core product range

With recirculating ball bearing guide

FESTO



## Data sheet

| Feature  | Value  |
|--|--|
| Effective diameter of drive pinion               | 28.65 mm   |
| Working stroke                                   | 800 mm   |
| Size   | 80   |
| Stroke reserve                                   | 0 mm   |
| Toothed-belt stretch                             | 0.24 %   |
| Toothed-belt pitch                               | 3 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  |
| 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 Ix             | 844E+03 mm <sup>4</sup>                            |
| Area moment of inertia 2nd degree Iy             | 1,160E+03 mm <sup>4</sup>                          |
| Max. force Fy                                    | 3,050 N  |
| Max. force Fz                                    | 3,050 N  |
| Max. idling displacement resistance              | 28 N   |
| Max. torque Mx                                   | 36 Nm  |
| Max. feed force Fx                               | 350 N  |
| Torsional mass moment of inertia It              | 551E+03 mm <sup>4</sup>                            |
| Mass moment of inertia JH per meter 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  |
| Material of end caps                             | Wrought Aluminum alloy<br>Anodized                 |
| Material of profile                              | Wrought Aluminum alloy<br>Anodized                 |
| Materials note                                   | Conforms to RoHS                                   |
| Material drive cover                             | Wrought Aluminum alloy<br>Anodized                 |
| Material guide slide                             | Steel  |
| Material guide rail                              | Steel  |
| Material pulleys                                 | High alloy steel, non-corrosive                    |
| Material slide                                   | Wrought Aluminum alloy<br>Anodized                 |
| Material toothed belt clamping piece             | Stainless steel casting                            |
| Material toothed belt                            | polychloroprene with glass cord and nylon coating  |