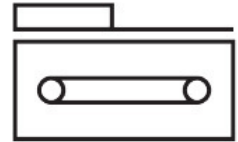


# Toothed belt axis ELGA-TB-RF-80-

Part number: 1371246

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 ... 7000 mm                                                                                                                                         |
| Size                                     | 80                                                                                                                                                        |
| Toothed-belt pitch                       | 5 mm                                                                                                                                                      |
| Mounting position                        | optional                                                                                                                                                  |
| Guide                                    | Roller bearing guide                                                                                                                                      |
| Design                                   | Electromechanical linear axis<br>With toothed belt                                                                                                        |
| Type of motor                            | Servo motor                                                                                                                                               |
| Symbol                                   | 00991212                                                                                                                                                  |
| Functional principle of measuring system | Incremental                                                                                                                                               |
| Max. acceleration                        | 50 m/s <sup>2</sup>                                                                                                                                       |
| Max. speed                               | 10 m/s                                                                                                                                                    |
| Repetition accuracy                      | ±0.08 mm                                                                                                                                                  |
| Duty cycle                               | 100%                                                                                                                                                      |
| LABS (PWIS) conformity                   | VDMA24364 zone III                                                                                                                                        |
| Suitable for use with food               | See supplementary material information                                                                                                                    |
| Degree of protection                     | IP40                                                                                                                                                      |
| Ambient temperature                      | -30 °C ... 60 °C                                                                                                                                          |
| Feed constant                            | 125 mm/U                                                                                                                                                  |
| Dynamic deflection (moving load)         | 0.05% of the axis length, max. 0.5 mm                                                                                                                     |
| Static deflection (load in standstill)   | 0.1% of the axis length                                                                                                                                   |
| Material profile                         | Anodised wrought aluminium alloy                                                                                                                          |
| Note on materials                        | RoHS-compliant                                                                                                                                            |
| Material cover tape                      | Stainless steel strip                                                                                                                                     |
| Material drive cover                     | Anodised wrought aluminium alloy                                                                                                                          |
| Material guide                           | Steel                                                                                                                                                     |
| Material pulleys                         | High-alloy stainless steel                                                                                                                                |
| Material slide                           | Anodised wrought aluminium alloy                                                                                                                          |
| Material toothed belt clamping piece     | Stainless steel casting                                                                                                                                   |
| Material toothed belt                    | Polyurethane with steel cord and nylon cover<br>Polyurethane with steel cord<br>Polychloroprene or nitrile rubber (NBR) with glass cord and nylon coating |