

# Belt driven linear actuator ELGA-TB-RF-80-

Part number: 1371246

**FESTO**



## Data sheet

| Feature                                     | Value   |
|---|---|
| Drive pinion effective diameter             | 39.79 mm  |
| Working stroke                              | 50 mm...7000 mm                                 |
| Size  | 80  |
| Toothed belt pitch                          | 5 mm  |
| Mounting position                           | Any   |
| Guide                                       | Roller guide                                    |
| Structural design                           | Electromechanical linear axis with toothed belt |
| Motor type                                  | Servo motor                                     |
| Measuring principle of linear potentiometer | 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                              |
| For use in the food industry                | See supplementary material information          |
| Degree of protection                        | IP40  |
| Ambient temperature                         | -10 °C...60 °C                                  |
| Feed constant                               | 125 mm/U  |
| Dynamic deflection (load moved)             | 0.05% of axis length, maximum 0.5 mm            |
| Static deflection (load at standstill)      | 0.1 % of axis length                            |
| Profile material                            | Wrought aluminum alloy, anodized                |
| Note on materials                           | RoHS-compliant                                  |
| Cover strip material                        | Stainless steel strip                           |
| Drive cover material                        | Wrought aluminum alloy, anodized                |
| Guide material                              | Steel   |
| Belt pulley material                        | High-alloy stainless steel                      |
| Slide material                              | Wrought aluminum alloy, anodized                |
| Toothed belt clamping component material    | Cast stainless steel                            |

| Feature               | Value  |
|-----------------------|--|
| Toothed belt material | Polyurethane with steel cord and nylon cover<br>Polyurethane with steel cord<br>Polychloroprene oder Nitrilkautschuk (NBR) mit Glascord und Nylonüberzug |