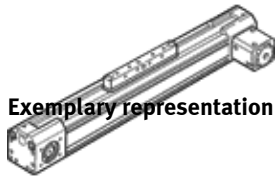
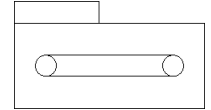


# toothed belt axis DGE-18- -ZR

Part number: 193741  
Product to be discontinued

FESTO

Electromechanical linear axis with toothed belt.  
Type to be discontinued. Available until 2021. See Support Portal for alternative products.



Exemplary representation

## Data sheet

Overall data sheet – Individual values depend upon your configuration.

| Feature  | Value  |
|--|--|
| Effective diameter of drive pinion                           | 16.55 mm   |
| Working stroke   | 1 ... 1,000 mm                                       |
| Size   | 18   |
| Stroke reserve   | 46.5 mm  |
| Toothed-belt stretch   | 0.2 %  |
| Toothed-belt pitch   | 2 mm   |
| Guide  | Recirculating ball bearing guide<br>Heavy-duty guide |
| Design structure   | Electromechanical linear axis<br>With toothed belt   |
| Motor type   | Stepper motor<br>Servomotor                          |
| Max. acceleration  | 20 m/s <sup>2</sup>                                  |
| Max. speed   | 2 m/s  |
| Repetition accuracy  | ±0,08 mm   |
| Ambient temperature  | -10 ... 40 °C  |
| Max. drive torque  | 0.5 Nm   |
| Max. feed force F <sub>x</sub>                               | 60 N   |
| No-load driving torque                                       | 0.2 Nm   |
| Mass moment of inertia J <sub>H</sub> per metre of stroke    | 0.021 kgcm <sup>2</sup>                              |
| Mass moment of inertia J <sub>L</sub> per kg of working load | 0.685 kgcm <sup>2</sup>                              |
| Feed constant  | 52 mm/U  |
| Material of end caps   | Wrought Aluminium alloy<br>Anodised                  |
| Material of moment compensator                               | PA-reinforced  |
| Material of profile  | Wrought Aluminium alloy<br>Anodised                  |
| Material cover tape  | High alloy steel, non-corrosive                      |
| Material drive cover   | Wrought Aluminium alloy<br>Anodised                  |
| Material guide slide   | Wrought Aluminium alloy<br>Anodised                  |
| Material guide rail  | Roller bearing steel                                 |