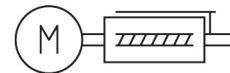


# Mini slide EGSL-BS-45-100-10P

Part number: 559335

**FESTO**



## Data sheet

| Feature                          | Value                                                    |
|----------------------------------|----------------------------------------------------------|
| Working stroke                   | 100 mm                                                   |
| Size                             | 45                                                       |
| Running parallelism along Z-axis | 0.04 mm                                                  |
| Parallelism                      | 0.05 mm                                                  |
| Reversing backlash theoretical   | 50 µm                                                    |
| Spindle diameter                 | 10 mm                                                    |
| Spindle pitch                    | 10 mm/U                                                  |
| Mounting position                | optional                                                 |
| Guide                            | Ball bearing cage guide                                  |
| Design                           | Electric mini slide<br>Guidance<br>With ball screw drive |
| Type of motor                    | Stepper motor<br>Servo motor                             |
| Spindle type                     | Ball screw drive                                         |
| Position detection               | Via proximity switch                                     |
| Max. acceleration                | 25 m/s <sup>2</sup>                                      |
| Max. speed                       | 1 m/s                                                    |
| Repetition accuracy              | ±0.015 mm                                                |
| Duty cycle                       | 100%                                                     |
| Corrosion resistance class CRC   | 0 - No corrosion stress                                  |
| LABS (PWIS) conformity           | VDMA24364 zone III                                       |
| Sound pressure level             | 60 dB(A)                                                 |
| Degree of protection             | IP40                                                     |
| Ambient temperature              | 0 °C...60 °C                                             |
| Continuous feed force            | 100 N                                                    |
| Max. drive torque                | 0.415 Nm                                                 |
| Max. force F <sub>y</sub>        | 631 N                                                    |
| Max. force F <sub>z</sub>        | 631 N                                                    |
| Max. moment M <sub>x</sub>       | 18.6 Nm                                                  |
| Max. moment M <sub>y</sub>       | 16.3 Nm                                                  |
| Max. moment M <sub>z</sub>       | 16.3 Nm                                                  |

| Feature                                          | Value                                                        |
|--------------------------------------------------|--------------------------------------------------------------|
| Max. radial force at drive shaft                 | 120 N                                                        |
| Max. feed force Fx                               | 150 N                                                        |
| Frictional torque independent of load            | 0.08 Nm                                                      |
| Reference value effective load, horizontal       | 6 kg                                                         |
| Reference value effective load, vertical         | 6 kg                                                         |
| Mass moment of inertia JL per kg of working load | 0.0253 kgcm <sup>2</sup>                                     |
| Mass moment of inertia JO                        | 0.0614 kgcm <sup>2</sup>                                     |
| Feed constant                                    | 10 mm/U                                                      |
| Maintenance interval                             | Life-time lubrication                                        |
| Moving mass                                      | 670 g                                                        |
| Product weight                                   | 1570 g                                                       |
| Type of mounting                                 | Via female thread<br>Via centring sleeve<br>With accessories |
| Note on materials                                | RoHS-compliant                                               |
| Material cover                                   | Die-cast aluminium<br>Painted                                |
| Material guide rail                              | Rolled steel                                                 |
| Material housing                                 | Wrought aluminium alloy<br>Anodised                          |
| Material yoke plate                              | Wrought aluminium alloy<br>Anodised                          |
| Material spindle nut                             | Rolled steel                                                 |
| Material spindle                                 | Rolled steel                                                 |