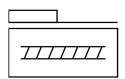
Spindle axis ELGT-BS-160- -Part number: 8121226





Data sheet

| Feature | Value |
|--|---|
| Working stroke | 100 mm1400 mm |
| Size | 160 |
| Stroke reserve | 0 mm |
| Reversing backlash theoretical | 150 µm |
| Spindle diameter | 20 mm |
| Spindle pitch | 10 mm/U20 mm/U |
| Mounting position | optional |
| Guide | Recirculating ball bearing guide |
| Design | Electromechanical linear axis With ball screw |
| Type of motor | Stepper motor Servo motor |
| Spindle type | Ball screw |
| Variants | Metals with copper, zinc or nickel as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils. |
| Max. acceleration | 15 m/s ² |
| Max. rotational speed | 3000 rpm |
| Max. speed | 0.5 m/s1 m/s |
| Repetition accuracy | ±0.02 mm |
| Duty cycle | 100% |
| LABS (PWIS) conformity | VDMA24364 zone III |
| Suitability for the production of Li-ion batteries | Metals with more than 1% copper, zinc or nickel by mass are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils |
| Cleanroom class | Class 8 according to ISO 14644-1 |
| Degree of protection | IP20 |
| Ambient temperature | 0 °C50 °C |
| Continuous feed force | 1045 N1575 N |
| 2nd moment of area ly | 1411000 mm⁴ |
| 2nd moment of area Iz | 15257000 mm⁴ |
| Idle torque at vmax | 0.4 Nm |

| Feature | Value |
|---|---|
| Idle torque at vmin | 0.14 Nm0.2 Nm |
| Max. force Fy | 9550 N |
| Max. force Fz | 11370 N |
| Fy at theoretical life value of 100 km (only guide consideration) | 35183 N |
| Fz at theoretical life value of 100 km (only guide consideration) | 41887 N |
| Max. moment Mx | 600 Nm |
| Max. moment My | 560 Nm |
| Max. moment Mz | 560 Nm |
| Mx at theoretical life value of 100 km (only guide consideration) | 2210 Nm |
| My at theoretical life value of 100 km (only guide consideration) | 2063 Nm |
| Mz at theoretical life value of 100 km (only guide consideration) | 2063 Nm |
| Max. radial force at drive shaft | 290 N340 N |
| Max. feed force Fx | 1045 N1575 N |
| Torsional mass moment of inertia It | 726000 mm⁴ |
| Mass moment of inertia JH per metre of stroke | 0.809 kgcm ² 0.9027 kgcm ² |
| Mass moment of inertia JL per kg of working load | 0.0253 kgcm ² 0.1013 kgcm ² |
| Mass moment of inertia JO | 0.3175 kgcm ² 0.6342 kgcm ² |
| Mass moment of inertia JW for additional slide | 0.082 kgcm ² 0.3284 kgcm ² |
| Feed constant | 10 mm/U20 mm/U |
| Moving mass | 3842 g3855 g |
| Product weight | 11440 g37902 g |
| Weight of additional slide | 3142 g |
| Basic weight for 0 mm stroke | 9564 g9601 g |
| Additional weight per 10 mm stroke | 188 g |
| 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 |
| Interface code, actuator | T46 |
| Material end cap | Painted die cast aluminium |
| Material profile | Anodised wrought aluminium alloy |
| Note on materials | RoHS-compliant |
| Material drive cover | Painted die cast aluminium |
| Material guide slide | Steel |
| Material guide rail | Steel |
| Material slide | Anodised wrought aluminium alloy |
| Material spindle nut | Steel |
| Material spindle | Steel |