Spindle axis ELGC-BS and toothed belt axis ELGC-TB

Compact movement!

When it comes to compact dimensions and optimised installation space, the low-cost axis series ELGC is ideal. These features are a clear advantage in assembly systems, test and inspection systems, small parts handling, the electronics industry and desktop applications. The spindle and toothed belt axes are suitable for all horizontal and vertical movements, and are the perfect complement to the guide axis ELFC or the mini slide EGSC.

Powerful and clean
Precise, capable of carrying heavy loads and very durable, the linear axes ELGC have an internal, protected recirculating ball bearing guide and life-time lubrication. The weight-optimised design and smooth, clean look surfaces create handling systems that are fit to be seen. Flexible motor mounting is included as standard.

Spindle axis ELGC-BS-KF
Internal spindle with ball screw for precise and smooth operation.

Toothed belt axis ELGC-TB-KF
Internal toothed belt drive for dynamic movements, even with heavy loads.

Guide axis ELFC-KF
Driveless linear guide axis with freely movable slide and recirculating ball bearing guide. Ideal for supporting force and torque as well as for increased torsional resistance and reduced vibrations.

Highlights

• Compact: optimum ratio of installation space to working space
• Protected: internal guide keeping external influences out
• Flexible: wide range of motor mounting options for optimum machine integration
• Unique: "one-size-down" mounting system

Protected and low cost
Spindle axis ELGC-BS and toothed belt axis ELGC-TB

**Spindle axis ELGC-BS-KF**
- Stainless steel cover band kept in place with magnetic strips
- Flexible motor mounting, position can be changed at any time
- Compact double bearing integrated in the axis to save space

**Toothed belt axis ELGC-TB-KF**
- Recirculating ball bearing guide
  - Integrated recirculating ball bearing guide with long service life
  - Rigid and precise guide rail to absorb high guide forces
- Compact, integrated coupling, easy to service
- Clean look design: easy to clean and less prone to contamination
- Vacuum connection
  - Standard: closed in order to seal the axis and reduce particle emissions
  - Optional: can be connected at any time for increased protection of the system

### Technical data

<table>
<thead>
<tr>
<th></th>
<th>Spindle axis ELGC-BS-KF</th>
<th>Toothed belt axis ELGC-TB-KF</th>
<th>Guide axis ELFC-KF</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Design</strong></td>
<td>Electromechanical axis with ball screw</td>
<td>Electromechanical axis with toothed belt</td>
<td>Guide without drive</td>
</tr>
<tr>
<td><strong>Sizes</strong></td>
<td>32, 45, 60, 80</td>
<td>45, 60, 80</td>
<td>32, 45, 60, 80</td>
</tr>
<tr>
<td><strong>Working stroke [mm]</strong></td>
<td>100 ... 1,000</td>
<td>200 ... 2,000</td>
<td></td>
</tr>
<tr>
<td><strong>Max. feed force [N]</strong></td>
<td>40, 100, 200, 350</td>
<td>75, 120, 250</td>
<td></td>
</tr>
<tr>
<td><strong>Max. speed [m/s]</strong></td>
<td>1</td>
<td>1.5</td>
<td>1.5</td>
</tr>
<tr>
<td><strong>Max. acceleration [m/s²]</strong></td>
<td>15</td>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>

### Simple and compact system

www.festo.com