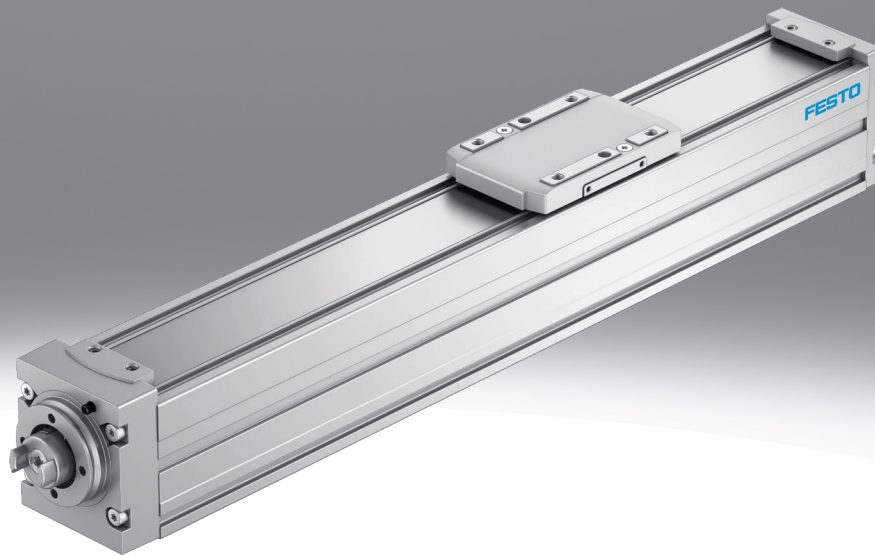


## Spindle axis ELGC-BS

**FESTO**



## Characteristics

### At a glance

Further information → [elgc-bs](#)

- Optimal installation space to working space ratio
- Protected against external influences by internal guide
- Unique mounting system enables the spindle axis ELGC and mini slide EGSC to be combined without using an adapter
- Compact double bearing integrated in the axis to save space
- Stainless steel cover strip kept in place with magnetic strips
- Wide range of mounting options for optimal machine integration
- Suitable for the production of Li-ion batteries

### Sealing air connection

- Air is exchanged between the interior of the cylinder and the environment via a sealing air connection. This prevents negative pressure or excess pressure from developing in the cylinder interior.
- Application of slight negative pressure prevents the emission of particles
- Application of slight overpressure prevents the immission of particles

### Product segmentation



#### Festo Core Range

Solves the majority of your automation tasks

With the Festo Core Range, we have selected the most important products and functions from our broad product catalogue, and added the quickest delivery. The Core Range offers you the best value with the expected high Festo quality.

- Quickest delivery, worldwide – wherever, whenever
- Expected high Festo quality
- Easy and fast to select

### Engineering tools

Further information → [engineering tools](#)



Save time with engineering tools Smart Engineering for the optimal solution. Our goal is to increase your productivity. Our engineering tools play an integral part in this. They help you size your system correctly, tap into unimagined productivity reserves and generate additional productivity along the entire value chain. In every phase of your project, from the initial contact to the modernisation of your machine, you will come across a number of different tools which will be of use to you.

### Electric Motion Sizing

- Create the optimum drive package quickly and reliably. Electric Motion Sizing calculates suitable combinations of electric axis, electric motor and servo drive using just a few application details. It provides all the relevant data including the bill of materials and documentation for your selected combination. This avoids design errors and results in significantly improved energy efficiency for the system. A smooth connection to the Festo Automation Suite also makes commissioning easier for you.

### Diagrams

Further information → [elgc-bs](#)



The diagrams shown in this document are also available online. These can be used to display precise values.

### Drive system

[BS] Ball screw drive

- For applications that require precision
- High reliability and long service life
- For large loads

### Guide

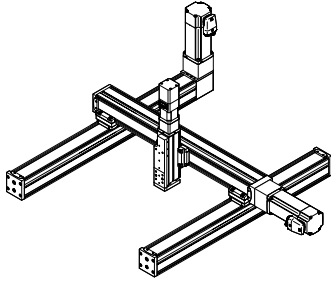
- Very sturdy and precise guiding principle for transmitting the drive force and moving additional loads
- The guide can easily absorb high torques and forces

## Characteristics

### Spindle pitch

The spindle pitch describes the distance travelled by the spindle nut per revolution of the spindle in millimetres.

### Overview



- From the individual axis to the handling system, such as a cantilever system, planar surface gantry or three-dimensional gantry
- The toothed belt and spindle axes ELGC and mini slides EGSC form a scalable modular system for compact automation systems
- The common platform architecture provides an integrated range with matching interfaces. A large number of systems can be implemented completely without adapter plates
- High-performance drive and guide elements ensure a long service life as well as excellent load-bearing capacity and reliability
- The uniform and universal range of accessories reduces warehousing and design costs

Type code

| 001  | Series      |
|------|-------------|
| ELGC | Gantry axis |

| 002 | Drive system     |
|-----|------------------|
| BS  | Ball screw drive |

| 003 | Guide                            |
|-----|----------------------------------|
| KF  | Recirculating ball bearing guide |

| 004 | Size |
|-----|------|
| 32  | 32   |
| 45  | 45   |
| 60  | 60   |
| 80  | 80   |

| 005  | Stroke [mm] |
|------|-------------|
| 100  | 100         |
| 200  | 200         |
| 300  | 300         |
| 400  | 400         |
| 500  | 500         |
| 600  | 600         |
| 800  | 800         |
| 1000 | 1000        |

| 006 | Spindle pitch |
|-----|---------------|
| 8P  | 8 mm          |
| 10P | 10 mm         |
| 12P | 12 mm         |
| 16P | 16 mm         |

## Datasheet

| General technical data              |  |           |           |  |
|-------------------------------------|--|-----------|-----------|--|
| Size                                | 32   | 45        | 60        | 80   |
| Design                              | Electromechanical linear axis, With ball screw         |           |           |  |
| Guide                               | Recirculating ball bearing guide                       |           |           |  |
| Mounting position                   | optional   |           |           |  |
| Working stroke                      | 100 mm; 200 mm; 300 mm; 400 mm; 500 mm; 600 mm; 800 mm |           |           | 100 mm; 200 mm; 300 mm; 400 mm; 500 mm; 600 mm; 800 mm; 1,000 mm |
| Max. feed force F <sub>x</sub>      | 40 N   | 100 N     | 200 N     | 350 N  |
| Idle torque at v <sub>min</sub>     | 0.02 Nm  | 0.032 Nm  | 0.042 Nm  | 0.095 Nm   |
| Idle torque at v <sub>max</sub>     | 0.04 Nm  | 0.12 Nm   | 0.246 Nm  | 0.396 Nm   |
| Max. radial force at drive shaft    | 75 N   | 180 N     | 230 N     | 500 N  |
| Max. speed <sup>1)</sup>            | 0.6 m/s  |           | 0.8 m/s   | 1 m/s  |
| Max. rotational speed <sup>2)</sup> | 4,500 rpm  | 3,600 rpm | 4,000 rpm | 3,750 rpm  |
| Max. acceleration                   | 15 m/s <sup>2</sup>                                    |           |           |  |
| Repetition accuracy                 | ±0.015 mm  |           | ±0.01 mm  |  |
| Reversing backlash theoretical      | 0.15 mm  |           |           |  |
| Position detection                  | Via proximity switch, Via inductive sensors            |           |           |  |

1) Speed is stroke-dependent

2) Rotational speed is stroke-dependent

| Operating and ambient conditions  |                                  |
|-----------------------------------|----------------------------------|
| Ambient temperature <sup>1)</sup> | 0 ... 50°C                       |
| Degree of protection              | IP40                             |
| Duty cycle                        | 100%                             |
| Cleanroom class                   | Class 7 according to ISO 14644-1 |
| Maintenance interval              | Life-time lubrication            |

1) Note operating range of the proximity switches

| Weight                                     |        |       |         |         |
|--|--------|-------|---------|---------|
| Size                                       | 32     | 45    | 60      | 80      |
| Basic weight for 0 mm stroke <sup>1)</sup> | 296 g  | 724 g | 1,682 g | 2,942 g |
| Additional weight per 10 mm stroke         | 18 g   | 36 g  | 51 g    | 88 g    |
| Moving mass                                | 83.4 g | 220 g | 525 g   | 978 g   |

1) Incl. slide

| Spindle          |        |         |         |         |
|------------------|--------|---------|---------|---------|
| Size             | 32     | 45      | 60      | 80      |
| Spindle diameter | 8 mm   | 10 mm   | 12 mm   | 16 mm   |
| Spindle pitch    | 8 mm/U | 10 mm/U | 12 mm/U | 16 mm/U |

### Mass moment of inertia

$$J_A = J_O + J_H \cdot l + J_L \cdot m$$

The mass moment of inertia J of the spindle axis is calculated as follows.

l = working stroke

m = moving payload

| Size   | 32                      | 45                      | 60                      | 80                      |
|--|-------------------------|-------------------------|-------------------------|-------------------------|
| Mass moment of inertia J <sub>O</sub>                        | 0.003 kgcm <sup>2</sup> | 0.008 kgcm <sup>2</sup> | 0.022 kgcm <sup>2</sup> | 0.079 kgcm <sup>2</sup> |
| Mass moment of inertia J <sub>H</sub> per metre of stroke    | 0.022 kgcm <sup>2</sup> | 0.051 kgcm <sup>2</sup> | 0.108 kgcm <sup>2</sup> | 0.353 kgcm <sup>2</sup> |
| Mass moment of inertia J <sub>L</sub> per kg of working load | 0.016 kgcm <sup>2</sup> | 0.025 kgcm <sup>2</sup> | 0.036 kgcm <sup>2</sup> | 0.065 kgcm <sup>2</sup> |

## Datasheet

### Homing

Homing can be carried out in two ways:

- against the fixed stop
- Using a reference switch

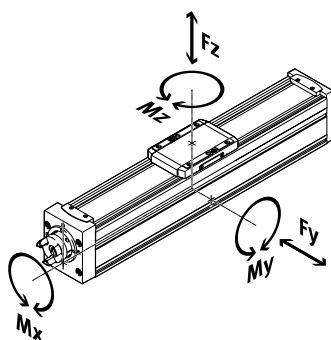
The following values must be observed:

| Size   | 32                                  | 45     | 60   | 80   |
|--|-------------------------------------|--------|------|------|
| Impact energy in end positions                 | 0.25 mJ                             | 0.5 mJ | 1 mJ | 2 mJ |
| Note on the impact energy in the end positions | At maximum homing speed of 0.01 m/s |        |      |      |

### Materials

|  |  |
|--|--|
| Material drive cover                               | Painted die cast aluminium   |
| Material spindle nut                               | Steel  |
| Material slide                                     | Die-cast aluminium   |
| Material guide slide                               | Steel  |
| Material spindle                                   | Steel  |
| Material cover tape                                | High-alloy stainless steel   |
| Material profile                                   | Anodised wrought aluminium alloy   |
| Material end cap                                   | Painted die cast aluminium   |
| Note on materials                                  | RoHS-compliant   |
| 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 |

### Permissible forces and torques



The indicated forces and torques refer to the centre of the guide. The point of application is the intersection of the centre of the guide and the centre of the length of the slide. They must not be exceeded in dynamic operation. Special attention must be paid to the deceleration process.

### Permissible forces and torque on the slide (strength limits)

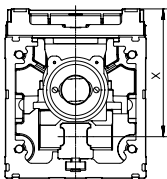
| Size              | 32     | 45     | 60      | 80      |
|-------------------|--------|--------|---------|---------|
| Max. force $F_y$  | 150 N  | 300 N  | 600 N   | 900 N   |
| Max. force $F_z$  | 300 N  | 600 N  | 1,800 N | 2,700 N |
| Max. moment $M_x$ | 1.3 Nm | 5.5 Nm | 29.1 Nm | 59.8 Nm |
| Max. moment $M_y$ | 1.1 Nm | 4.7 Nm | 31.8 Nm | 56.2 Nm |
| Max. moment $M_z$ | 1.1 Nm | 4.7 Nm | 31.8 Nm | 56.2 Nm |

### Permissible forces and torque for the guide calculation for a service life of 5000 km or $5 \times 10^6$ cycles

| Size                         | 32  | 45  | 60    | 80    |
|------------------------------|-----|-----|-------|-------|
| Max. force $F_y$ total axis  | 356 | 880 | 3,641 | 5,543 |
| Max. force $F_z$ total axis  | 356 | 880 | 3,641 | 5,543 |
| Max. moment $M_x$ total axis | 1.3 | 5.5 | 29.1  | 59.8  |
| Max. moment $M_y$ total axis | 1.1 | 4.7 | 31.8  | 56.2  |
| Max. moment $M_z$ total axis | 1.1 | 4.7 | 31.8  | 56.2  |

## Datasheet

### Distance x from the slide surface to the centre of the guide



Distance x:

Size 32/45/60/80

Dimension x: 31.4 mm / 42.8 mm / 54.6 mm / 72.5 mm

### Calculating the load comparison factor

$$f_v = \frac{|F_{y1}|}{F_{y2}} + \frac{|F_{z1}|}{F_{z2}} + \frac{|M_{x1}|}{M_{x2}} + \frac{|M_{y1}|}{M_{y2}} + \frac{|M_{z1}|}{M_{z2}} \leq 1$$

If the axis is subjected to several of the indicated forces and torques at the same time, the following equation must be satisfied in addition to the indicated maximum loads.

For a guide system to have a service life of 5000 km, the load comparison factor must have a value of  $f_v < 1$ , based on the maximum permissible forces and torques for a service life of 5000 km. This formula can be used to calculate a guide value. The engineering software "Electric Motion Sizing" is available for more precise calculations.

F1 / M1 = dynamic value

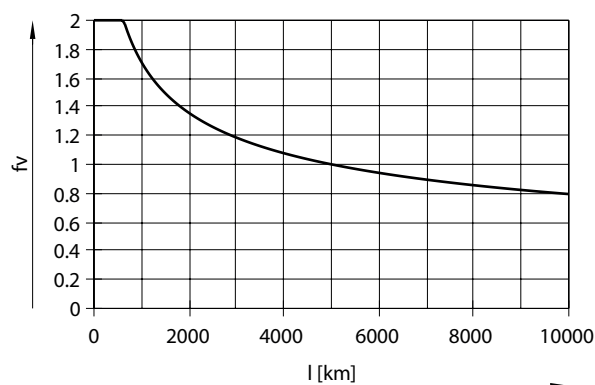
F2 / M2 = maximum value

### Calculating the service life of the guide

The service life of the guide depends on the load. To provide a rough indication of the service life of the guide, the graph below plots the load comparison factor  $f_v$  against the service life.

These values are only theoretical. You must consult your local Festo contact for a load comparison factor  $f_v$  greater than 1.

### Service life of the guide



The service life of the guide depends on the load. To be able to make a statement about the service life of the guide, the graph below plots the load comparison factor  $f_v$  against the service life.

These values are only theoretical. You must consult your local Festo contact for a load comparison factor  $f_v$  greater than 1.

Example:

A user wants to move a X kg load. The calculation results in a value of 1.5 for the load comparison factor  $f_v$ . According to the graph, the guide would have a service life of approx. 1500 km. Reducing the acceleration reduces the  $M_y$  and  $M_z$  values. A load comparison factor  $f_v$  of 1 now results in a service life of 5000 km.

## Datasheet

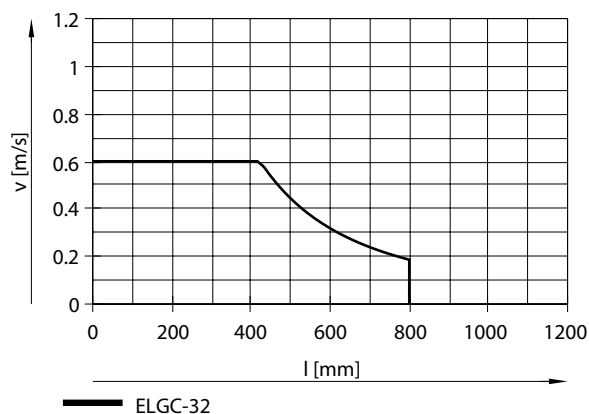
### Permissible forces and torques at a theoretical service life of 100 km (pure guide load)

The characteristic load values of the bearing guides are standardised to ISO and JIS using dynamic and static forces and torques. These forces and torques are based on an expected service life of the guide system of 100 km to ISO or 50 km to JIS. As the characteristic load values are dependent on the service life, the maximum permissible forces and torques for a 5000 km service life cannot be compared with the dynamic forces and torques of roller guides to ISO/JIS.

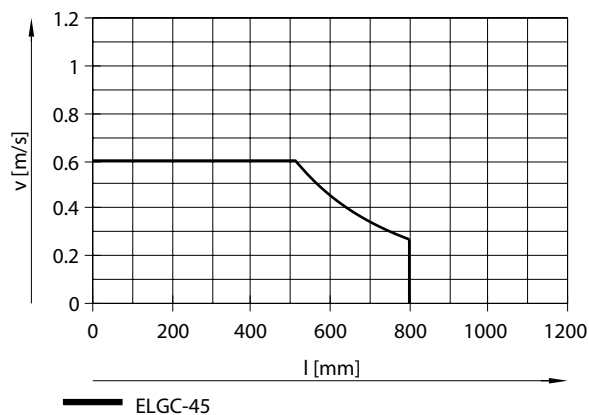
To make it easier to compare the guide capacity of linear axes ELGC with bearing guides, the table below lists the theoretically permissible forces and torques for a calculated service life of 100 km. This corresponds to the dynamic forces and moments to ISO. These 100 km values have been calculated mathematically and are only to be used for comparing with dynamic forces and torques to ISO. The drives must not be loaded with these characteristic values as this could damage the axes.

| Size  | 32      | 45      | 60       | 80       |
|---|---------|---------|----------|----------|
| Fy at theoretical life value of 100 km (only guide consideration) | 1,310 N | 3,240 N | 13,400 N | 20,400 N |
| Fz at theoretical life value of 100 km (only guide consideration) | 1,310 N | 3,240 N | 13,400 N | 20,400 N |
| Mx at theoretical life value of 100 km (only guide consideration) | 5 Nm    | 20 Nm   | 107 Nm   | 220 Nm   |
| My at theoretical life value of 100 km (only guide consideration) | 4 Nm    | 17 Nm   | 117 Nm   | 207 Nm   |
| Mz at theoretical life value of 100 km (only guide consideration) | 4 Nm    | 17 Nm   | 117 Nm   | 207 Nm   |

### Speed v as a function of working stroke l for size 32



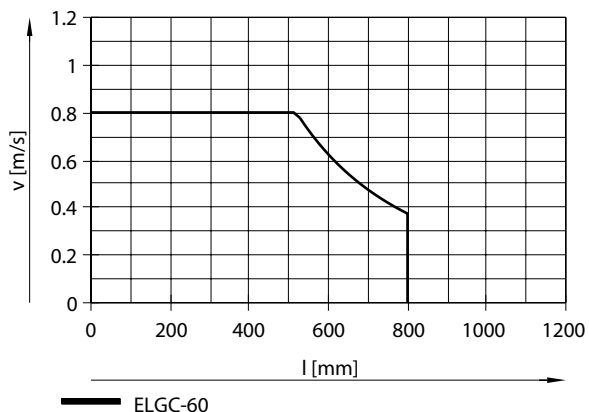
### Speed v as a function of working stroke l for size 45



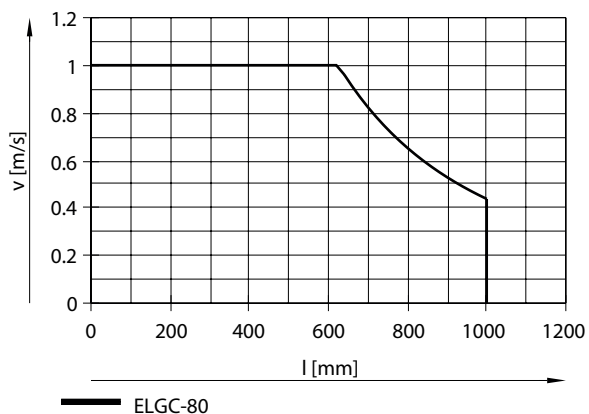


## Datasheet

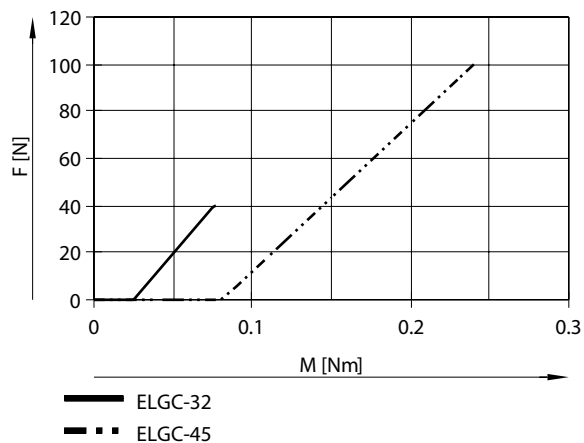
Speed  $v$  as a function of working stroke  $l$  for size 60



Speed  $v$  as a function of working stroke  $l$  for size 80

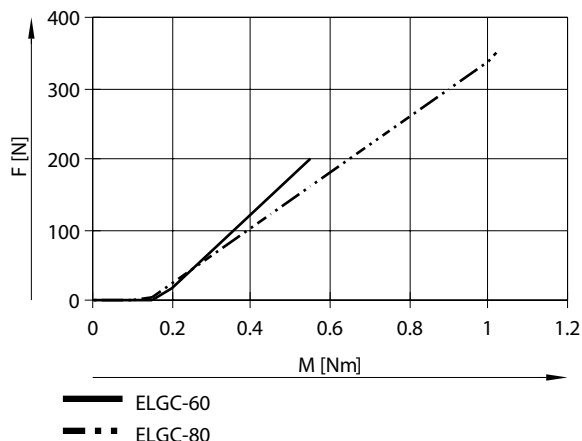


Theoretical feed force  $F$  as a function of input torque  $M$  for size 32/45

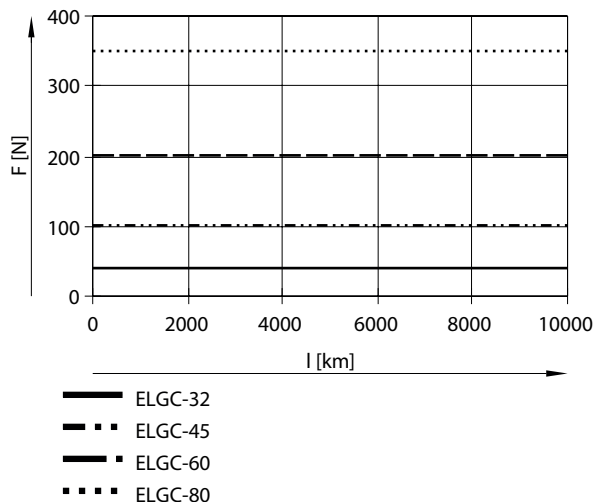


## Datasheet

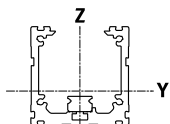
### Theoretical feed force F as a function of input torque M for size 60/80



### Feed force F as a function of service life l



### 2nd moment of area



| Size                              | 32                     | 45                      | 60                      | 80                        |
|-----------------------------------|------------------------|-------------------------|-------------------------|---------------------------|
| 2nd moment of area I <sub>y</sub> | 38,000 mm <sup>4</sup> | 140,000 mm <sup>4</sup> | 441,000 mm <sup>4</sup> | 1,370,000 mm <sup>4</sup> |
| 2nd moment of area I <sub>z</sub> | 45,000 mm <sup>4</sup> | 170,000 mm <sup>4</sup> | 542,000 mm <sup>4</sup> | 1,660,000 mm <sup>4</sup> |

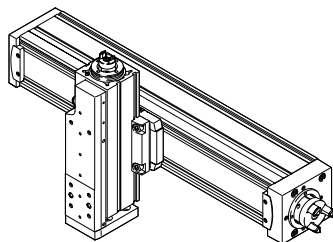
### Recommended deflection limits

Adherence to the following deflection limits is recommended so as not to impair the functionality of the axes. Greater deformation can result in increased friction, more wear and reduced service life.

|  |                                       |
|--|---------------------------------------|
| 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               |

## Datasheet

### Combinations between axis ELGC, ELGS, mini slide EGSC-BS, EGSS-BS, electric cylinder EPCC, EPCS and guide axis ELFC

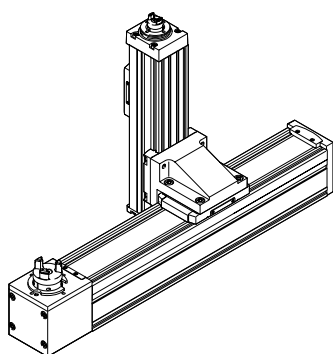


Mounting options with profile mounting EAHF-L2-...-P-D

- Mounting option: base axis with one-size-down assembly axis

1. Base axis:  
Product: ELGC, ELGS, ELFC  
Size 32, 45, 60, 80
2. Assembly axis:  
Product: ELGC, ELGS, EGSC, EGSS, EPCC, EPCS, ELFC  
Size 25, 32, 45, 60

### Combinations between axis ELGC, ELGS, mini slide EGSC-BS, EGSS-BS, electric cylinder EPCC, EPCS and guide axis ELFC

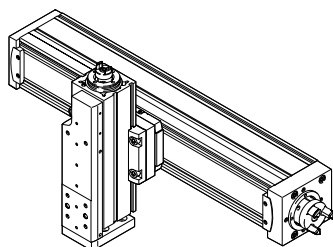


Mounting options with angle kit EHAA-D-L2-...-AP

- Mounting option: base axis with one-size-down assembly axis

1. Base axis:  
Product: ELGC, ELGS, ELFC  
Size 32, 45, 60, 80
2. Assembly axis:  
Product: ELGC, ELGS, EGSC, EGSS, EPCC, EPCS, ELFC  
Size 25, 32, 45, 60

### Combinations between axis ELGC, ELGS, mini slide EGSC-BS, EGSS-BS, electric cylinder EPCC, EPCS and guide axis ELFC

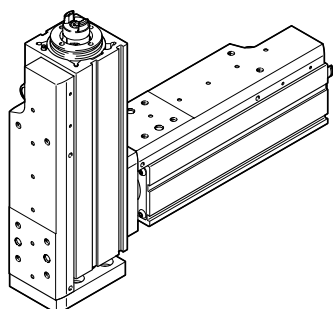


Mounting options with adapter kit EHAA-D-L2

- Mounting option: base axis with same size assembly axis
- Mounting option: base axis with height compensation for one-size-down assembly axis
- When motors are mounted using parallel kits, this may lead to interfering contours. In this case, the adapter plate is required for height compensation

1. Base axis:  
Product: ELGC, ELGS, ELFC  
Size 32, 45, 60, 80
2. Assembly axis:  
Product: ELGC, ELGS, EGSC, EGSS, EPCC, EPCS, ELFC  
Size 25, 32, 45, 60, 80

### Combinations between mini slides EGSC-BS, EGSS-BS



Mounting options with direct mounting

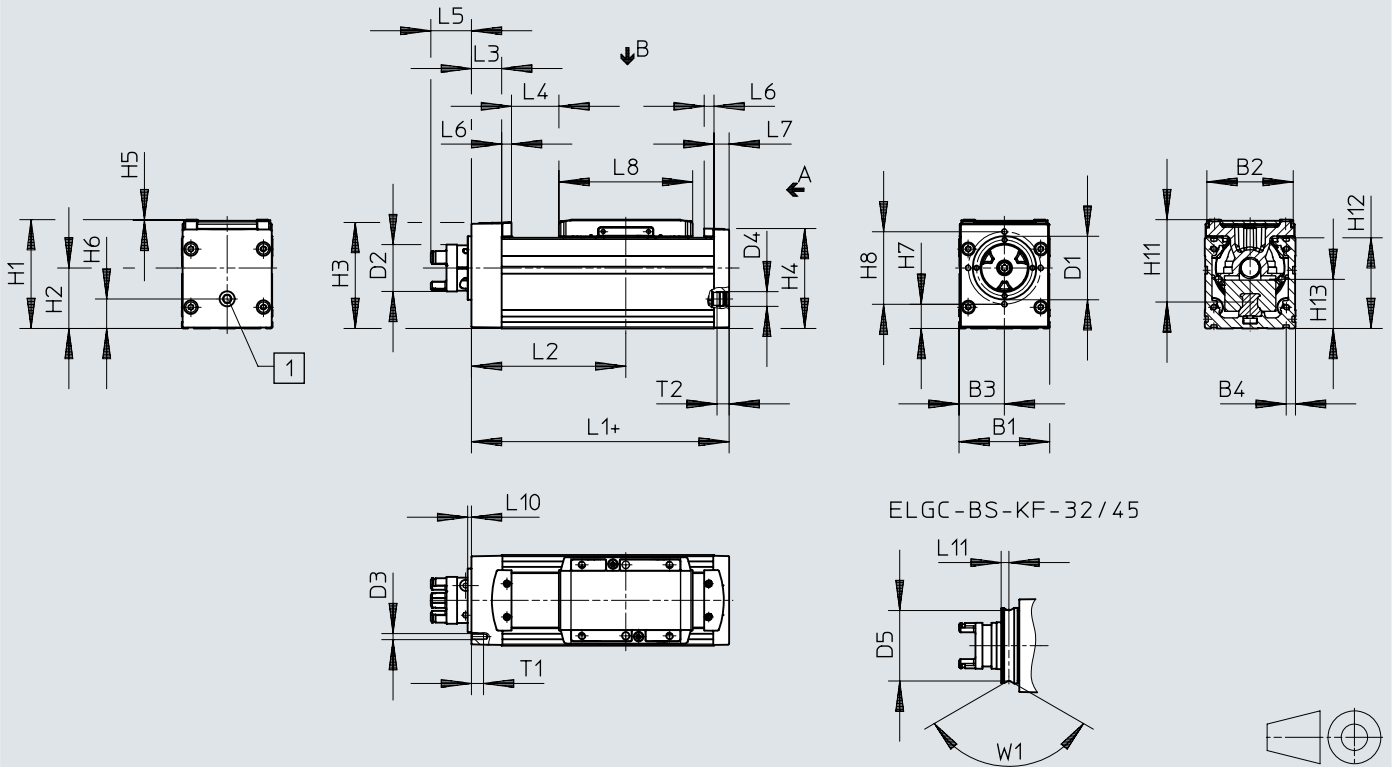
- Mounting option: base axis with same size assembly axis

1. Base axis:  
Product: EGSC, EGSS  
Size 25, 32, 45, 60
2. Assembly axis:  
Product: EGSC, EGSS  
Size 25, 32, 45, 60

Dimensions

Dimensions – Spindle axes ELGC-BS-KF

Download CAD data → [www.festo.com](http://www.festo.com)



- [1] Sealing air connection (D4)
- [2] + = plus stroke length
- [3] L4 = End position zero stroke

|               | B1 | B2   | B3   | B4  | D1<br>ø | D2 <sup>1)</sup><br>ø | D3 | D4   | D5<br>ø | H1   | H2   |
|---------------|----|------|------|-----|---------|-----------------------|----|------|---------|------|------|
| ELGC-BS-KF-32 | 32 | 29,6 | 16   | 4,9 | 25      | 15,5                  | –  | M5   | 23      | 38,5 | 20   |
| ELGC-BS-KF-45 | 45 | 42,6 | 22,5 | 6,1 | 32      | 16,3                  | –  | G1/8 | 29,6    | 54   | 27,9 |
| ELGC-BS-KF-60 | 60 | 57,1 | 30   | 6,1 | 42      | 31,4                  | M4 | G1/8 | –       | 72   | 40   |
| ELGC-BS-KF-80 | 80 | 77,1 | 40   | 6,1 | 46      | 31,4                  | M6 | G1/8 | –       | 96   | 50   |

|               | H3   | H4   | H5  | H6   | H7   | H8 | H11  | H12 | H13  | L1    | L2<br>min. |
|---------------|------|------|-----|------|------|----|------|-----|------|-------|------------|
| ELGC-BS-KF-32 | 36,3 | 35,6 | 0,3 | 8    | –    | –  | 31,4 | 32  | 13,7 | 104,5 | 57,9       |
| ELGC-BS-KF-45 | 50,8 | 49,6 | 0,5 | 12,5 | –    | –  | 42,8 | 45  | 18,5 | 134,3 | 79,7       |
| ELGC-BS-KF-60 | 70,1 | 66,1 | 0,5 | 19,5 | 16   | 48 | 54,6 | 60  | 32,5 | 170,5 | 102,1      |
| ELGC-BS-KF-80 | 90,6 | 88,1 | 0,5 | 20   | 17,5 | 65 | 72,5 | 80  | 41,5 | 198,5 | 119,6      |

|               | L3   | L4   | L5   | L6  | L7 | L8   | L10 | L11 | T1 | T2  | W1   |
|---------------|------|------|------|-----|----|------|-----|-----|----|-----|------|
| ELGC-BS-KF-32 | 10,5 | 13,4 | 19,9 | 4,5 | 5  | 59   | 6   | 2,6 | –  | 5,5 | 120° |
| ELGC-BS-KF-45 | 14,8 | 24,6 | 19,9 | 6,5 | 7  | 67,5 | 6   | 2,9 | –  | 8   | 90°  |
| ELGC-BS-KF-60 | 20   | 31,4 | 26,9 | 6,5 | 10 | 88,5 | 2,5 | –   | 8  | 8   | –    |
| ELGC-BS-KF-80 | 21   | 39,1 | 25,9 | 6,5 | 12 | 106  | 2,5 | –   | 15 | 8   | –    |

1) Coupling diameter or interference circuit diameter clamping screw

## Dimensions

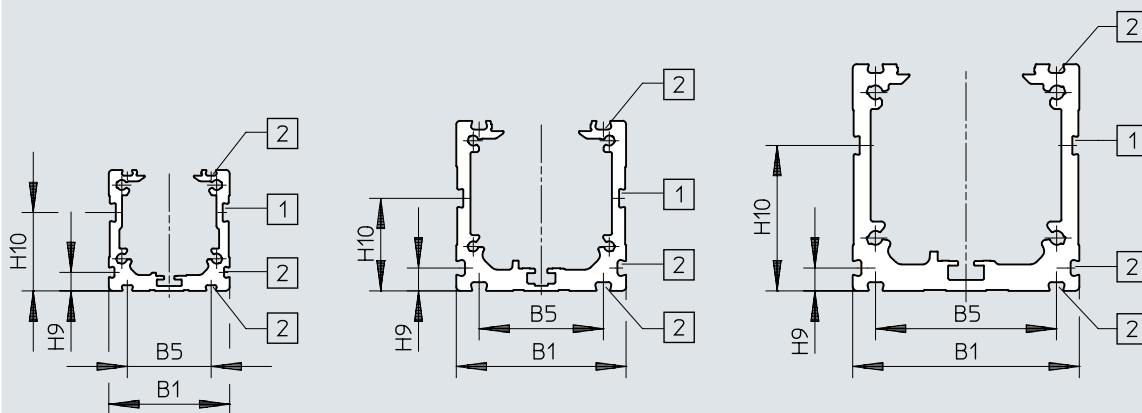
### Dimensions – Spindle axes ELGC-BS-KF (profile)

Download CAD data → [www.festo.com](http://www.festo.com)

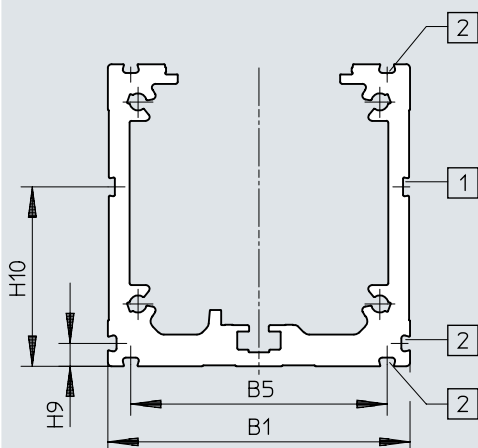
ELGC-BS-KF-32

ELGC-BS-KF-45

ELGC-BS-KF-60



ELGC-BS-KF-80



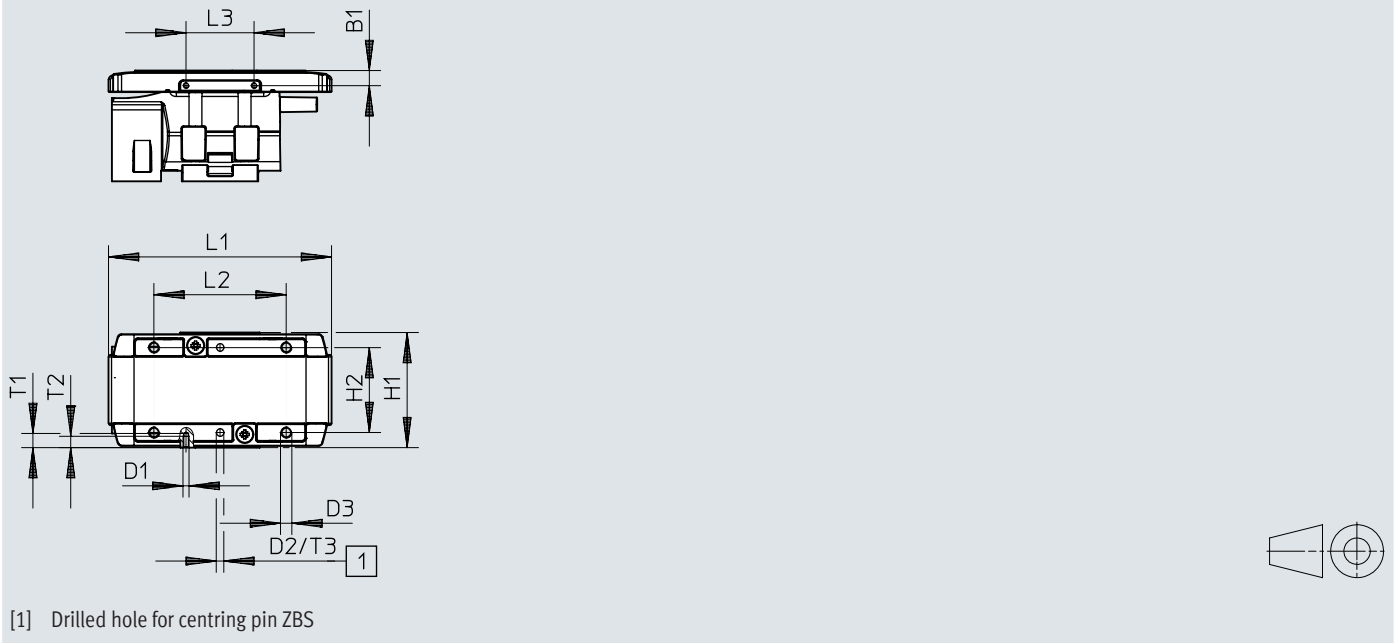
- [1] = Slot for sensor bracket
- [2] = Mounting slot

|               | B1 | B5   | H9  | H10  |
|---------------|----|------|-----|------|
| ELGC-BS-KF-32 | 32 | 22,2 | 4,9 | 20,8 |
| ELGC-BS-KF-45 | 45 | 32,9 | 6,1 | 24,5 |
| ELGC-BS-KF-60 | 60 | 47,9 | 6,1 | 38,5 |
| ELGC-BS-KF-80 | 80 | 67,9 | 6,1 | 47,5 |

## Dimensions

Dimensions – Spindle axes ELGC-BS-KF, size 32 (slide)

Download CAD data → [www.festo.com](http://www.festo.com)



|               | B1   | D1   | D2<br>∅<br>H8 | D3 | H1   | H2   |
|---------------|------|------|---------------|----|------|------|
|               | ±0,1 |      |               |    | ±0,1 | ±0,1 |
| ELGC-BS-KF-32 | 4    | M1,6 | 2             | M3 | 30,5 | 22,5 |

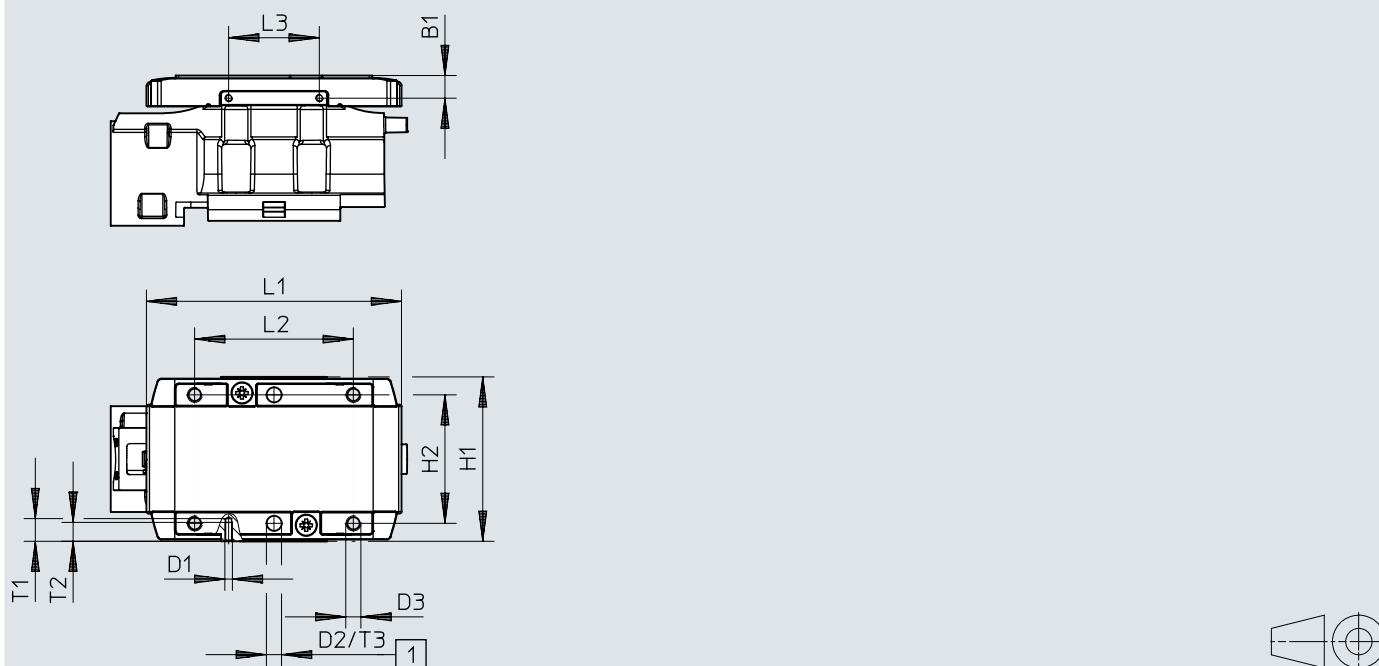
|               | L1 | L2   | L3   | T1  | T2 | T3   | T4 <sup>1)</sup> |
|---------------|----|------|------|-----|----|------|------------------|
|               |    | ±0,1 | ±0,1 |     |    | +0,1 |                  |
| ELGC-BS-KF-32 | 59 | 35   | 18   | 3,8 | 3  | 3,1  | 4 ... 5          |

1) Recommended screw-in depth

## Dimensions

### Dimensions – Spindle axes ELGC-BS-KF, size 45 (slide)

Download CAD data → [www.festo.com](http://www.festo.com)



[1] Drilled hole for centring pin ZBS

|               | B1        | D1 | D2<br>∅<br>H8 | D3 | H1           | H2<br>±0,1 |
|---------------|-----------|----|---------------|----|--------------|------------|
| ELGC-BS-KF-45 | ±0,1<br>6 | M2 | 4             | M4 | ±0,1<br>43,5 | 34         |

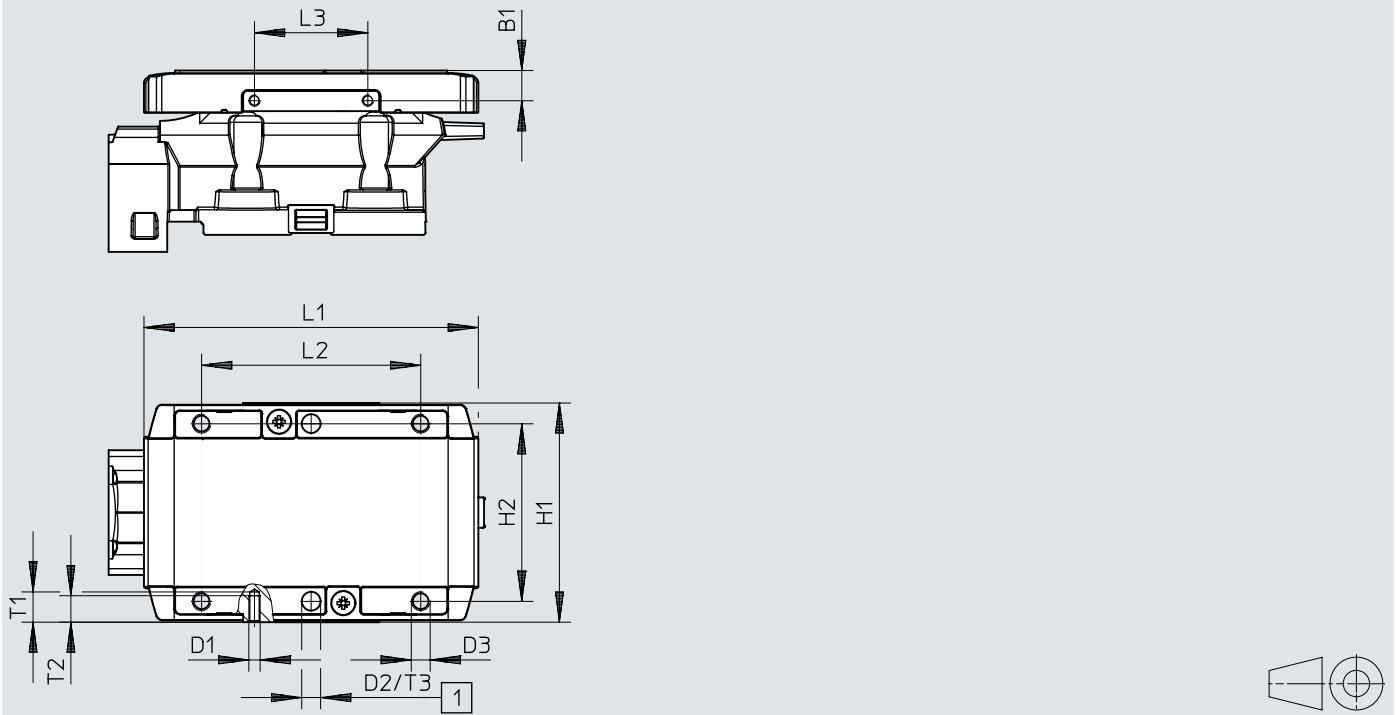
|               | L1   | L2<br>±0,1 | L3<br>±0,1 | T1 | T2 | T3<br>+0,1 | T4 <sup>1)</sup> |
|---------------|------|------------|------------|----|----|------------|------------------|
| ELGC-BS-KF-45 | 67,5 | 42         | 24         | 6  | 5  | 3,1        | 6 ... 7,5        |

1) Recommended screw-in depth

## Dimensions

Dimensions – Spindle axes ELGC-BS-KF, size 60 (slide)

Download CAD data → [www.festo.com](http://www.festo.com)



[1] Hole for centring sleeve ZBH

|               | B1   | D1 | D2<br>∅<br>H8 | D3 | H1   | H2   |
|---------------|------|----|---------------|----|------|------|
|               | ±0,1 |    |               |    | ±0,1 | ±0,1 |
| ELGC-BS-KF-60 | 8    | M3 | 5             | M5 | 58   | 47   |

|               | L1   | L2   | L3   | T1 | T2 | T3   | T4 <sup>1)</sup> |
|---------------|------|------|------|----|----|------|------------------|
|               |      | ±0,1 | ±0,1 |    |    | +0,1 |                  |
| ELGC-BS-KF-60 | 88,5 | 58   | 30   | 9  | 7  | 1,3  | 8,5 ... 10       |

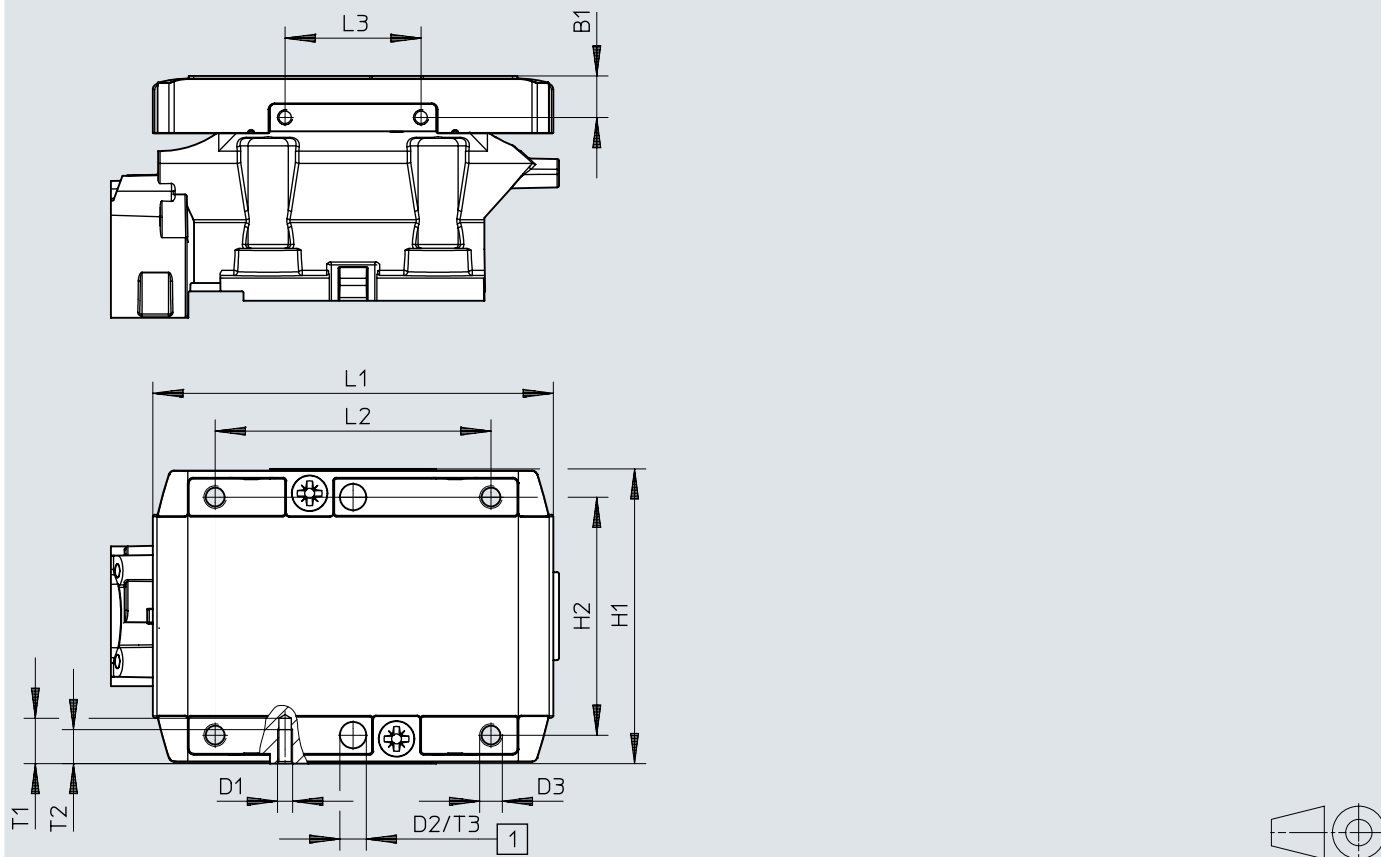
1) Recommended screw-in depth



## Dimensions

Dimensions – Spindle axes ELGC-BS-KF, size 80 (slide)

Download CAD data → [www.festo.com](http://www.festo.com)



[1] Hole for centring sleeve ZBH

|               | B1   | D1 | D2<br>∅<br>H8 | D3 | H1   | H2   |
|---------------|------|----|---------------|----|------|------|
|               | ±0,1 |    |               |    | ±0,1 | ±0,1 |
| ELGC-BS-KF-80 | 11   | M4 | 7             | M6 | 78   | 63   |

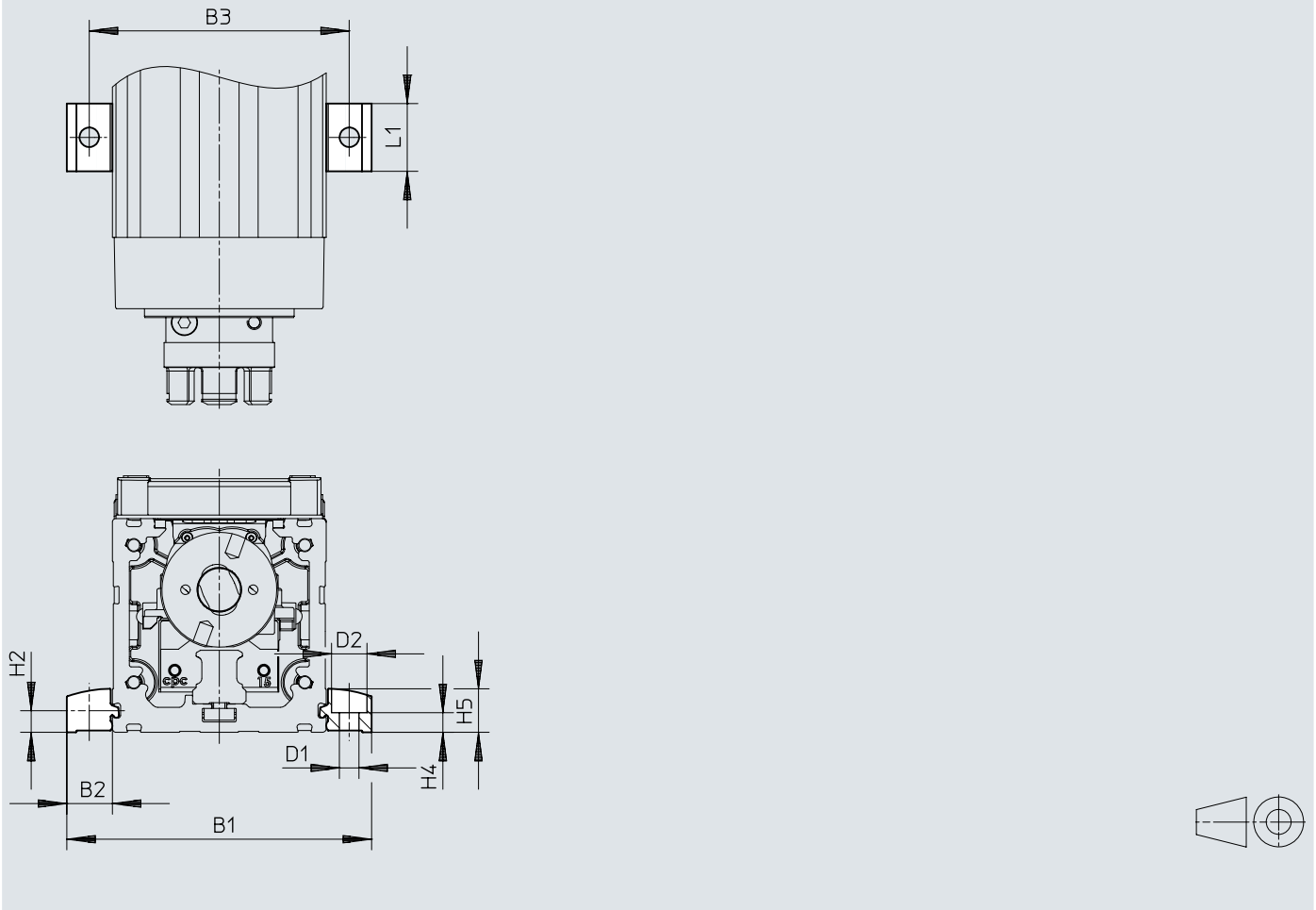
|               | L1  | L2   | L3   | T1 | T2 | T3   | T4 <sup>1)</sup> |
|---------------|-----|------|------|----|----|------|------------------|
|               |     | ±0,1 | ±0,1 |    |    | +0,1 |                  |
| ELGC-BS-KF-80 | 106 | 73   | 36   | 12 | 9  | 1,6  | 11 ... 14        |

1) Recommended screw-in depth

## Dimensions

Dimensions – Profile mounting EAHF-L2-...-P-S

Download CAD data → [www.festo.com](http://www.festo.com)

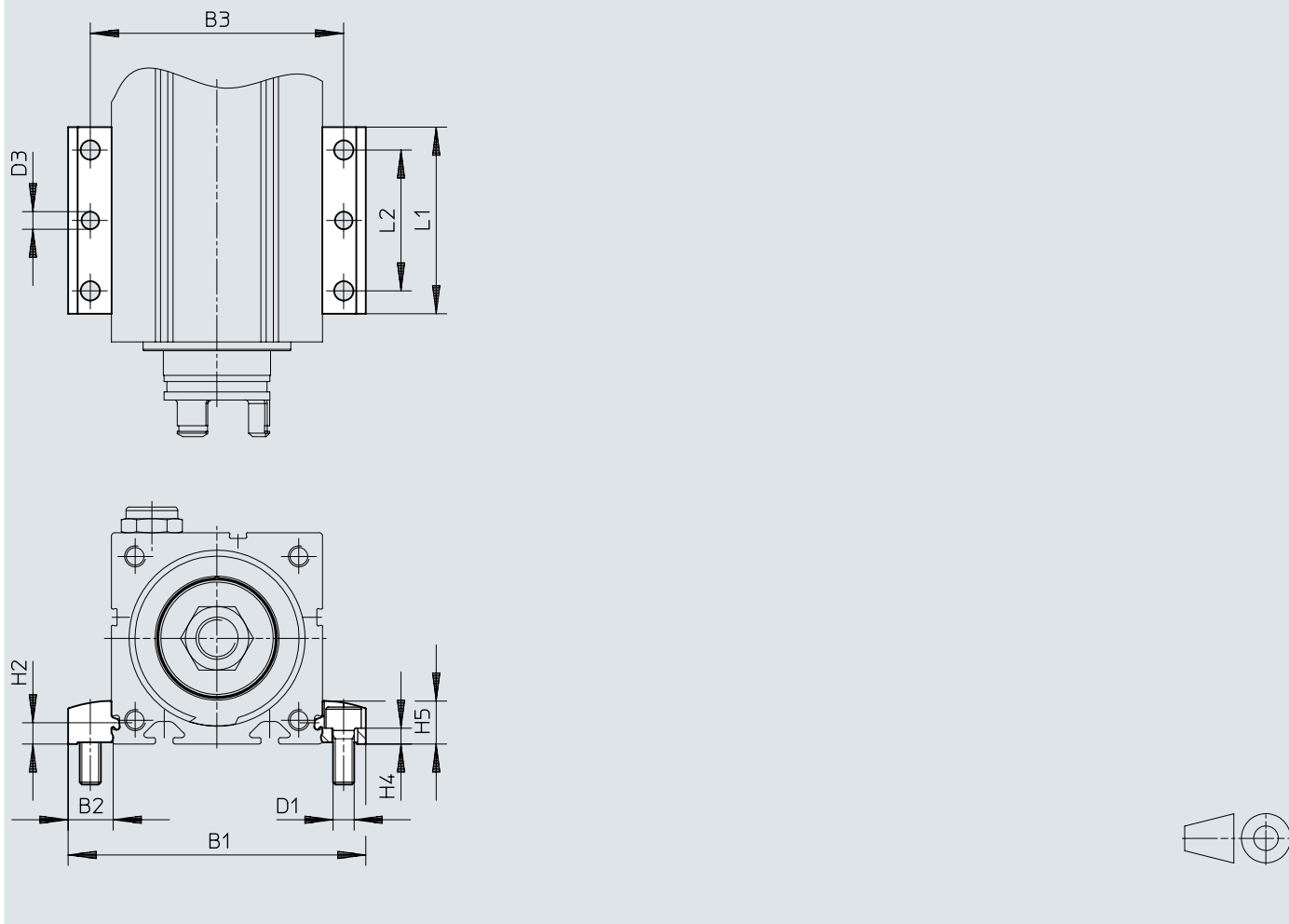


|                |               | B1    | B2   | B3 | D1<br>∅<br>H13 | D2<br>∅<br>H13 | H2  | H4<br>±0,1 | H5   | L1 |
|----------------|---------------|-------|------|----|----------------|----------------|-----|------------|------|----|
| EAHF-L2-25-P-S | ELGC-BS-KF-32 | 51,4  | 9,7  | 42 | 4,5            | 8              | 4,9 | 4,2        | 9    | 19 |
| EAHF-L2-45-P-S | ELGC-BS-KF-45 | 70,6  | 12,8 | 58 | 5,5            | 10             | 6,1 | 5,5        | 12,2 | 19 |
| EAHF-L2-45-P-S | ELGC-BS-KF-60 | 85,6  | 12,8 | 73 | 5,5            | 10             | 6,1 | 5,5        | 12,2 | 19 |
| EAHF-L2-45-P-S | ELGC-BS-KF-80 | 105,6 | 12,8 | 93 | 5,5            | 10             | 6,1 | 5,5        | 12,2 | 19 |

## Dimensions

Dimensions – Profile mounting EAHF-L2-...-P

Download CAD data → [www.festo.com](http://www.festo.com)

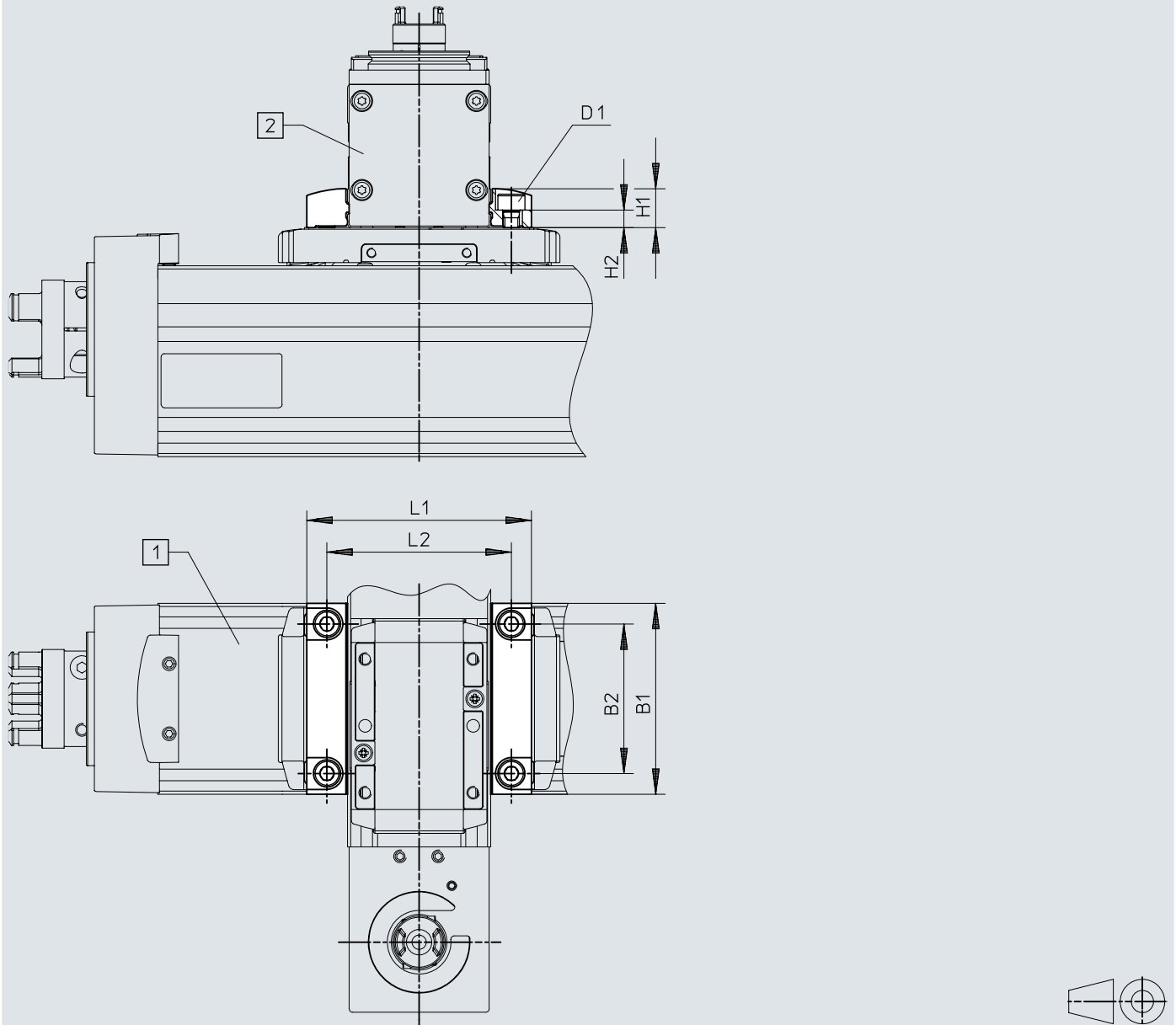


|              |               | B1    | B2   | B3 | D1<br>∅<br>H13 | D2<br>∅<br>H13 | D3<br>∅ | H2  | H4<br>±0,1 | H5   | L1 | L2 |
|--------------|---------------|-------|------|----|----------------|----------------|---------|-----|------------|------|----|----|
| EAHF-L2-25-P | ELGC-BS-KF-32 | 51,4  | 9,7  | 42 | 4,5            | 8              | 4       | 4,9 | 4,2        | 9    | 53 | 40 |
| EAHF-L2-45-P | ELGC-BS-KF-45 | 70,6  | 12,8 | 58 | 5,5            | 10             | 5       | 6,1 | 5,5        | 12,2 | 53 | 40 |
| EAHF-L2-45-P | ELGC-BS-KF-60 | 85,6  | 12,8 | 73 | 5,5            | 10             | 5       | 6,1 | 5,5        | 12,2 | 53 | 40 |
| EAHF-L2-45-P | ELGC-BS-KF-80 | 105,6 | 12,8 | 93 | 5,5            | 10             | 5       | 6,1 | 5,5        | 12,2 | 53 | 40 |

## Dimensions

Dimensions – Profile mounting EAHF-L2-...-P-D...

Download CAD data → [www.festo.com](http://www.festo.com)



[1] Base axis ELGC/ELGS/ELFC

[2] Assembly axis ELGC/ELGS/ELFC/EGSC

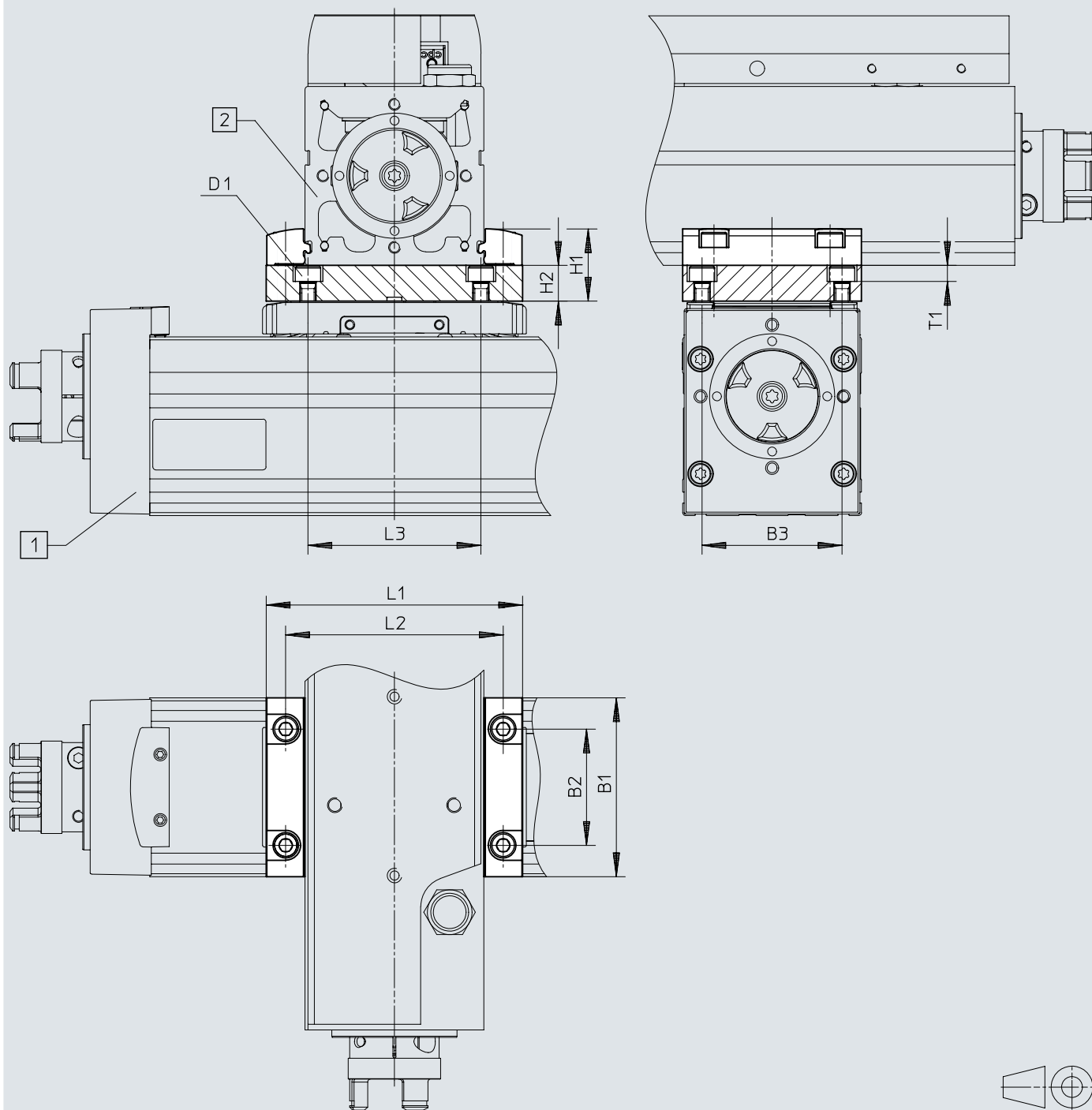
|                 | 1)    | B1 | B2   | D1 | H1   | H2<br>±0,1 | L1   | L2 |
|-----------------|-------|----|------|----|------|------------|------|----|
| EAHF-L2-25-P-D1 | 32/25 | 32 | 22,5 | M3 | 9    | 5,1        | 44,4 | 35 |
| EAHF-L2-25-P-D2 | 45/32 | 45 | 34   | M4 | 9    | 3,7        | 51,4 | 42 |
| EAHF-L2-45-P-D3 | 60/45 | 60 | 47   | M5 | 12,2 | 5,5        | 70,6 | 58 |
| EAHF-L2-45-P-D4 | 80/60 | 78 | 63   | M6 | 12,2 | 4,5        | 85,6 | 73 |

1) Base axis/assembly axis

## Dimensions

Dimensions – Adapter kit EHAA-D-L2

Download CAD data → [www.festo.com](http://www.festo.com)



[1] Base axis ELGC/ELGS/ELFC

[2] Assembly axis ELGC/ELGS/ELFC/EGSC

## Dimensions

|                    | 1)    | B1 | B3<br>±0,05 | D1 | H1   | H2 | L1   | L2 | L3 | T1  |
|--------------------|-------|----|-------------|----|------|----|------|----|----|-----|
| EHAA-D-L2-32-L2-32 | 32/25 | 32 | 22,5        | M3 | 19   | 10 | 44,4 | 35 | 35 | 4,2 |
| EHAA-D-L2-45-L2-45 | 45/32 | 45 | 34          | M4 | 19   | 10 | 51,4 | 42 | 42 | 5,4 |
| EHAA-D-L2-60-L2-60 | 60/45 | 60 | 47          | M5 | 24,2 | 12 | 70,6 | 58 | 58 | 5,4 |
| EHAA-D-L2-80-L2-80 | 80/60 | 78 | 63          | M6 | 24,2 | 12 | 85,6 | 73 | 73 | 6,4 |

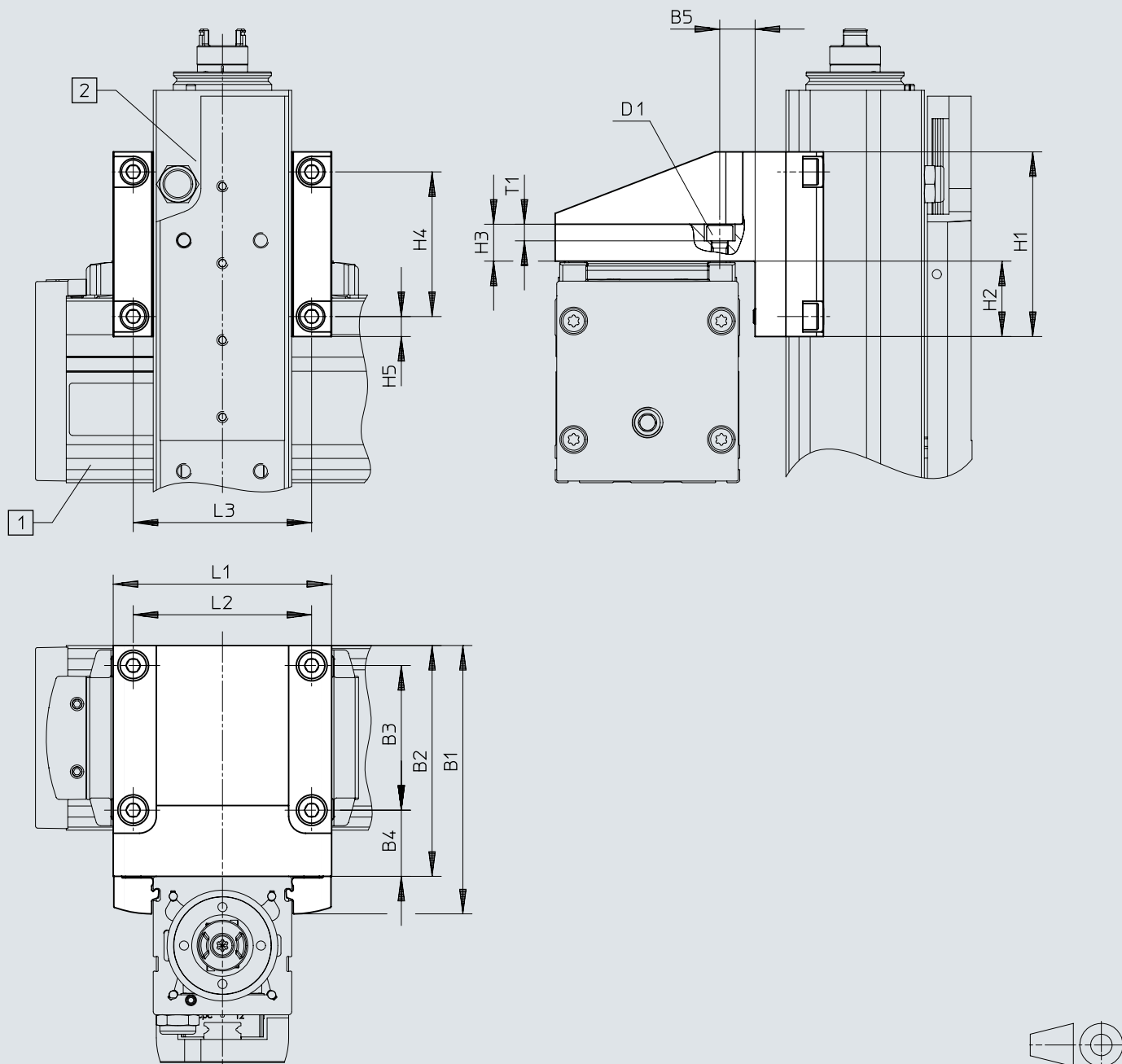
|                    | 1)    | B1 | B2   | B3<br>±0,05 | D1 | H1   | H2 | L1  | L2 | L3 | T1  |
|--------------------|-------|----|------|-------------|----|------|----|-----|----|----|-----|
| EHAA-D-L2-32-L2-32 | 32/32 | 32 | 14,5 | 22,5        | M3 | 19   | 10 | 52  | 42 | 35 | 4,2 |
| EHAA-D-L2-45-L2-45 | 45/45 | 45 | 32   | 34          | M4 | 22,2 | 10 | 71  | 58 | 42 | 5,4 |
| EHAA-D-L2-60-L2-60 | 60/60 | 60 | 39   | 47          | M5 | 24,2 | 12 | 86  | 73 | 58 | 5,4 |
| EHAA-D-L2-80-L2-80 | 80/80 | 78 | 63   | 63          | M6 | 24,2 | 12 | 106 | 93 | 73 | 6,4 |

1) Base axis/assembly axis

## Dimensions

Dimensions – Angle kit EHAA-D-L2-...-AP

Download CAD data → [www.festo.com](http://www.festo.com)



[1] Base axis ELGC/ELGS/ELFC

[2] Assembly axis ELGC/ELGS/ELFC/EGSC

Dimensions

|                       | 1)    | B1    | B2 | B3   | B4   | B5   | D1 | H1 | H2   |
|-----------------------|-------|-------|----|------|------|------|----|----|------|
| EHAA-D-L2-32-L2-25-AP | 32/25 | 53    | 44 | 22,5 | 16,8 | 8,8  | M3 | 32 | 11   |
| EHAA-D-L2-45-L2-32-AP | 45/32 | 69    | 60 | 34   | 20,5 | 11,5 | M4 | 45 | 17,5 |
| EHAA-D-L2-60-L2-45-AP | 60/45 | 87,2  | 75 | 47   | 21,5 | 11,5 | M5 | 60 | 24,5 |
| EHAA-D-L2-80-L2-60-AP | 80/60 | 107,2 | 95 | 63   | 23,5 | 13,5 | M6 | 78 | 33,5 |

|                       | 1)    | H3 | H4   | H5  | L1 | L2 | L3 | T1  |
|-----------------------|-------|----|------|-----|----|----|----|-----|
| EHAA-D-L2-32-L2-25-AP | 32/25 | 10 | 22,5 | 4,8 | 45 | 35 | 35 | 4,2 |
| EHAA-D-L2-45-L2-32-AP | 45/32 | 10 | 34   | 5,5 | 52 | 42 | 42 | 5,4 |
| EHAA-D-L2-60-L2-45-AP | 60/45 | 12 | 47   | 6,5 | 71 | 58 | 58 | 5,4 |
| EHAA-D-L2-80-L2-60-AP | 80/60 | 12 | 63   | 7,5 | 86 | 73 | 73 | 6,4 |

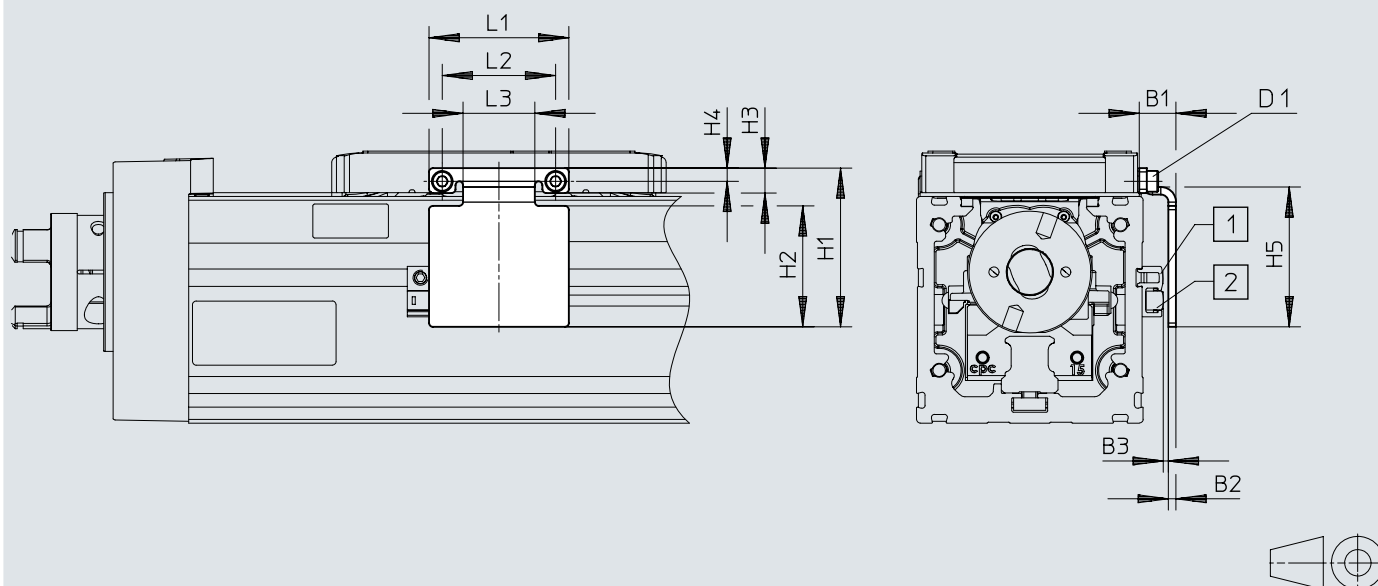
1) Base axis/assembly axis



## Dimensions

### Dimensions – Switch lug EAPM-L2-SLS

Download CAD data → [www.festo.com](http://www.festo.com)



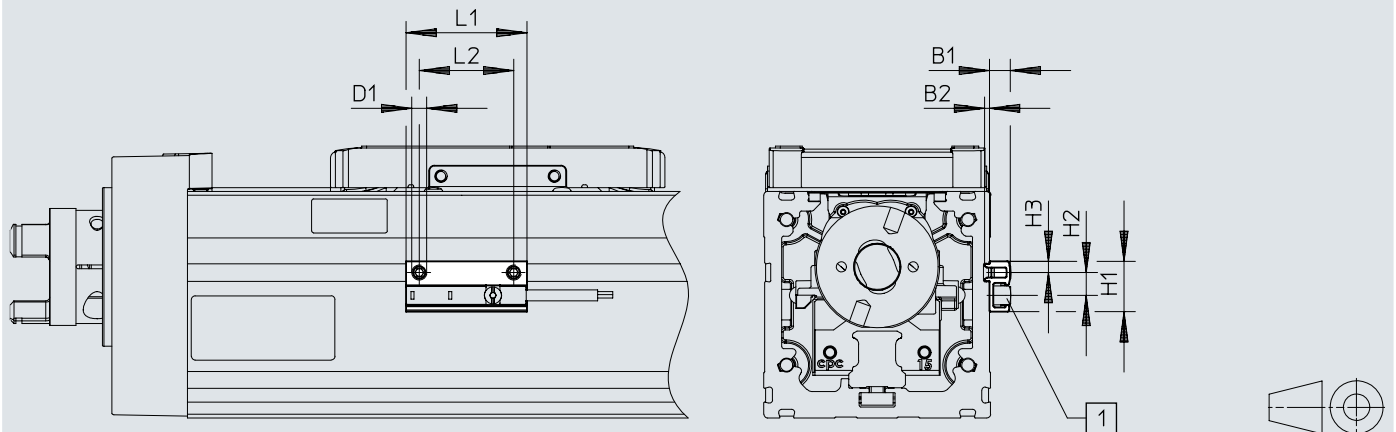
- [1] Sensor bracket
- [2] Proximity switch

|                | B1  | B2 | B3       | D1   | H1<br>±0,2 | H2 | H3  | H4  | H5<br>±0,2 | L1<br>±0,2 | L2<br>±0,15 | L3   |
|----------------|-----|----|----------|------|------------|----|-----|-----|------------|------------|-------------|------|
| EAPM-L2-32-SLS | 9,2 | 2  | 1,0±0,31 | M1,6 | 27         | 19 | 4,3 | 2,5 | 24         | 22         | 18          | 10   |
| EAPM-L2-45-SLS | 9,4 | 2  | 1,2±0,31 | M2   | 37         | 28 | 5,5 | 3,3 | 33         | 30         | 24          | 14   |
| EAPM-L2-60-SLS | 9,7 | 2  | 1,3±0,31 | M3   | 37         | 32 | 6,6 | 3,5 | 37         | 42         | 30          | 19   |
| EAPM-L2-80-SLS | 9,5 | 2  | 1,1±0,32 | M4   | 53,5       | 42 | 8,3 | 4,5 | 47         | 44,6       | 36          | 23,4 |

## Dimensions

### Dimensions – Sensor bracket EAPM-L2-SH


Download CAD data → [www.festo.com](http://www.festo.com)



[1] Proximity switch

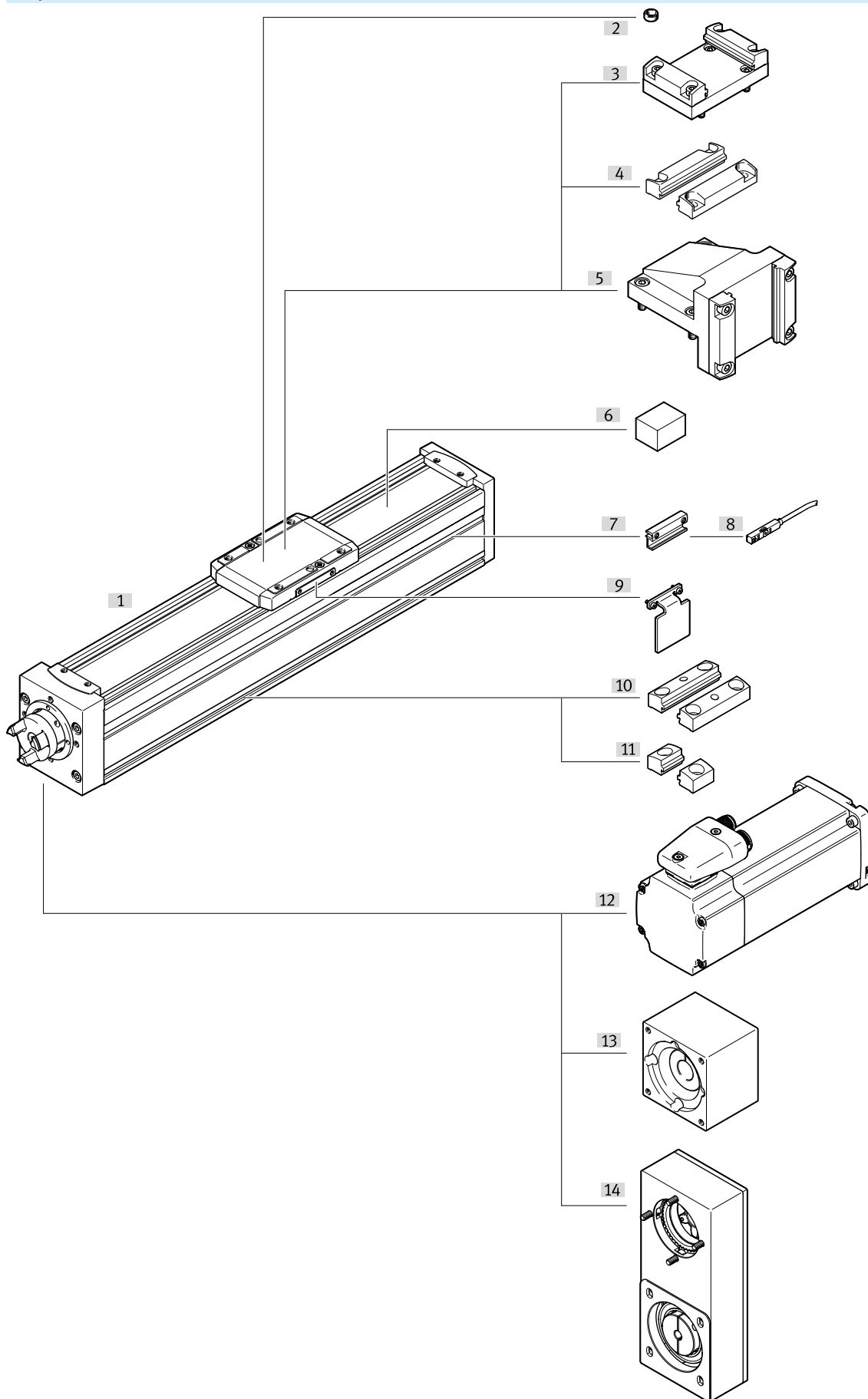
|            | B1  | B2  | D1 | H1   | H2 | H3 | L1 | L2 |
|------------|-----|-----|----|------|----|----|----|----|
| EAPM-L2-SH | 5,5 | 1,3 | M4 | 13,4 | 6  | 3  | 32 | 25 |

## Ordering data

| with recirculating ball bearing guide   |      |               |                |                        |                       |
|---|------|---------------|----------------|------------------------|-----------------------|
|   | Size | Spindle pitch | Working stroke | Part no.               | Type                  |
|  | 32   | 8 mm/U        | 100 mm         | 8061477                | ELGC-BS-KF-32-100-8P  |
|   |      |               | 200 mm         | 8061478                | ELGC-BS-KF-32-200-8P  |
|   |      |               | 300 mm         | 8061479                | ELGC-BS-KF-32-300-8P  |
|   |      |               | 400 mm         | 8061480                | ELGC-BS-KF-32-400-8P  |
|   |      |               | 500 mm         | 8061481                | ELGC-BS-KF-32-500-8P  |
|   |      |               | 600 mm         | 8061482                | ELGC-BS-KF-32-600-8P  |
|   |      |               | 800 mm         | 8061483                | ELGC-BS-KF-32-800-8P  |
|   | 45   | 10 mm/U       | 100 mm         | 8061484                | ELGC-BS-KF-45-100-10P |
|   |      |               | 200 mm         | 8061485                | ELGC-BS-KF-45-200-10P |
|   |      |               | 300 mm         | 8061486                | ELGC-BS-KF-45-300-10P |
|   |      |               | 400 mm         | 8061487                | ELGC-BS-KF-45-400-10P |
|   |      |               | 500 mm         | 8061488                | ELGC-BS-KF-45-500-10P |
|   |      |               | 600 mm         | 8061489                | ELGC-BS-KF-45-600-10P |
|   |      |               | 800 mm         | 8061490                | ELGC-BS-KF-45-800-10P |
|   | 60   | 12 mm/U       | 100 mm         | 8061491                | ELGC-BS-KF-60-100-12P |
|   |      |               | 200 mm         | 8061492                | ELGC-BS-KF-60-200-12P |
|   |      |               | 300 mm         | 8061493                | ELGC-BS-KF-60-300-12P |
|   |      |               | 400 mm         | 8061494                | ELGC-BS-KF-60-400-12P |
|   |      |               | 500 mm         | 8061495                | ELGC-BS-KF-60-500-12P |
|   |      |               | 600 mm         | 8061496                | ELGC-BS-KF-60-600-12P |
|   |      |               | 800 mm         | 8061497                | ELGC-BS-KF-60-800-12P |
|   | 80   | 16 mm/U       | 100 mm         | 8061498                | ELGC-BS-KF-80-100-16P |
|   |      |               | 200 mm         | 8061499                | ELGC-BS-KF-80-200-16P |
|   |      |               | 300 mm         | 8061500                | ELGC-BS-KF-80-300-16P |
|   |      |               | 400 mm         | 8061501                | ELGC-BS-KF-80-400-16P |
|   |      |               | 500 mm         | 8061502                | ELGC-BS-KF-80-500-16P |
|   |      |               | 600 mm         | 8061503                | ELGC-BS-KF-80-600-16P |
|   |      |               | 800 mm         | 8061504                | ELGC-BS-KF-80-800-16P |
| 1,000 mm  |      |               | 8061505        | ELGC-BS-KF-80-1000-16P |                       |

# Peripherals

## Peripherals overview

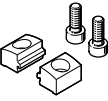


## Peripherals

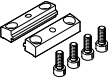
| Accessories                           |   | → Page/Internet |
|---------------------------------------|---|-----------------|
| Type/order code                       | Description   |                 |
| [1] Spindle axis ELGC-BS-KF           | Electric drive  | elgc-bs         |
| [2] Centring sleeve ZBS               | For centring loads and attachments on the slide   | 31              |
| [2] Centring sleeve ZBH               | For centring loads and attachments on the slide   | 31              |
| [3] Adapter kit EHAA-D-L2             | - For axis/axis mounting with adapter plate<br>- Mounting option: Base axis with either same size or one-size-down assembly axis<br>- When assembling the motor with parallel kits, interfering contours may occur. In this case, the adapter plate is required for height compensation | 30              |
| [4] Profile mounting EAHF-L2-...-P-D  | - For axis/axis mounting without adapter plate<br>- Mounting option: Base axis with one-size-down assembly axis   | 30              |
| [5] Angle kit EHAA-D-L2-...-AP        | For mounting one-size-down vertical axes (assembly axes) on base axes with mounting position “slide at top”   | 30              |
| [6] Clamping element EADT-S-L5        | Tool for retensioning the cover strip   | 31              |
| [7] Sensor bracket EAPM-L2-SH         | For mounting the proximity switches on the axis. The proximity switches can only be mounted using the sensor bracket  | 31              |
| [8] Proximity switch SIES-8           | Inductive proximity sensors, for T-slot 27  | 32              |
| [8] Proximity switch SMT-8            | Magnetic proximity switches, for T-slot   | 32              |
| [9] Switch lug EAPM-L2-...-SLS        | For sensing the slide position in conjunction with inductive proximity sensors SIES   | 30              |
| [10] Profile mounting EAHF-L2-...-P   | For mounting the axis on the side of the profile. The profile mounting can be attached to the mounting surface using the drilled hole in the centre   | 30              |
| [11] Profile mounting EAHF-L2-...-P-S | For mounting the axis on the side of the profile  | 30              |
| [12] Motor EMME-AS                    | Motors and kits specially matched with the axis<br>Detailed information: <a href="http://www.festo.com/catalogue/eamm">www.festo.com/catalogue/eamm</a><br>Engineering tool: <a href="http://www.festo.com/x/electric-motion-sizing">www.festo.com/x/electric-motion-sizing</a>         | emme-as         |
| [12] Motor EMMS-ST                    | Motors and kits specially matched with the axis<br>Detailed information: <a href="http://www.festo.com/catalogue/eamm">www.festo.com/catalogue/eamm</a><br>Engineering tool: <a href="http://www.festo.com/x/electric-motion-sizing">www.festo.com/x/electric-motion-sizing</a>         | emms-st         |
| [12] Motor EMMT-AS                    | Motors and kits specially matched with the axis<br>Detailed information: <a href="http://www.festo.com/catalogue/eamm">www.festo.com/catalogue/eamm</a><br>Engineering tool: <a href="http://www.festo.com/x/electric-motion-sizing">www.festo.com/x/electric-motion-sizing</a>         | emmt-as         |
| [13] Axial kit EAMM-A                 | For axial motor mounting<br>More detailed information → <a href="http://www.festo.com/x/electric-motion-sizing">www.festo.com/x/electric-motion-sizing</a>  | eamm-a          |
| [14] Parallel kit EAMM-U              | For parallel motor mounting   | eamm-u          |

## Accessories


### Profile mounting EAHF-L2-...-P-S

|  | Description         | Suitability for the production of Li-ion batteries | Material plate                   | Product weight | Part no.       | Type                  |
|--|---------------------|--|----------------------------------|----------------|----------------|-----------------------|
|  | For size 32         | F1a  | Anodised wrought aluminium alloy | 4 g            | <b>5183153</b> | <b>EAHF-L2-25-P-S</b> |
|  | For size 45, 60, 80 |  |                                  | 6 g            | <b>5184133</b> | <b>EAHF-L2-45-P-S</b> |

### Profile mounting EAHF-L2-...-P

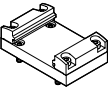
|  | Description         | Suitability for the production of Li-ion batteries | Material plate                   | Product weight | Part no.       | Type                |
|--|---------------------|--|----------------------------------|----------------|----------------|---------------------|
|  | For size 32         | F1a  | Anodised wrought aluminium alloy | 19 g           | <b>4835684</b> | <b>EAHF-L2-25-P</b> |
|  | For size 45, 60, 80 |  |                                  | 35 g           | <b>4835728</b> | <b>EAHF-L2-45-P</b> |

### Profile mounting EAHF-L2-...-P-D...

|   | Description <sup>1)</sup> | Suitability for the production of Li-ion batteries | Material plate                   | Product weight | Part no.       | Type                   |
|---|---------------------------|--|----------------------------------|----------------|----------------|------------------------|
|  | For size 32/25            | F1a  | Anodised wrought aluminium alloy | 16 g           | <b>4759753</b> | <b>EAHF-L2-25-P-D1</b> |
|   | For size 45/32            |  |                                  | 24 g           | <b>4759748</b> | <b>EAHF-L2-25-P-D2</b> |
|   | For size 60/45            |  |                                  | 56 g           | <b>4759739</b> | <b>EAHF-L2-45-P-D3</b> |
|   | For size 80/60            |  |                                  | 77 g           | <b>4759726</b> | <b>EAHF-L2-45-P-D4</b> |

1) Base axis/assembly axis

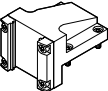
### Adapter kit EHAA-D-L2

|  | Description <sup>1)</sup> | Product weight | Part no.       | Type                      |
|--|---------------------------|----------------|----------------|---------------------------|
|  | For size 32/25            | 60 g           | <b>8066713</b> | <b>EHAA-D-L2-32-L2-32</b> |
|  | For size 45/32            | 136 g          | <b>8066714</b> | <b>EHAA-D-L2-45-L2-45</b> |
|  | For size 60/45            | 205 g          | <b>8066715</b> | <b>EHAA-D-L2-60-L2-60</b> |
|  | For size 80/60            | 315 g          | <b>8066716</b> | <b>EHAA-D-L2-80-L2-80</b> |

1) Base axis/assembly axis

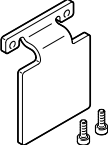
When motors are mounted using parallel kits, interfering contours may occur. In this case, the adapter plate is required for height compensation.

### Angle kit EHAA-D-L2-...-AP


|  | Description <sup>1)</sup> | Product weight | Part no.       | Type                         |
|--|---------------------------|----------------|----------------|------------------------------|
|  | For size 32/25            | 107 g          | <b>8066717</b> | <b>EHAA-D-L2-32-L2-25-AP</b> |
|  | For size 45/32            | 222 g          | <b>8066718</b> | <b>EHAA-D-L2-45-L2-32-AP</b> |
|  | For size 60/45            | 433 g          | <b>8066719</b> | <b>EHAA-D-L2-60-L2-45-AP</b> |
|  | For size 80/60            | 768 g          | <b>8066720</b> | <b>EHAA-D-L2-80-L2-60-AP</b> |


1) Base axis/assembly axis


### Switch lug EAPM-L2-SLS


|  | Description | Suitability for the production of Li-ion batteries | Product weight | Part no.       | Type                  |
|--|-------------|--|----------------|----------------|-----------------------|
|  | For size 32 | F1a  | 10 g           | <b>8067259</b> | <b>EAPM-L2-32-SLS</b> |


## Accessories


| Switch lug EAPM-L2-SLS  |             |  |                |          |                |  |
|---|-------------|--|----------------|----------|----------------|--|
|   | Description | Suitability for the production of Li-ion batteries | Product weight | Part no. | Type           |  |
|  | For size 45 | F1a  | 18 g           | 8067260  | EAPM-L2-45-SLS |  |
|   | For size 60 |  | 27 g           | 8067261  | EAPM-L2-60-SLS |  |
|   | For size 80 |  | 42 g           | 8067262  | EAPM-L2-80-SLS |  |

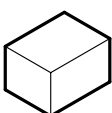
| Sensor bracket EAPM-L2-SH   |                         |  |                                  |                |           |            |
|---|-------------------------|--|----------------------------------|----------------|-----------|------------|
|   | Description             | Suitability for the production of Li-ion batteries | Material sensor bracket          | Product weight | Part no.  | Type       |
|  | For size 32, 45, 60, 80 | F1a  | Anodised wrought aluminium alloy | 4 g            | ★ 4759852 | EAPM-L2-SH |

| Centring pin ZBS-2   |             |                 |              |                |          |       |
|--|-------------|-----------------|--------------|----------------|----------|-------|
|  | Description | Material sleeve | Size of pack | Product weight | Part no. | Type  |
|  | For size 32 | Steel           |              | 1 g            | 525273   | ZBS-2 |


| Centring pin ZBS-4  |             |                            |              |                |          |       |
|---|-------------|----------------------------|--------------|----------------|----------|-------|
|   | Description | Material sleeve            | Size of pack | Product weight | Part no. | Type  |
|  | For size 45 | High-alloy stainless steel | 10           | 0.5 g          | 562959   | ZBS-4 |


| Centring sleeve ZBH-5   |             |                 |              |                |          |         |
|---|-------------|-----------------|--------------|----------------|----------|---------|
|   | Description | Material sleeve | Size of pack | Product weight | Part no. | Type    |
|  | For size 60 | Steel           | 10           | 1 g            | 8146543  | ZBH-5-B |

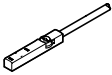
| Centring sleeve ZBH-7   |             |                 |              |                |          |         |
|---|-------------|-----------------|--------------|----------------|----------|---------|
|   | Description | Material sleeve | Size of pack | Product weight | Part no. | Type    |
|  | For size 80 | Steel           | 10           | 1 g            | 8146544  | ZBH-7-B |

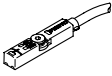
| Clamping element EADT   |  |                           |                |          |              |  |
|---|--|---------------------------|----------------|----------|--------------|--|
|   | Description  | Material clamping element | Product weight | Part no. | Type         |  |
|  | For size 32, 45, Tool for retensioning the cover strip | NBR                       | 12 g           | 8065818  | EADT-S-L5-32 |  |
|   | for size 60, Tool for retensioning the cover strip     |                           | 50 g           | 8058451  | EADT-S-L5-70 |  |


## Accessories

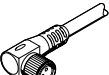
| Push-in fitting QSM-M5   |   |                      |              |                |          |              |
|--|---|----------------------|--------------|----------------|----------|--------------|
|  | Description                             | Material housing     | Size of pack | Product weight | Part no. | Type         |
|  | For size 32, For sealing air connection | Brass, nickel-plated | 10           | 3 g            | 133004   | QSM-M5-4-I-R |
|  |   |                      |              | 3.2 g          | 133003   | QSM-M5-3-I-R |

| Push-in fitting QSM-G1/8   |   |                      |              |                |          |              |
|--|---|----------------------|--------------|----------------|----------|--------------|
|  | Description                                     | Material housing     | Size of pack | Product weight | Part no. | Type         |
|  | For size 45, 60, 80, For sealing air connection | Brass, nickel-plated | 10           | 8.9 g          | ★ 186266 | QSM-G1/8-4-I |
|  |   |                      |              | 9.5 g          | ★ 186267 | QSM-G1/8-6-I |

| Proximity switch SIES for T-slot, inductive                                      |                  |                            |   |              |                         | Further information → sies-8m |
|--|------------------|----------------------------|---|--------------|-------------------------|-------------------------------|
|  | Switching output | Switching element function | Electrical connection 1, connector system | Cable length | Part no.                | Type                          |
|  | NPN              | N/C contact                | M8x1, A-coded, to EN 61076-2-104          | 0.3 m        | ★ 551402                | SIES-8M-NO-24V-K-0,3-M8D      |
|  |                  |                            | Open end                                  | 7.5 m        | ★ 551401                | SIES-8M-NO-24V-K-7,5-OE       |
|  |                  | N/O contact                | M8x1, A-coded, to EN 61076-2-104          | 0.3 m        | 551397                  | SIES-8M-NS-24V-K-0,3-M8D      |
|  | PNP              | N/C contact                | M8x1, A-coded, to EN 61076-2-104          | 0.3 m        | ★ 551392                | SIES-8M-PO-24V-K-0,3-M8D      |
|  |                  |                            | Open end                                  | 7.5 m        | ★ 551391                | SIES-8M-PO-24V-K-7,5-OE       |
|  |                  | N/O contact                | M8x1, A-coded, to EN 61076-2-104          | 0.3 m        | 551387                  | SIES-8M-PS-24V-K-0,3-M8D      |
|  |                  | Open end                   | 7.5 m                                     | 551386       | SIES-8M-PS-24V-K-7,5-OE |                               |

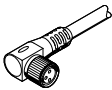
| Proximity switch SMT for T-slot, magneto-resistive                                 |  |                        |                       |              |          | Further information → smt-8m |
|--|--|------------------------|-----------------------|--------------|----------|------------------------------|
|  | Type of mounting                                 | Switching output       | Electrical connection | Cable length | Part no. | Type                         |
|  | Screw-clamped, Insertable in the slot from above | 3-wire PNP N/C contact | Open end              | 7.5 m        | ★ 574340 | SMT-8M-A-PO-24V-E-7,5-OE     |
|  |  |                        |                       | 2.5 m        | ★ 574335 | SMT-8M-A-PS-24V-E-2,5-OE     |
|  |  | 3-wire PNP N/O contact | Plug M8, A-coded      | 0.3 m        | ★ 574334 | SMT-8M-A-PS-24V-E-0,3-M8D    |

| Connecting cables NEBU, straight   |   |   |  |              |          |                     |
|--|---|---|--|--------------|----------|---------------------|
|  | Electrical connection 1, connector system | Electrical connection 2, connector system | Electrical connection 2, number of connections/cores | Cable length | Part no. | Type                |
|  | M8x1, A-coded, to EN 61076-2-104          | Open end                                  | 3  | 2.5 m        | 541333   | NEBU-M8G3-K-2.5-LE3 |
|  |   |   |  | 5 m          | 541334   | NEBU-M8G3-K-5-LE3   |

| Connecting cables NEBU, angled   |   |   |  |              |          |                     |
|--|---|---|--|--------------|----------|---------------------|
|  | Electrical connection 1, connector system | Electrical connection 2, connector system | Electrical connection 2, number of connections/cores | Cable length | Part no. | Type                |
|  | M8x1, A-coded, to EN 61076-2-104          | Open end                                  | 3  | 2.5 m        | 541338   | NEBU-M8W3-K-2.5-LE3 |



## Accessories

| Connecting cables NEBU, angled  |   |   |  |              |          |                   |
|---|---|---|--|--------------|----------|-------------------|
|   | Electrical connection 1, connector system | Electrical connection 2, connector system | Electrical connection 2, number of connections/cores | Cable length | Part no. | Type              |
|  | M8x1, A-coded, to EN 61076-2-104          | Open end                                  | 3  | 5 m          | 541341   | NEBU-M8W3-K-5-LE3 |