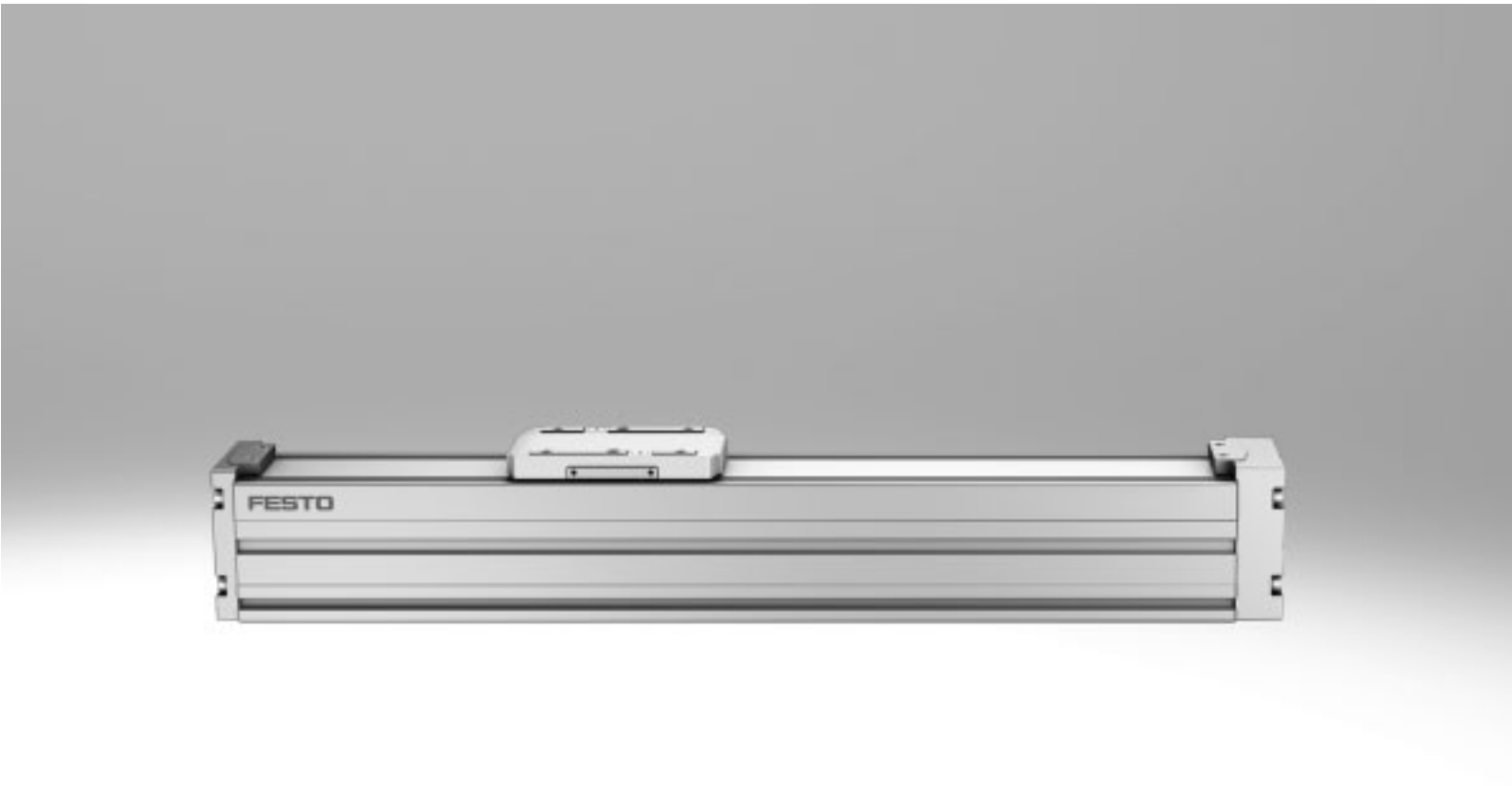
Guide axes ELFC, without drive



New

Guide axes ELFC, without drive

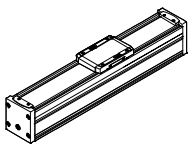
Key features

At a glance

- Driveless linear guide units with guide and freely movable slide
- The guide axis is designed to support force and torque capacity in multi-axis applications
- Higher torsional resistance
- Reduced vibrations with dynamic loads
- Drive axis and guide axis can be placed adjacent to or above one another
- Two position sensing functions can be selected:
  - With magneto-resistive proximity sensors SMT-8M (detection via integrated magnets)
  - With inductive proximity sensors SIES-8M (detection through switch lug EAPM)

Characteristic values of the axes

The specifications shown in the table are maximum values.
The precise values for each of the variants can be found in the relevant technical data section.

Version	Can be combined with	Size	Working stroke [mm]	Guide characteristics				
				Forces and torques				
				Fy [N]	Fz [N]	Mx [Nm]	My [Nm]	Mz [Nm]
Recirculating ball bearing guide								
	Toothed belt axis ELGC-TB-KF Spindle axis ELGC-BS-KF	32	100, 200, 300, 400, 500, 600, 800	356	356	1.3	1.1	1.1
		45	100, 200, 300, 400, 500, 600, 800, 1000, 1200, 1500	880	880	5.5	4.7	4.7
		60	100, 200, 300, 400, 500, 600, 800, 1000, 1200, 1500, 1800, 2000	3641	3641	29.1	31.8	31.8
		80	100, 200, 300, 400, 500, 600, 800, 1000, 1200, 1500, 1800, 2000	5543	5543	59.8	56.2	56.2

Guide axes and the corresponding axes

Guide axis EGC-FA

- Can be combined with:
  - Toothed belt axis EGC-TB
  - Spindle axis EGC-BS
- For size 70 ... 185
- Load capacity up to max. 15200 N or 1157 Nm

Guide axis ELFA

- Can be combined with:
  - Toothed belt axis ELGA-TB-KF, ELGA-TB-RF
  - Spindle axis EGC-BS-KF
- For size 70 ... 120
- Load capacity up to max. 6890 N or 680 Nm

Guide axis ELFR

- Can be combined with:
  - Toothed belt axis ELGR
- For size 35 ... 55
- Load capacity up to max. 300 N or 124 Nm

Guide axis DGC-FA

- Can be combined with:
  - Linear drive DGC-KF
- For size 8 ... 63
- Load capacity up to max. 15200 N or 1157 Nm

Guide axes ELFC, without drive

Key features

Combination matrix between axis ELGC-TB, ELGC-BS, mini slide EGSC-BS and guide axis ELFC

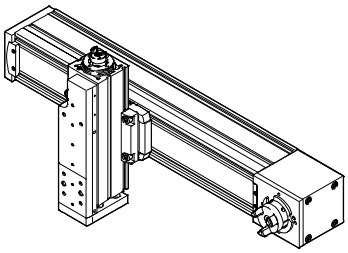
With profile mounting EAHF-L2-...-P-D...

- For axis/axis mounting without adapter plate
- Mounting option: base axis with the next smallest assembly axis

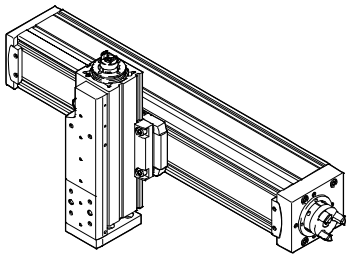
		Assembly axis ELGC-BS/-TB; ELFC; EGSC-BS			
	Size	25	32	45	60
Base axis ELGC-BS/-TB; ELFC	32	■	–	–	–
	45	–	■	–	–
	60	–	–	■	–
	80	–	–	–	■

Sample applications

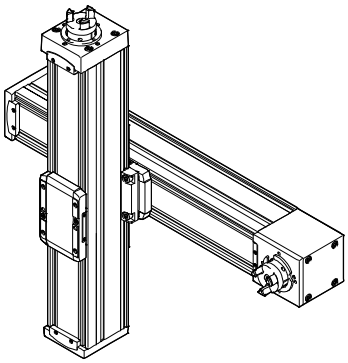
Toothed belt axis ELGC-TB – Mini slide EGSC-BS

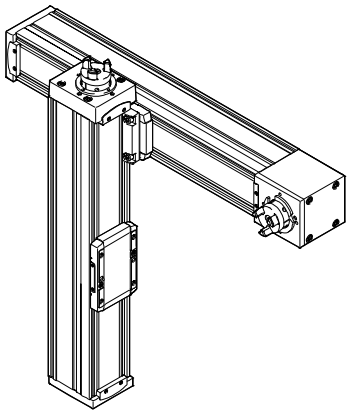


Spindle axis ELGC-BS – Mini slide EGSC-BS



Toothed belt axis ELGC-TB – Spindle axis ELGC-BS





New

Guide axes ELFC, without drive

Key features

Combination matrix between axis ELGC-TB, ELGC-BS, mini slide EGSC-BS and guide axis ELFC

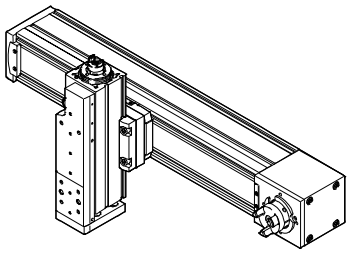
With adapter kit EHAA-D-L2

- For axis/axis mounting with adapter plate
- Mounting option: base axis with the same size or next smallest assembly axis
- When motors are assembled using parallel kits, interfering contours may occur. In this case, the adapter plate is required for height compensation (download CAD data ➔ www.festo.com)

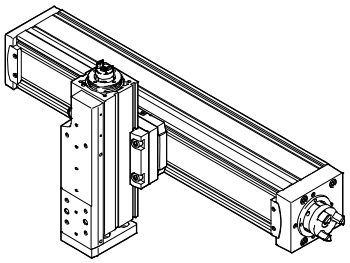
		Assembly axis ELGC-BS/-TB; ELFC; EGSC-BS				
	Size	25	32	45	60	80
Base axis ELGC-BS/-TB; ELFC	32	■		–	–	–
	45	–	■		–	–
	60	–	–	■		–
	80	–	–	–	■	

Sample applications

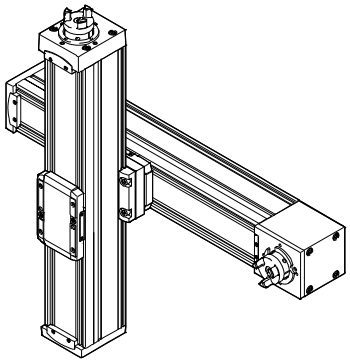
Toothed belt axis ELGC-TB – Mini slide EGSC-BS

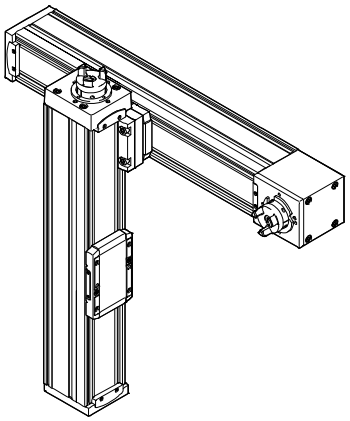


Spindle axis ELGC-BS – Mini slide EGSC-BS



Toothed belt axis ELGC-TB – Spindle axis ELGC-BS





Guide axes ELFC, without drive

Key features

Combination matrix between axis ELGC-TB, ELGC-BS, mini slide EGSC-BS and guide axis ELFC

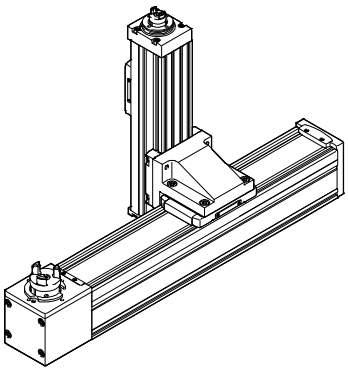
With angle kit EHAA-D-L2-...-AP

- For mounting the next smallest vertical axes (assembly axes) on base axes with mounting position “slide at top”

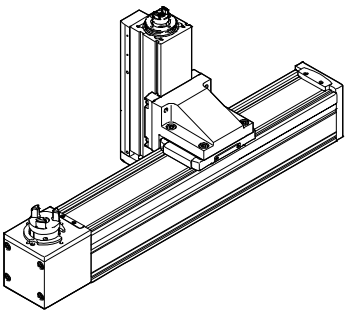
		Assembly axis ELGC-BS/-TB; ELFC; EGSC-BS			
	Size	25	32	45	60
Base axis ELGC-BS/-TB; ELFC	32	■	–	–	–
	45	–	■	–	–
	60	–	–	■	–
	80	–	–	–	■

Sample applications

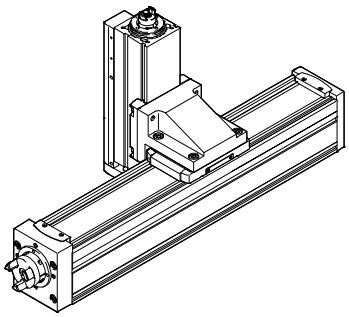
Toothed belt axis ELGC-TB – Spindle axis ELGC-BS



Toothed belt axis ELGC-TB – Mini slide EGSC-BS

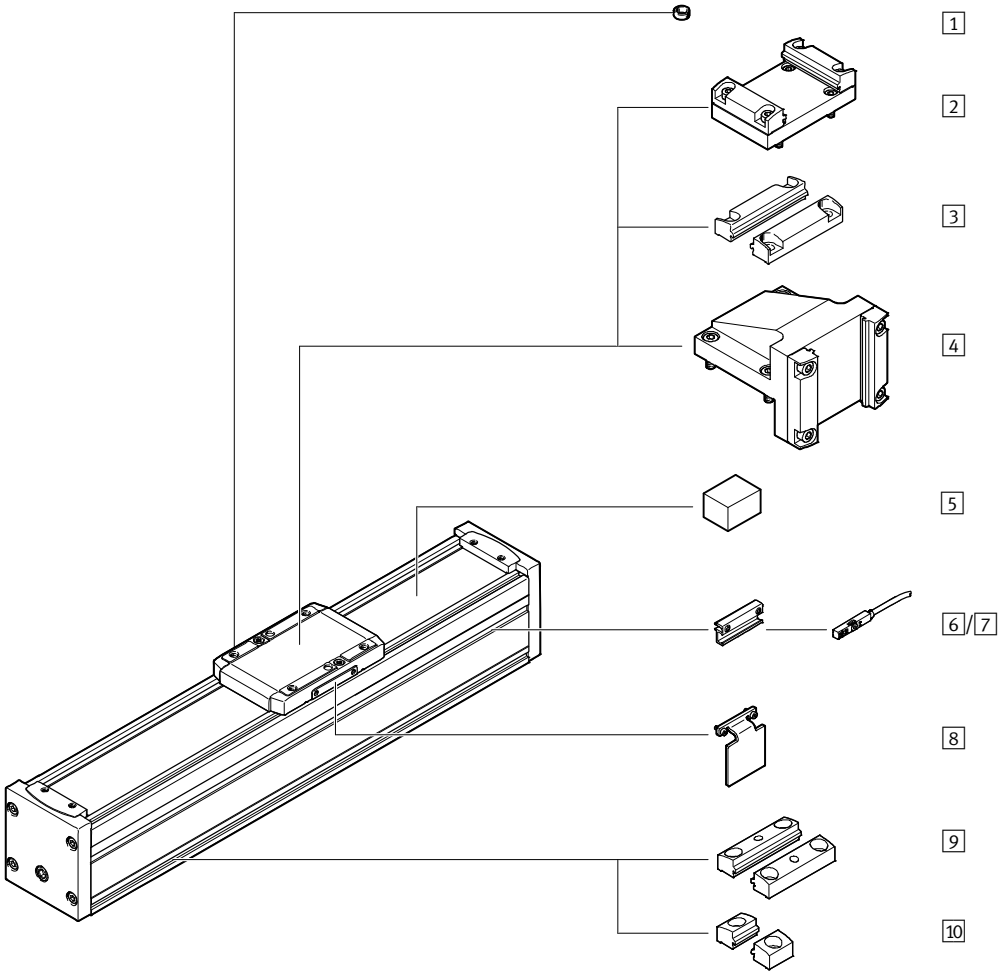


Spindle axis ELGC-BS – Mini slide EGSC-BS



Guide axes ELFC, without drive

Peripherals overview



Guide axes ELFC, without drive

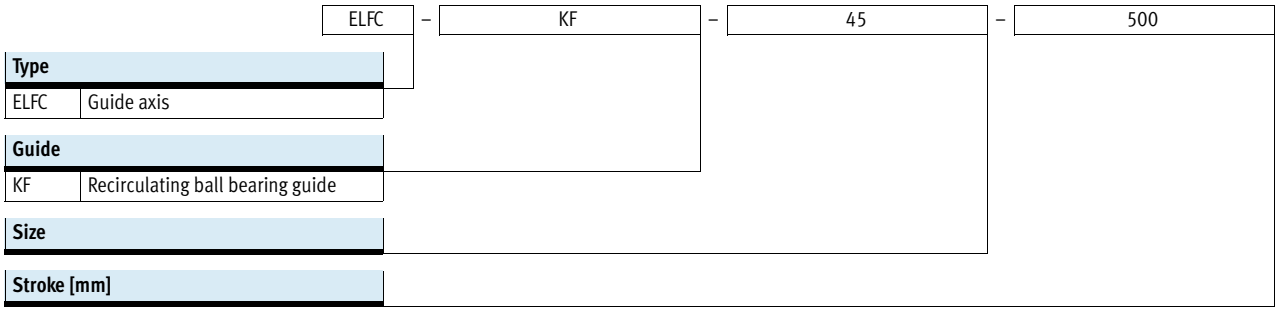
Peripherals overview

Accessories			
	Type	Description	➔ Page/Internet
1	Centring pin/sleeve ZBS/ZBH	For centring loads and attachments on the slide	24
2	Adapter kit EHAA-D-L2	• For axis/axis mounting with adapter plate • Mounting option: base axis with the same size or next smallest assembly axis (➔ page 4) • When motors are assembled using parallel kits, interfering contours may occur. In this case, the adapter plate is required for height compensation (download CAD data ➔ www.festo.com)	21
3	Profile mounting EAHF-L2-...-P-D...	• For axis/axis mounting without adapter plate • Mounting option: base axis with the next smallest assembly axis (➔ page 3)	20
4	Angle kit EHAA-D-L2-...-AP	For mounting the next smallest vertical axes (assembly axes) on base axes with mounting position “slide at top” (➔ page 5)	22
5	Clamping element EADT-S-L5-32	Tool for retensioning the cover strip	24
6	Sensor bracket EAPM-L2-SH	For mounting the proximity sensors on the axis. The proximity sensors can only be mounted using the sensor bracket	23
7	Proximity sensor SIES-8M	Inductive proximity sensor, for T-slot	24
	Proximity sensor SMT-8M	Magnetic proximity sensor, for T-slot	24
8	Switch lug EAPM-L2-...-SLS	For sensing the slide position in conjunction with inductive proximity sensors SIES-8M	19
9	Profile mounting EAHF-L2-...-P	For mounting the axis on the side of the profile. The profile mounting can be fixed in place on the mounting surface using the drill hole in the centre	19
10	Profile mounting EAHF-L2-...-P-S	For mounting the axis on the side of the profile	18

New

Guide axes ELFC, without drive

Type codes

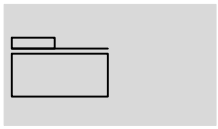


Guide axes ELFC, without drive

Technical data

FESTO

Function



Size
32 ... 80

Stroke length
100 ... 2000 mm

General technical data					
Size		32	45	60	80
Design		Guide			
Guide		Recirculating ball bearing guide			
Mounting position		Any			
Working stroke	[mm]	100, 200, 300, 400, 500, 600, 800	100, 200, 300, 400, 500, 600, 800, 1000, 1200, 1500	100, 200, 300, 400, 500, 600, 800, 1000, 1200, 1500, 1800, 2000	100, 200, 300, 400, 500, 600, 800, 1000, 1200, 1500, 1800, 2000
Max. displacement force	[N]	2	4.5	6.75	15
Max. speed	[m/s]	1.5			
Max. acceleration	[m/s²]	15			
Position sensing		Magneto-resistive, inductive			

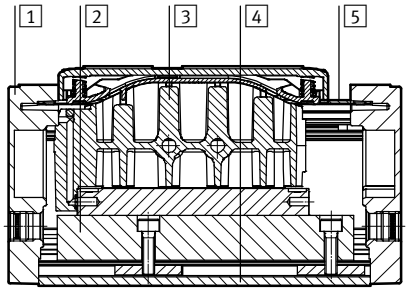
Operating and environmental conditions		
Ambient temperature	[°C]	0 ... +50
Degree of protection		IP40
Duty cycle	[%]	100
Maintenance interval		Life-time lubrication

Weight [g]				
Size	32	45	60	80
Basic weight with 0 mm stroke[1)]	168	384	1029	1905
Additional weight per 10 mm stroke	11	23	43	73
Moving load	61	144	407	815

1) Including slide

Materials

Sectional view



Axis		
1	End cap	Painted die-cast aluminium
2	Guide	Steel
3	Slide	Die cast aluminium
4	Profile	Anodised wrought aluminium alloy
5	Cover strip	High-alloy stainless steel
	Note on materials	Contains paint-wetting impairment substances
		RoHS compliant

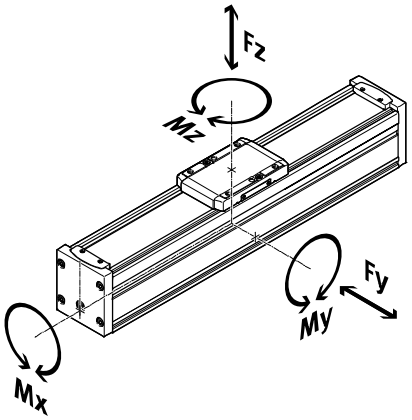
Guide axes ELFC, without drive

Technical data

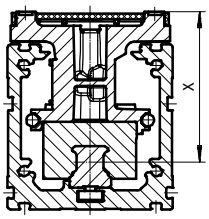
FESTO

Characteristic load values

The indicated forces and torques refer to the centre of the guide. The point of application of force is the point where the centre of the guide and the longitudinal centre of the slide intersect. These values must not be exceeded during dynamic operation. Special attention must be paid to the cushioning phase.



Distance from the slide surface to the centre of the guide



Max. permissible forces and torques on the slide (strength limits)					
Size		32	45	60	80
$Fy_{max.}$	[N]	150	300	600	900
$Fz_{max.}$	[N]	300	600	1800	2700
$Mx_{max.}$	[Nm]	1.3	5.5	29.1	59.8
$My_{max.}$	[Nm]	1.1	4.7	31.8	56.2
$Mz_{max.}$	[Nm]	1.1	4.7	31.8	56.2

Distance from the slide surface to the centre of the guide					
Size		32	45	60	80
Dimension x	[mm]	31.4	42.8	54.6	72.5

Max. permissible forces and torques for the bearing calculation, for a service life of 5000 km or 5 x 10^6 cycles					
Size		32	45	60	80
$Fy_{max.}$	[N]	356	880	3641	5543
$Fz_{max.}$	[N]	356	880	3641	5543
$Mx_{max.}$	[Nm]	1.3	5.5	29.1	59.8
$My_{max.}$	[Nm]	1.1	4.7	31.8	56.2
$Mz_{max.}$	[Nm]	1.1	4.7	31.8	56.2

Note

For a guide system to have a service life of 5000 km, the load comparison factor must have a value of $fv \leq 1$, based on the maximum permissible forces and torques for a service life of 5000 km.

If the axis is subjected to two or more of the indicated forces and torques simultaneously, the following equation must be satisfied in addition to the indicated maximum loads:

Calculating the load comparison factor:

$$f_v = \frac{|F_{y,dyn}|}{F_{y,max}} + \frac{|F_{z,dyn}|}{F_{z,max}} + \frac{|M_{x,dyn}|}{M_{x,max}} + \frac{|M_{y,dyn}|}{M_{y,max}} + \frac{|M_{z,dyn}|}{M_{z,max}} \leq 1$$

Guide axes ELFC, without drive

Technical data

FESTO

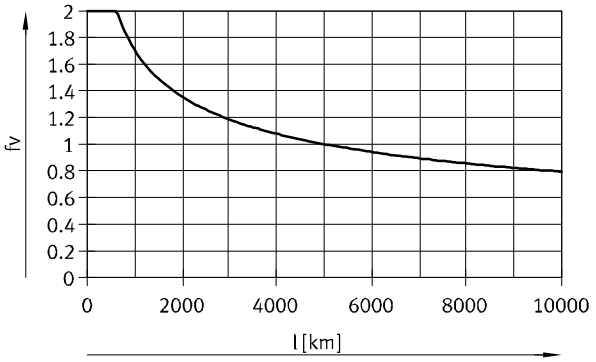
Calculating the service life

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 fv against the service life.

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

Load comparison factor f_v as a function of service life l

Example:
A user wants to move an X kg load. Using the formula (➔ page 10) gives 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 Mz and My values. A load comparison factor fv of 1 now gives a service life of 5000 km.



Comparison of the characteristic load values for 5000 km with dynamic forces and torques of recirculating ball bearing guides

The characteristic load values of roller 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 ELFC with roller 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 torques 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.

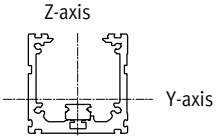
Max. permissible forces and torques for a theoretical service life of 100 km (from a guide perspective only)

Size		32	45	60	80
$Fy_{max.}$	[N]	1310	3240	13400	20400
$Fz_{max.}$	[N]	1310	3240	13400	20400
$Mx_{max.}$	[Nm]	5	20	107	220
$My_{max.}$	[Nm]	4	17	117	207
$Mz_{max.}$	[Nm]	4	17	117	207

Guide axes ELFC, without drive

Technical data

2nd moment of area

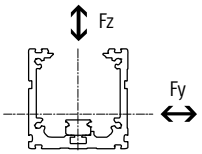


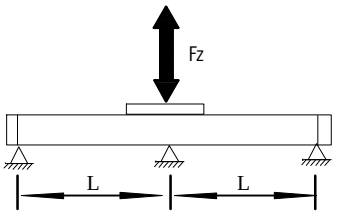
Size		32	45	60	80
Iy	[mm⁴]	38x10³	140x10³	441x10³	1.37x10⁶
Iz	[mm⁴]	45x10³	170x10³	542x10³	1.66x10⁶

Maximum permissible support spacing L (without profile mounting) as a function of force F

In order to limit deflection in the case of large strokes, the axis may need to be supported.
The following graphs can be used to determine the maximum permissible support spacing L as a function of force F acting on the axis. The deflection is f = 0.5 mm.

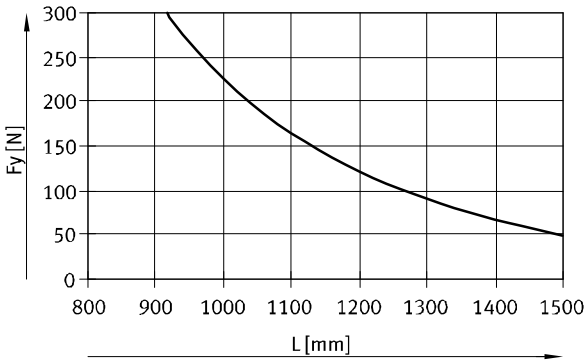
No support spacings are required for size 32.



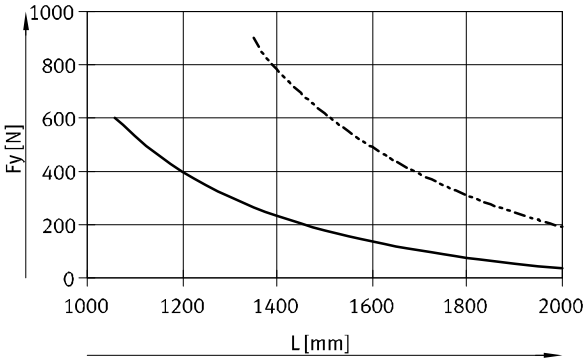


Force F_y

Size 45

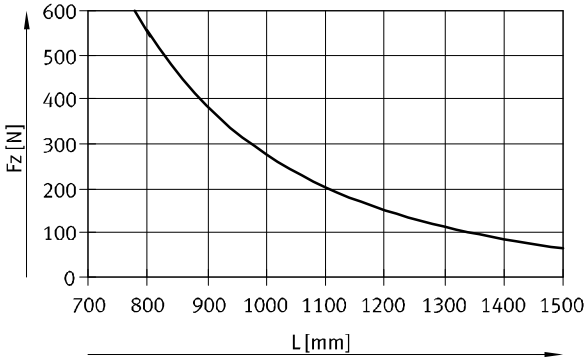


Size 60/80

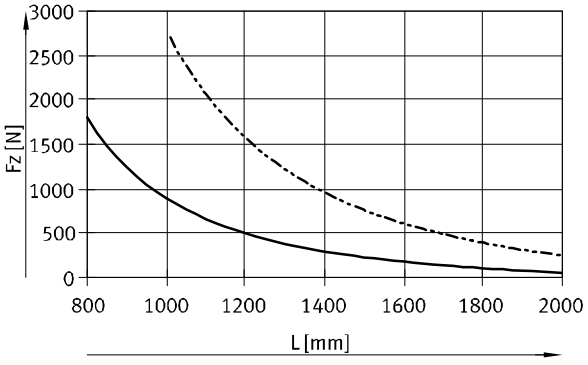


Force F_z

Size 45



Size 60/80



ELFC-KF-45

ELFC-KF-60

ELFC-KF-80

Recommended deflection limits

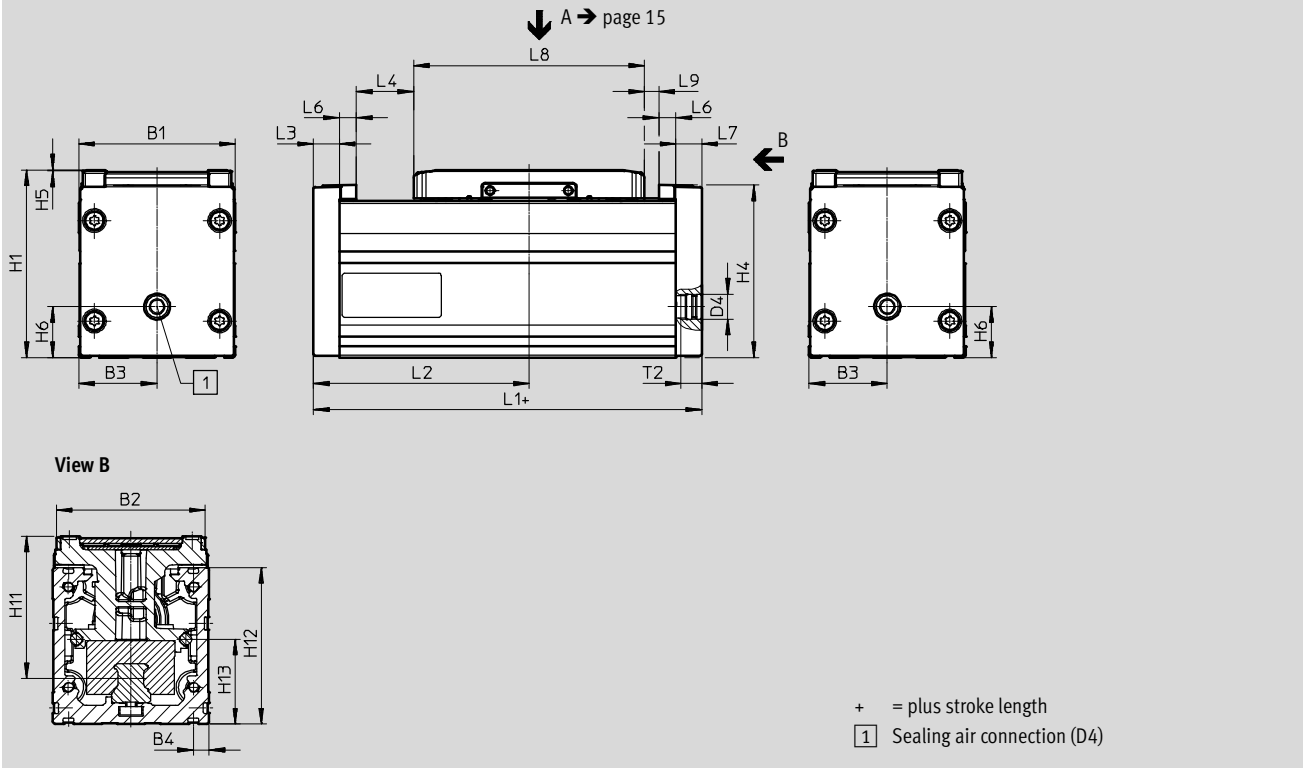
Adherence to the following deflection limits is recommended so as not to impair the functional performance of the axes. Greater deformation can result in increased friction, greater wear and reduced service life.

Size	Dynamic deflection (moving load)	Static deflection
32 ... 80	0.05% of the axis length, max. 0.5 mm	0.1% of the axis length

Guide axes ELFC, without drive

Technical data

Dimensions Download CAD data ➔ **www.festo.com**



Size	B1	B2	B3	B4	D4	H1	H4	H5	H6	H11	H12
32	32	29.6	16	4.9	M5	38.5	35.6	0.3	8	31.4	32
45	45	42.6	22.5	6.1	G1/8	54	49.6	0.5	12.5	42.8	45
60	60	57.1	30	6.1	G1/8	72	66.1	0.5	19.5	54.6	60
80	80	77.1	40	6.1	G1/8	96	88.1	0.5	20	72.5	80

Size	H13	L1	L2 Min.	L3	L4 Min.	L6	L7	L8	L9 Min.	T2
32	13.7	87	40.5	5	1.5	4.5	5	59	7.5	5.5
45	18.5	103.5	48.8	7	0	6.5	7	67.5	7.5	8
60	32.5	130.5	62.3	10	0	6.5	10	88.5	7.5	8
80	41.5	152	73	12	0	6.5	12	106	7.5	8

Guide axes ELFC, without drive

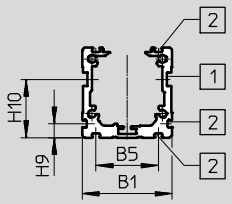
Technical data

FESTO

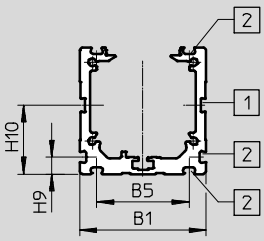
Dimensions Download CAD data ➔ **www.festo.com**

Profile

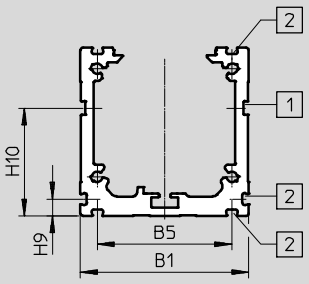
Size 32



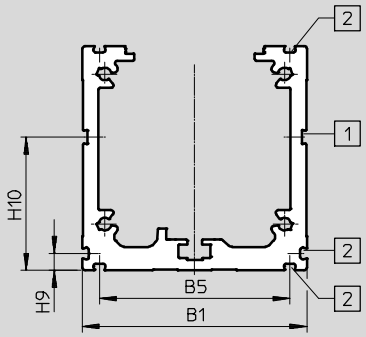
Size 45



Size 60



Size 80



1 Slot for sensor bracket
2 Mounting slot

Size	B1	B5	H9	H10
32	32	22.2	4.9	20.8
45	45	32.9	6.1	24.5
60	60	47.9	6.1	38.5
80	80	67.9	6.1	47.5

Guide axes ELFC, without drive

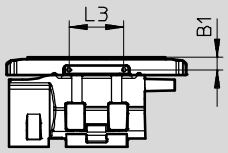
Technical data

FESTO

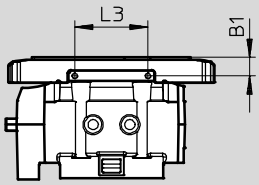
Dimensions Download CAD data ➔ **www.festo.com**

Slide

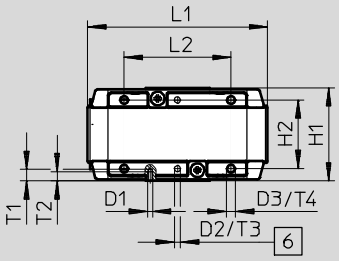
Size 32



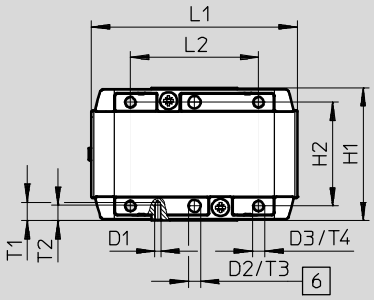
Size 45



View A



View A



6 Hole for centring pin ZBS

Size	B1 ±0.1	D1	D2 ∅ H8	D3	H1 ±0.1	H2 ±0.1 for D2 ±0.03
32	4	M1.6	2	M3	30.5	22.5
45	6	M2	4	M4	43.5	34

Size	L1	L2 ±0.1	L3 ±0.1	T1	T2	T3 +0.1	T4 [1]
32	59	35	18	3.8	3	3.1	4 … 5
45	67.5	42	24	6	5	3.1	6 … 7.5

1) Recommended screw-in depth

Guide axes ELFC, without drive

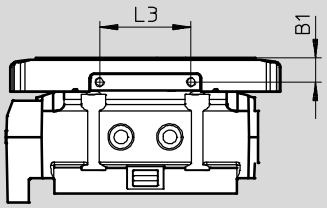
Technical data

FESTO

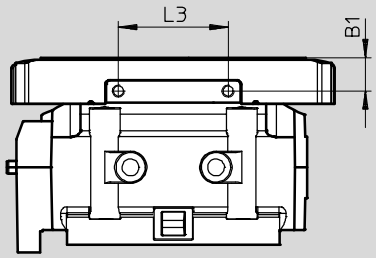
Dimensions Download CAD data ➔ **www.festo.com**

Slide

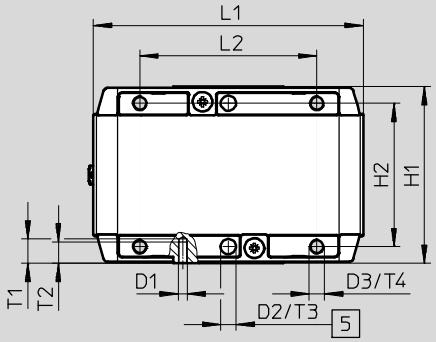
Size 60



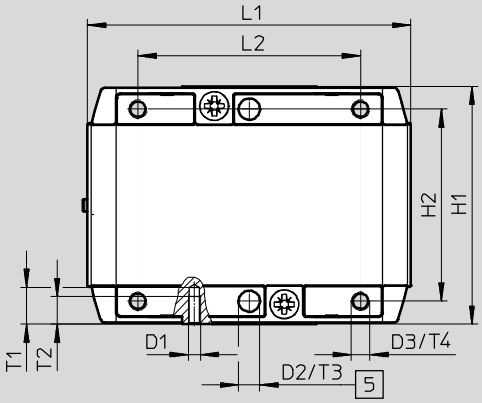
Size 80



View A



View A



5 Hole for centring sleeve ZBH

Size	B1 ±0.1	D1	D2 ∅ H8	D3	H1 ±0.1	H2 ±0.1 for D2 ±0.03
60	8	M3	5	M5	58	47
80	11	M4	7	M6	78	63

Size	L1	L2 ±0.1	L3 ±0.1	T1	T2	T3 +0.1	T4 [1]
60	88.5	58	30	9	7	1.3	8.5 ... 10
80	106	73	36	12	9	1.6	11 ... 14

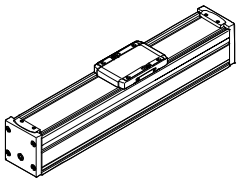
1) Recommended screw-in depth

Guide axes ELFC, without drive

Technical data

FESTO

Ordering data

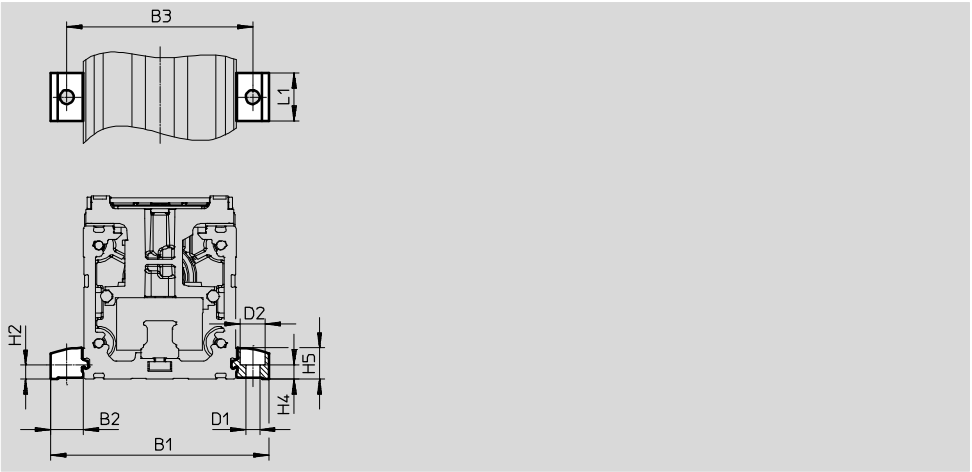
	Size	Stroke [mm]	Part No.	Type
	32	100	**8062796**	**ELFC-KF-32-100**
		200	**8062797**	**ELFC-KF-32-200**
		300	**8062798**	**ELFC-KF-32-300**
		400	**8062799**	**ELFC-KF-32-400**
		500	**8062800**	**ELFC-KF-32-500**
		600	**8062801**	**ELFC-KF-32-600**
		800	**8062876**	**ELFC-KF-32-800**
	45	100	**8062802**	**ELFC-KF-45-100**
		200	**8062803**	**ELFC-KF-45-200**
		300	**8062804**	**ELFC-KF-45-300**
		400	**8062805**	**ELFC-KF-45-400**
		500	**8062806**	**ELFC-KF-45-500**
		600	**8062807**	**ELFC-KF-45-600**
		800	**8062808**	**ELFC-KF-45-800**
		1000	**8062809**	**ELFC-KF-45-1000**
		1200	**8062810**	**ELFC-KF-45-1200**
		1500	**8062811**	**ELFC-KF-45-1500**
	60	100	**8062812**	**ELFC-KF-60-100**
		200	**8062813**	**ELFC-KF-60-200**
		300	**8062814**	**ELFC-KF-60-300**
		400	**8062815**	**ELFC-KF-60-400**
		500	**8062816**	**ELFC-KF-60-500**
		600	**8062817**	**ELFC-KF-60-600**
		800	**8062818**	**ELFC-KF-60-800**
		1000	**8062819**	**ELFC-KF-60-1000**
		1200	**8062820**	**ELFC-KF-60-1200**
		1500	**8062821**	**ELFC-KF-60-1500**
		1800	**8062822**	**ELFC-KF-60-1800**
		2000	**8062823**	**ELFC-KF-60-2000**
	80	100	**8062824**	**ELFC-KF-80-100**
		200	**8062825**	**ELFC-KF-80-200**
		300	**8062826**	**ELFC-KF-80-300**
		400	**8062827**	**ELFC-KF-80-400**
		500	**8062828**	**ELFC-KF-80-500**
		600	**8062829**	**ELFC-KF-80-600**
		800	**8062830**	**ELFC-KF-80-800**
		1000	**8062831**	**ELFC-KF-80-1000**
		1200	**8062832**	**ELFC-KF-80-1200**
		1500	**8062833**	**ELFC-KF-80-1500**
		1800	**8062834**	**ELFC-KF-80-1800**
		2000	**8062835**	**ELFC-KF-80-2000**

Guide axes ELFC, without drive

Accessories

Profile mounting EAHF-L2-...-P-S
Material:
Anodised wrought aluminium alloy
RoHS compliant

- For mounting the axis on the side of the profile



Dimensions and ordering data

For size	B1	B2	B3	D1 ∅ H13	D2 ∅ H13	H2
32	51.4	9.7	42	4.5	8	4.9
45	70.6	12.8	58	5.5	10	6.1
60	85.6	12.8	73	5.5	10	6.1
80	105.6	12.8	93	5.5	10	6.1

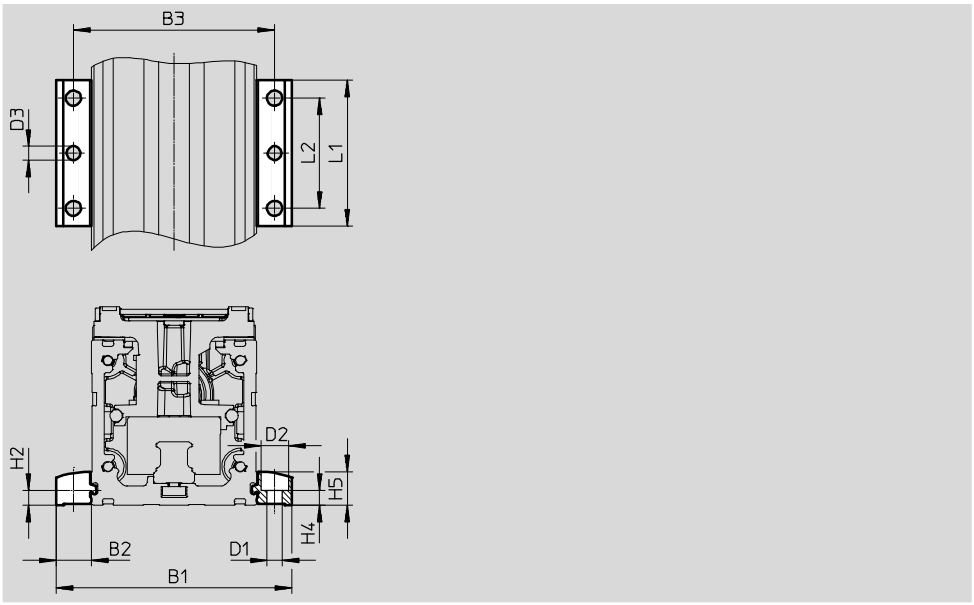
For size	H4 ±0.1	H5	L1	Weight [g]	Part No.	Type
32	4.2	9	19	4	**5183153**	**EAHF-L2-25-P-S**
45	5.5	12.2	19	6	**5184133**	**EAHF-L2-45-P-S**
60	5.5	12.2	19	6	**5184133**	**EAHF-L2-45-P-S**
80	5.5	12.2	19	6	**5184133**	**EAHF-L2-45-P-S**

Guide axes ELFC, without drive

Accessories

Profile mounting EAHF-L2-...-P
Material:
Anodised wrought aluminium alloy
RoHS compliant

- For mounting the axis on the side of the profile.
  The profile mounting can be fixed in place on the mounting surface using the drill hole in the centre.



Dimensions and ordering data

For size	B1	B2	B3	D1 ∅ H13	D2 ∅ H13	D3 ∅	H2
32	51.4	9.7	42	4.5	8	4	4.9
45	70.6	12.8	58	5.5	10	5	6.1
60	85.6	12.8	73	5.5	10	5	6.1
80	105.6	12.8	93	5.5	10	5	6.1

For size	H4 ±0.1	H5	L1	L2	Weight [g]	Part No.	Type
32	4.2	9	53	40	19	**4835684**	**EAHF-L2-25-P**
45	5.5	12.2	53	40	35	**4835728**	**EAHF-L2-45-P**
60	5.5	12.2	53	40	35	**4835728**	**EAHF-L2-45-P**
80	5.5	12.2	53	40	35	**4835728**	**EAHF-L2-45-P**

New

Guide axes ELFC, without drive

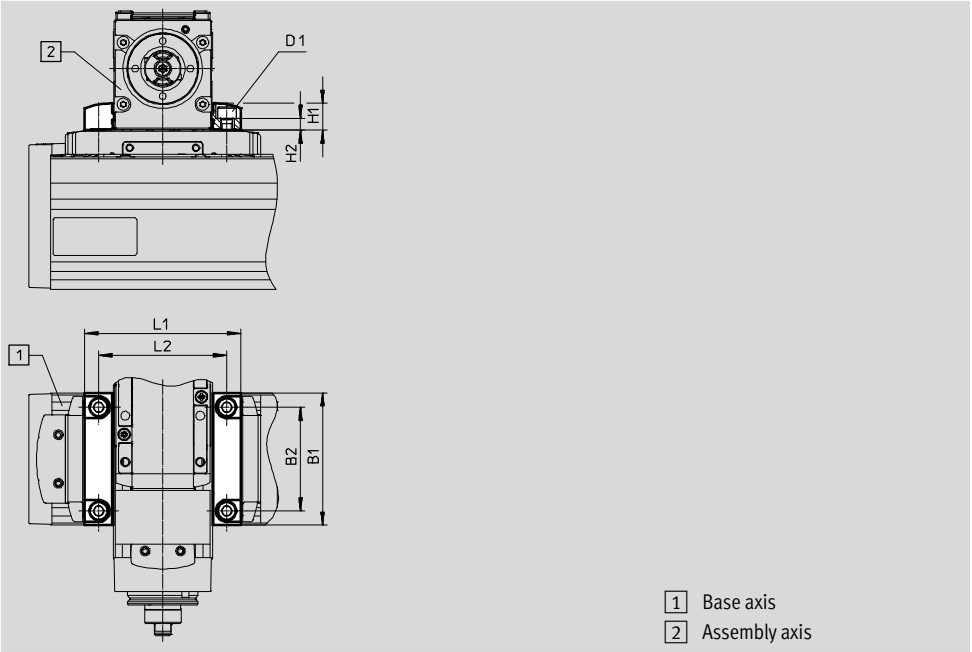
Accessories

Profile mounting EAHF-L2-...-P-D...
Material:
Anodised wrought aluminium alloy
RoHS compliant

- For axis/axis mounting without adapter plate
- Mounting option: base axis with the next smallest assembly axis down (➔ page 3)

Combination matrix

		2 Assembly axis ELGC-BS/-TB; ELFC; EGSC-BS			
	Size	25	32	45	60
1 Base axis ELGC-BS/-TB; ELFC	32	4759753	–	–	–
	45	–	4759748	–	–
	60	–	–	4759739	–
	80	–	–	–	4759726



Dimensions and ordering data

For combination (size)	B1	B2	D1	H1
32/25	32	22.5	M3	9
45/32	45	34	M4	9
60/45	60	47	M5	12.2
80/60	78	63	M6	12.2

For combination (size)	H2 ±0.1	L1	L2	Weight [g]	Part No.	Type
32/25	5.1	44.4	35	16	**4759753**	**EAHF-L2-25-P-D1**
45/32	3.7	51.4	42	24	**4759748**	**EAHF-L2-25-P-D2**
60/45	5.5	70.6	56	56	**4759739**	**EAHF-L2-45-P-D3**
80/60	4.5	85.6	73	77	**4759726**	**EAHF-L2-45-P-D4**

Guide axes ELFC, without drive

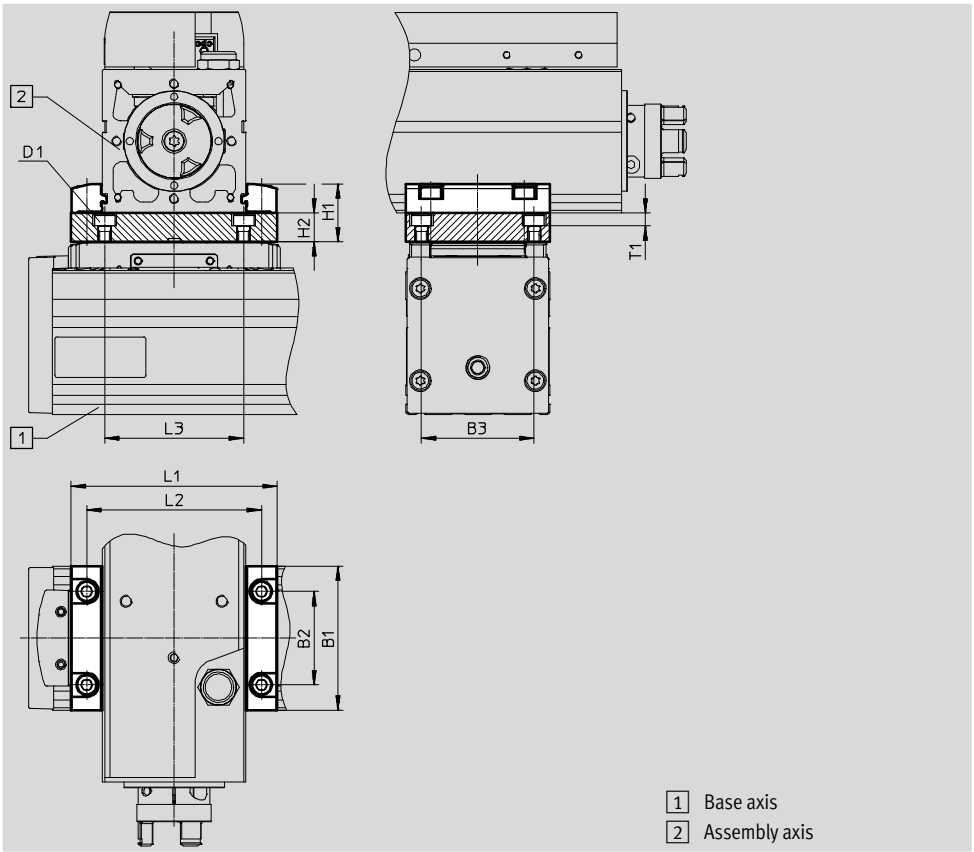
Accessories

Adapter kit EHAA-D-L2
Material:
Anodised wrought aluminium alloy
RoHS compliant

- For axis/axis mounting with adapter plate
- Mounting option: base axis with the same size or next smallest assembly axis (➔ page 4)
- When motors are assembled using parallel kits, interfering contours may occur. In this case, the adapter plate is required for height compensation (download CAD data ➔ www.festo.com)

Combination matrix

		2 Assembly axis ELGC-BS/-TB; ELFC; EGSC-BS				
	Size	25	32	45	60	80
1 Base axis ELGC-BS/-TB; ELFC	32	8066713		–	–	–
	45	–	8066714		–	–
	60	–	–	8066715		–
	80	–	–	–	8066716	



Dimensions and ordering data

For combination (size)	B1	B3 ±0.05	D1	H1	H2	L1	L2	L3	T1	Weight [g]	Part No.	Type
32/25	32	22.5	M3	19	10	44.4	35	35	4.2	60	**8066713**	**EHAA-D-L2-32-L2-32**
45/32	45	34	M4	19	10	51.4	42	42	5.4	136	**8066714**	**EHAA-D-L2-45-L2-45**
60/45	60	47	M5	24.2	12	70.6	58	58	5.4	205	**8066715**	**EHAA-D-L2-60-L2-60**
80/60	78	63	M6	24.2	12	85.6	73	73	6.4	315	**8066716**	**EHAA-D-L2-80-L2-80**

For combination (size)	B1	B2	B3 ±0.05	D1	H1	H2	L1	L2	L3	T1	Weight [g]	Part No.	Type
32/32	32	14.5	22.5	M3	19	10	52	42	35	4.2	60	**8066713**	**EHAA-D-L2-32-L2-32**
45/45	45	32	34	M4	22.2	10	71	58	42	5.4	136	**8066714**	**EHAA-D-L2-45-L2-45**
60/60	60	39	47	M5	24.2	12	86	73	58	5.4	205	**8066715**	**EHAA-D-L2-60-L2-60**
80/80	78	63	63	M6	24.2	12	106	93	73	6.4	315	**8066716**	**EHAA-D-L2-80-L2-80**

Guide axes ELFC, without drive

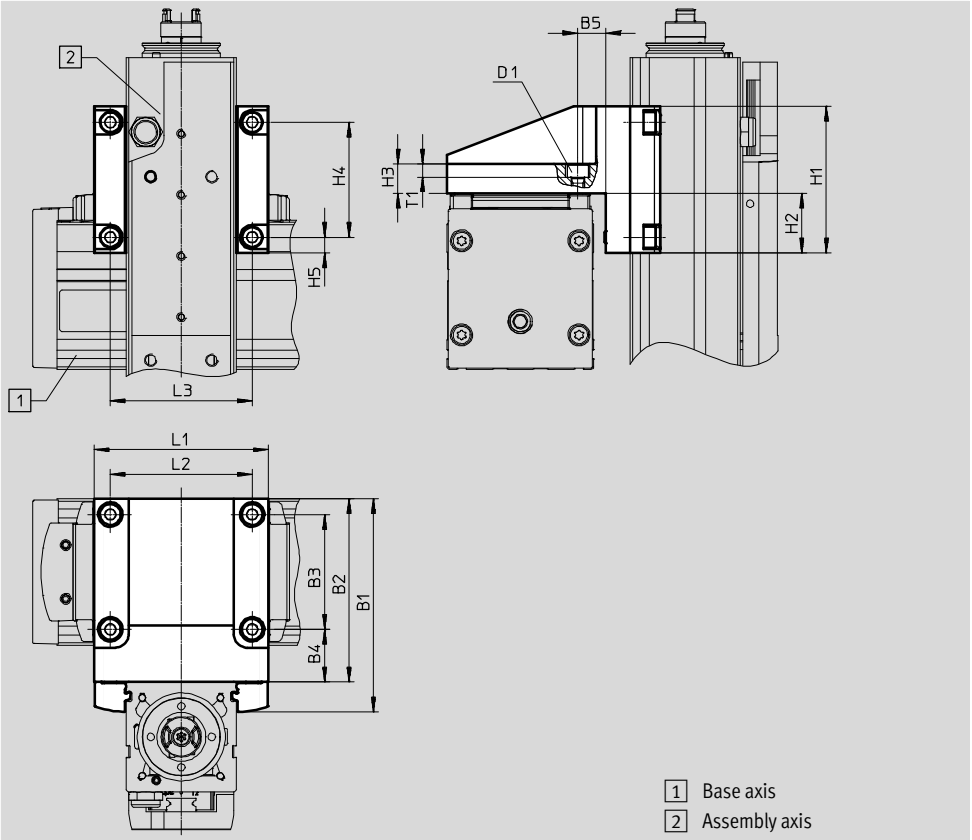
Accessories

Angle kit EHAA-D-L2-...-AP
Material:
Anodised wrought aluminium alloy
RoHS compliant

- For mounting the next smallest vertical axes (assembly axes) on base axes with mounting position "slide at top" (➔ page 5)

Combination matrix

		2 Assembly axis ELGC-BS/-TB; ELFC; EGSC-BS			
	Size	25	32	45	60
1 Base axis ELGC-BS/-TB; ELFC	32	8066717	–	–	–
	45	–	8066718	–	–
	60	–	–	8066719	–
	80	–	–	–	8066720



Dimensions and ordering data

For combination (size)	B1	B2	B3	B4	B5	D1	H1	H2	H3
32	53	44	22.5	16.8	8.8	M3	32	11	10
45	69	60	34	20.5	11.5	M4	45	17.5	10
60	87.2	75	47	21.5	11.5	M5	60	24.5	12
80	107.2	95	63	23.5	13.5	M6	78	33.5	12

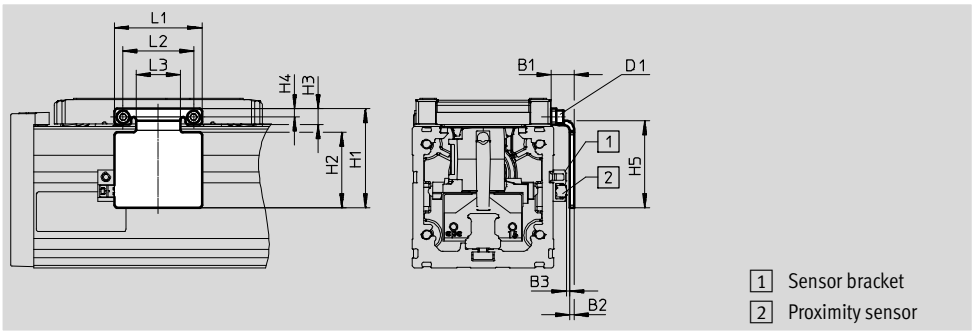
For combination (size)	H4	H5	L1	L2	L3	T1	Weight [g]	Part No.	Type
32	22.5	4.8	45	35	35	4.2	107	**8066717**	**EHAA-D-L2-32-L2-25-AP**
45	34	5.5	52	42	42	5.4	222	**8066718**	**EHAA-D-L2-45-L2-32-AP**
60	47	6.5	71	58	58	5.4	433	**8066719**	**EHAA-D-L2-60-L2-45-AP**
80	63	7.5	86	73	73	6.4	768	**8066720**	**EHAA-D-L2-80-L2-60-AP**

Guide axes ELFC, without drive

Accessories

Switch lug EAPM-L2-SLS
For sensing using inductive proximity sensors SIES-8M

Materials:
Galvanised steel
RoHS-compliant



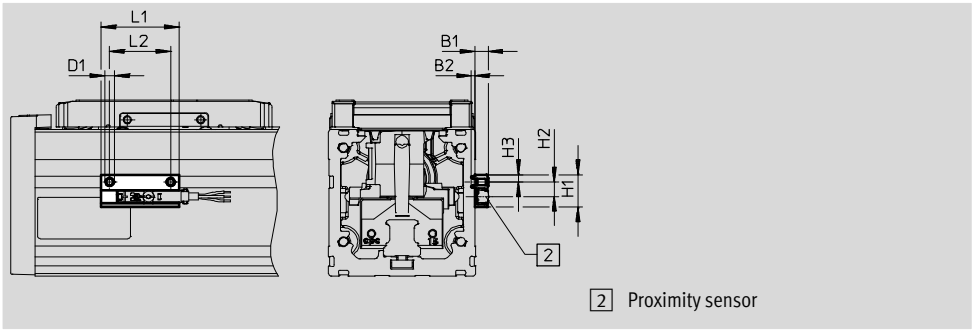
Dimensions and ordering data

For size	B1	B2	B3	D1	H1 ±0.2	H2	H3	H4
32	9.2	2	1.0±0.31	M1.6	27	19	4.3	2.5
45	9.4	2	1.2±0.31	M2	37	28	5.5	3.3
60	9.7	2	1.3±0.31	M3	42	32	6.6	3.5
80	9.5	2	1.1±0.32	M4	53.5	42	8.3	4.5

For size	H5 ±0.2	L1 ±0.2	L2 ±0.15	L3	Weight [g]	Part No.	Type
32	24	22	18	10	10	**8067259**	**EAPM-L2-32-SLS**
45	33	30	24	14	18	**8067260**	**EAPM-L2-45-SLS**
60	37	37	30	19	27	**8067261**	**EAPM-L2-60-SLS**
80	47	44.6	36	23.4	42	**8067262**	**EAPM-L2-80-SLS**

Sensor bracket EAPM-L2-SH

Material:
Anodised wrought aluminium alloy
RoHS compliant



Dimensions and ordering data

For size	B1	B2	D1	H1	H2
32, 45, 60, 80	5.5	1.3	M4	13.4	6

For size	H3	L1	L2	Weight [g]	Part No.	Type
32, 45, 60, 80	3	32	25	4	**4759852**	**EAPM-L2-SH**

Guide axes ELFC, without drive

Accessories

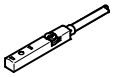
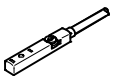
FESTO

Ordering data

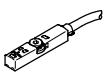
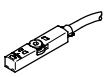
	For size	Description	Part No.	Type	PU[1]
Centring pin ZBS/centring sleeve ZBH					
	32	For slide	**525273**	**ZBS-2**	10
	45		**562959**	**ZBS-4**	
	60		**189652**	**ZBH-5**	
	80		**186717**	**ZBH-7**	
Clamping element EADT					
	32, 45	Tool for retensioning the cover band	**8065818**	**EADT-S-L5-32**	1
	60, 80		**8058451**	**EADT-S-L5-70**	

1) Packaging unit quantity

Ordering data – Proximity sensors for T-slot, inductive — Technical data ➔ Internet: sies

	Type of mounting	Switching output	Electrical connection	Cable length [m]	Part No.	Type
N/O contact						
	Inserted in the slot from above, flush with the cylinder profile	PNP	Cable, 3-wire	7.5	**551386**	**SIES-8M-PS-24V-K-7,5-OE**
			Plug connector M8x1, 3-pin	0.3	**551387**	**SIES-8M-PS-24V-K-0,3-M8D**
		NPN	Cable, 3-wire	7.5	**551396**	**SIES-8M-NS-24V-K-7,5-OE**
			Plug connector M8x1, 3-pin	0.3	**551397**	**SIES-8M-NS-24V-K-0,3-M8D**
N/C contact						
	Inserted in the slot from above, flush with the cylinder profile	PNP	Cable, 3-wire	7.5	**551391**	**SIES-8M-PO-24V-K-7,5-OE**
			Plug connector M8x1, 3-pin	0.3	**551392**	**SIES-8M-PO-24V-K-0,3-M8D**
		NPN	Cable, 3-wire	7.5	**551401**	**SIES-8M-NO-24V-K-7,5-OE**
			Plug connector M8x1, 3-pin	0.3	**551402**	**SIES-8M-NO-24V-K-0,3-M8D**

Ordering data – Proximity sensors for T-slot, magneto-resistive — Technical data ➔ Internet: smt

	Type of mounting	Switching output	Electrical connection	Cable length [m]	Part No.	Type
N/O						
	Inserted in the slot from above, flush with the cylinder profile, short design	PNP	Cable, 3-wire	2.5	**574335**	**SMT-8M-A-PS-24V-E-2,5-OE**
			Plug connector M8x1, 3-pin	0.3	**574334**	**SMT-8M-A-PS-24V-E-0,3-M8D**
N/C						
	Inserted in the slot from above, flush with the cylinder profile, short design	PNP	Cable, 3-wire	7.5	**574340**	**SMT-8M-A-PO-24V-E-2,5-OE**

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	Electrical connection, left	Electrical connection, right	Cable length [m]	Part No.	Type
	Straight socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	**541333**	**NEBU-M8G3-K-2.5-LE3**
			5	**541334**	**NEBU-M8G3-K-5-LE3**
	Angled socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	**541338**	**NEBU-M8W3-K-2.5-LE3**
			5	**541341**	**NEBU-M8W3-K-5-LE3**