

## Linear drives ELGL-LAS, with air bearing and linear motor

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# Linear drives ELGL-LAS, with air bearing and linear motor

Key features

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## At a glance

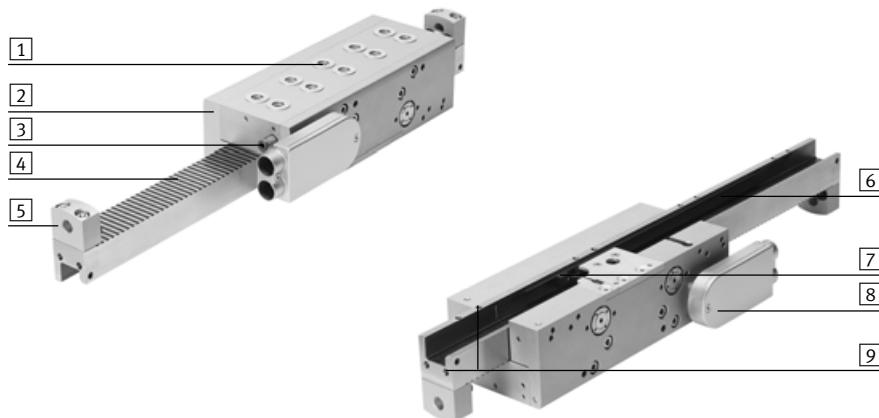
The electric linear drive ELGL is a handling axis with air-bearing guide and integrated linear motor. The drive elements and the air bearing form a single unit. The slide moves on the stator rail. An integrated displacement encoder sends signals to the controller.

The displacement encoder, controller and motor operate in a closed-loop control circuit. This enables the motor to regulate to specified set values for speed and position within the permitted stroke range with a high degree of accuracy.

## Advantages

- Highly accurate positioning and very good linearity thanks to the air bearing
- Integrated locking brake function through magnetic pretensioning of the air bearing
- Multiple carriages possible on one axis
- Opposing and synchronous movements possible
- No friction on the guide parts
- Maintenance and wear-free

## The technology in detail



- [1] Mounting thread with centring recesses
- [2] Slide
- [3] Supply port for air bearing
- [4] Stator
- [5] End stop with rubber buffer, shock absorbers can alternatively be screwed in
- [6] Integrated displacement encoder
- [7] Sensor
- [8] Electrical interface, rotatable in steps of 90°
- [9] Mounting thread for foot mountings

## Complete system consisting of linear drive and motor controller

Linear axis ELGL

→ 3

Motor controller CMMP-AS

→ 21



### Note

When using the linear axis, make sure that no dirt or dirt particles are sticking to the surface of the air bearing.

Invasive or hardened dirt can block the nozzles of the air bearing to the extent where they need to be replaced.

# Linear drives ELGL-LAS, with air bearing and linear motor

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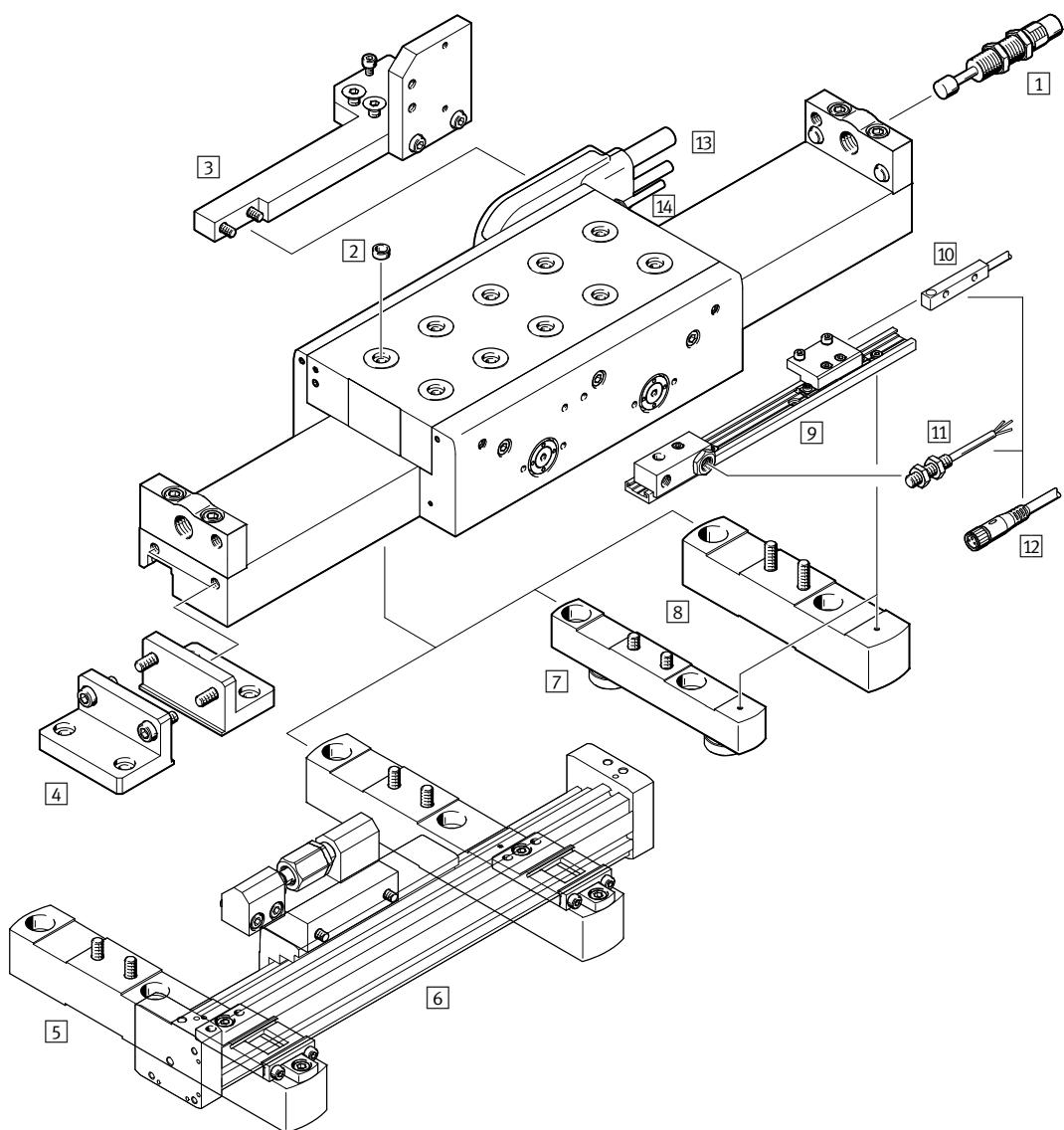
Type codes

	ELGL	-	L	AS	-	30	-	500	-	M	-	M	-		-		-	R	-	E	-	B	-	F																							
<b>Function</b>																																															
ELGL	Linear drives																																														
<b>Drive function</b>																																															
L	Linear motor																																														
<b>Motor technology</b>																																															
AS	AC synchronous																																														
<b>Size</b>																																															
<b>Stroke [mm]</b>																																															
<b>Slide 1</b>																																															
S	Double coil system																																														
M	Triple coil system																																														
L	Quadruple coil system																																														
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-	None																																														
S	Double coil system																																														
M	Triple coil system																																														
L	Quadruple coil system																																														
<b>Slide 4</b>																																															
-	None																																														
S	Double coil system																																														
M	Triple coil system																																														
L	Quadruple coil system																																														
<b>Electrical connection</b>																																															
R	Angled plug, rotatable																																														
<b>Measuring unit</b>																																															
E	Encoder																																														
<b>Electrical interface</b>																																															
B	Serial bi-directional (BiSS)																																														
<b>Mounting attachments</b>																																															
-	None																																														
F	Foot mounting																																														

# Linear drives ELGL-LAS, with air bearing and linear motor

Peripherals overview

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# Linear drives ELGL-LAS, with air bearing and linear motor

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Peripherals overview

Accessories			➔ Page/Internet
Type	Brief description		
[1] Shock absorber YSRW	For avoiding damage at the end stop in the event of malfunction	21	
[2] Centring sleeve ZBH	<ul style="list-style-type: none"> <li>• For centring loads and attachments on the slide</li> <li>• Centring sleeves are not included in the scope of delivery of the drive</li> </ul>	21	
[3] Mounting kit EAHT	For mounting an energy chain (type: E6.29 or E6.40) on the linear drive ELGL	19	
[4] Foot mounting EAHF	<ul style="list-style-type: none"> <li>• For mounting the axis on the end cap</li> <li>• 2 included in the scope of delivery</li> </ul>	16	
[5] Mounting kit EAHC	<ul style="list-style-type: none"> <li>• For mounting a pneumatic linear drive DGC on the linear drive ELGL</li> <li>• The slides are connected to each other via a self-aligning rod coupler</li> </ul>	20	
[6] Linear drive DGC-18-...	For relieving the load on the linear motor when used vertically (➔ below)	dgc	
[7] Adjustable foot mounting EAHF-...-PJ	<ul style="list-style-type: none"> <li>• For mounting the axis on the stator</li> <li>• Height-adjustable foot mounting, compensates for unevenness of the mounting surface</li> <li>• 1 included in the scope of delivery</li> </ul>	17	
[8] Foot mounting EAHF-...-P	<ul style="list-style-type: none"> <li>• For mounting the axis on the stator</li> <li>• 2 included in the scope of delivery</li> </ul>	16	
[9] Sensor bracket EAPR	For attaching the inductive proximity sensors to the foot mountings EAHF-...-P or EAHF-...-PJ	18	
[10] Proximity sensor SIES	Inductive proximity sensor, square design	21	
[11] Proximity sensor SIEN	Inductive proximity sensor, round design	22	
[12] Connecting cable NEBU	For connecting the proximity sensor with plug connection to the controller	22	
[13] Motor cable NEBM	<ul style="list-style-type: none"> <li>• For connecting the motor and controller</li> <li>• Connection can be rotated in steps of 90°</li> </ul>	21	
[13] Encoder cable NEBM	<ul style="list-style-type: none"> <li>• For connecting the displacement encoder and controller</li> <li>• Connection can be rotated in steps of 90°</li> </ul>	21	
[14] QS push-in fitting QSM	For connecting compressed air tubing with standard external diameters	22	

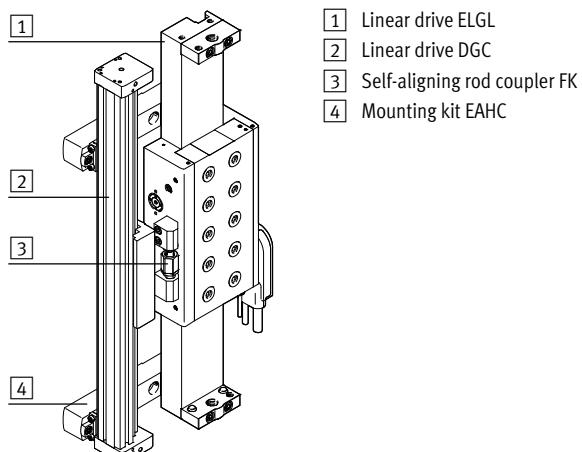
## Compressed air backup for vertical operation

A pneumatic linear drive DGC-18 can be attached to the linear drive ELGL to protect the linear motor from overheating. The effective load is additionally held by the DGC when approaching the position by means of an appropriate backpressure in the DGC.

Ordering aid:

Part number: 532446

Type: DGC-18-...-G-...



# Linear drives ELGL-LAS, with air bearing and linear motor

Technical data

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## Function

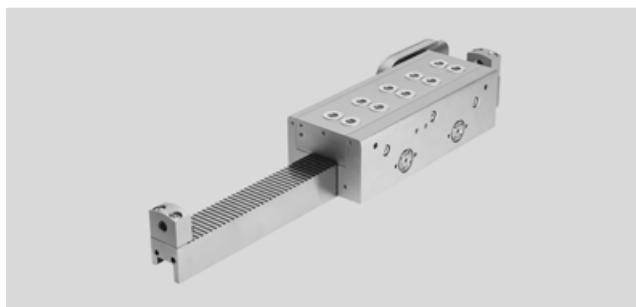


### Note

All values are based on a normal temperature of 23 °C.  
Dynamic response and accuracy depend on the mounting (rigidity) and temperature stresses (heat concentration).

- Ø - Size  
30 ... 120

- | - Stroke length  
1 ... 5750 mm



## General technical data

Size	30	64	120				
Coil system	S	S	M	S	M	L	
Constructional design	Electric linear direct drive						
	Guide with integrated displacement encoder						
Guide	Air bearing						
Type of mounting	Via accessories						
Mounting position	Horizontal	Any					
Effective stroke [mm]	1 ... 740	1 ... 1750 <sup>1)</sup>	1 ... 1650 <sup>1)</sup>	1 ... 1750 <sup>1)</sup>	1 ... 1650 <sup>1)</sup>	1 ... 1550 <sup>1)</sup>	
Max. feed force Fx [N]	44	119	164	240	310	450	
Continuous feed force Fx [N]	44	110	160	217	282	330	
Max. speed [m/s]	4			3.4	3.2	2	
Max. acceleration [m/s <sup>2</sup> ]	15.4	29.4	29.1	47.6	40.4	50.2	
Repetition accuracy [mm]	±0.01						
Locking brake	Integrated by means of air bearing						

1) Work strokes up to 5,750 mm on request

## Electrical data

Size	30	64	120			
Coil system	S	S	M	S	M	L
Type of motor	Linear AC servo motor					
Stator pole pitch [mm]	5					
Displacement encoder	Incremental, magnetic, resolution 1.56 µm					
Intermediate circuit voltage [V]	600					
Peak current [A]	4.0	4.0	4.0	4.5	4.5	4.5
Nominal current [A]	3.5	3.5	3.0	3.5	3.0	2.75
Magnetic radiation	None					

## Pneumatic data

Size	30	64	120			
Coil system	S	S	M	S	M	L
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [2:4:2]					
	For dust: class 2 (max. particle size 1 µm, max. particle density 1 mg/m <sup>3</sup> )					
	For water: class 4 (≤ 30 °C pressure dew point)					
	For oil: class 2 (≤ 0.1 mg/m <sup>3</sup> , oil-free)					
Operating pressure [bar]	5					
Air consumption [l/min]	15	15	20	15	20	40

# Linear drives ELGL-LAS, with air bearing and linear motor

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Technical data

## Operating and environmental conditions

Ambient temperature <sup>1)</sup>	[°C]	0 ... +40
Max. motor temperature	[°C]	70
Normal temperature <sup>2)</sup>	[°C]	23
Temperature monitoring	Automatic switch-off in event of over-temperature (PTC resistor)	
Degree of protection	IP65	
Relative air humidity (non-condensing)	[%]	20 ... 80
CE mark (see declaration of conformity)	To EU EMC Directive To EU Low Voltage Directive	
Certification	C-Tick	

1) Temperature range must also be adhered to during transport.

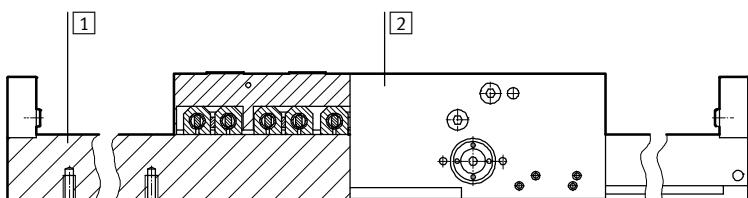
2) Unless otherwise stated, all values are based on normal temperature

## Weight

Size	30	64	120			
Coil system	S	S	M	S	M	L
Slide [kg]	2.8	3.8	5.0	4.7	6.8	8.7
Stator [kg/m]	4.9	13.3		27.0		

## Materials

Sectional view



## Linear drive

[1] Stator	Steel
[2] Housing	Wrought aluminium alloy, anodised
- Note on materials	Contains PWIS (paint-wetting impairment substances) RoHS-compliant

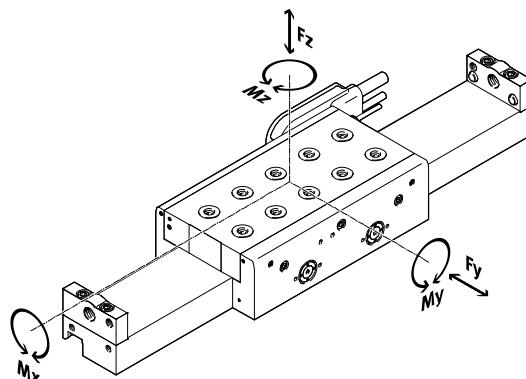
# Linear drives ELGL-LAS, with air bearing and linear motor

Technical data

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## Static characteristic load values

The indicated forces and torques refer to the slide surface. 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. Attention must be paid to the acceleration and braking.



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

$$\frac{|F_y|}{F_{y\max.}} + \frac{|F_z|}{F_{z\max.}} + \frac{|M_x|}{M_{x\max.}} + \frac{|M_y|}{M_{y\max.}} + \frac{|M_z|}{M_{z\max.}} \leq 1$$

## Permissible forces and torques

Size	30	64	120			
Coil system	S	S	M	S	M	L
F <sub>y</sub> max. [N]	600	600	600	600	600	600
Limit load F <sub>z</sub> max. [N]	160	700	1000	1300	1700	2500
Tensile load F <sub>z</sub> max. [N]	35	140	220	260	300	400
M <sub>x</sub> max. [Nm]	1.2	8	10	14	21	28
M <sub>y</sub> max. [Nm]	7	20	28	45	60	80
M <sub>z</sub> max. [Nm]	20	20	30	20	30	50

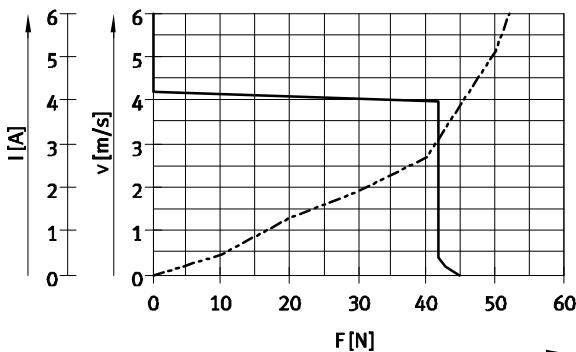
# Linear drives ELGL-LAS, with air bearing and linear motor

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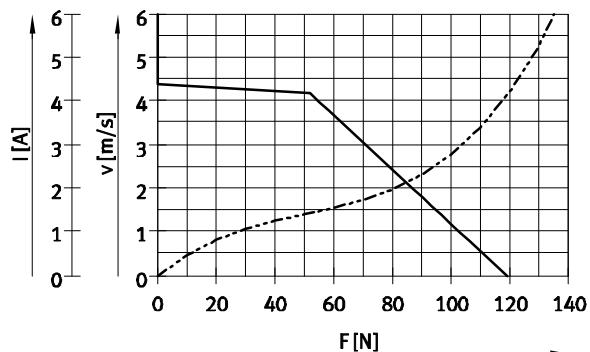
Technical data

Speed v and current I as a function of feed force F

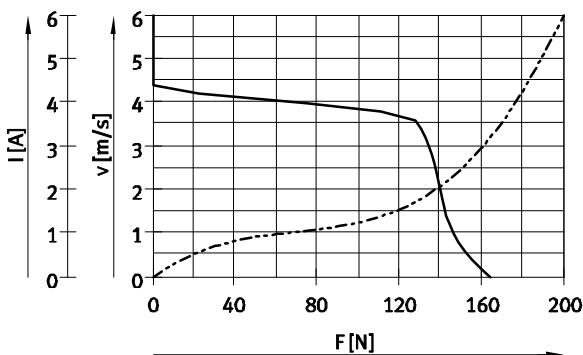
ELGL-LAS-30....S



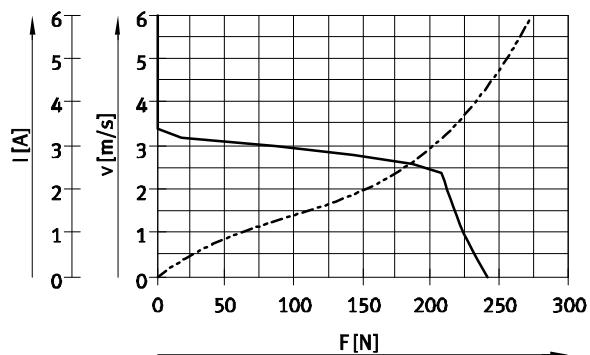
ELGL-LAS-64....S



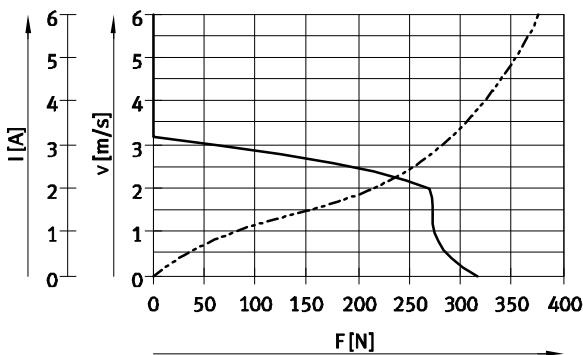
ELGL-LAS-64....M



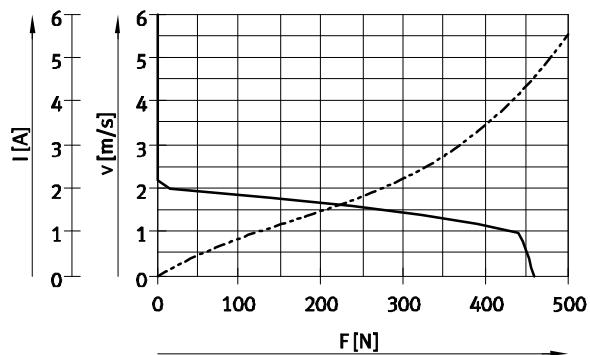
ELGL-LAS-120....S



ELGL-LAS-120....M



ELGL-LAS-120....L



— Speed m/s  
- - - Current A

- Note

The characteristics are produced in combination with the relevant motor controllers CMMP-AS → 21

# Linear drives ELGL-LAS, with air bearing and linear motor

Technical data

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## Mounting options

The stator has an evenness value of 7 µm over 300 mm. To ensure the quality of the air bearing, the mounting surface must be correspondingly precise.

For points of support with smooth surfaces, the linear drive can be mounted directly at the stator [1] or with the help of the foot mountings [2].

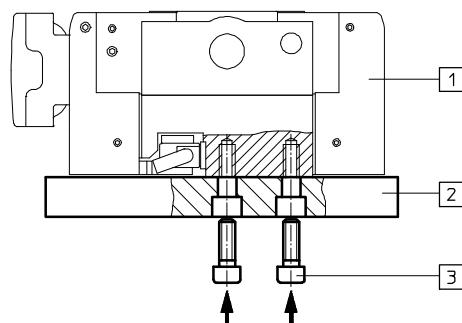
If the surface is not sufficiently even, the foot mounting [3] is used together with the adjustable foot mounting [4].

A 3 or 4-point mounting is recommended to secure the load.

### [1] Direct mounting

Range of application:

- Only with smooth surface (e.g. granite table)
- Required planarity:  
7 µm over 300 mm

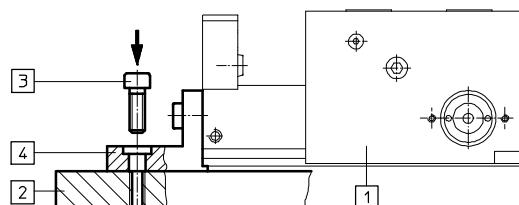


[1] Linear drive  
[2] Mounting surface  
[3] Socket head screw

### [2] Angled foot mounting

Range of application:

- Only with smooth surface (e.g. granite table)
- Up to a stator length of max. 500 mm
- Manual height adjustment may be required



[1] Linear drive  
[2] Mounting surface  
[3] Socket head screw  
[4] Foot mounting EAHF-...

# Linear drives ELGL-LAS, with air bearing and linear motor

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Technical data

## Mounting options

The stator has an evenness value of 7 µm over 300 mm. To ensure the quality of the air bearing, the mounting surface must be correspondingly precise.

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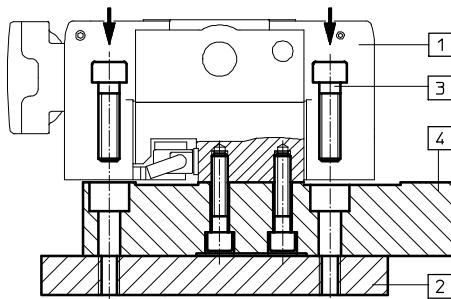
If the surface is not sufficiently even, the foot mounting [3] is used together with the adjustable foot mounting [4].

A 3 or 4-point mounting is recommended to secure the load.

### [3] Foot mounting

Range of application:

- With milled surface (good evenness)
- Recommended support spacing: every 360 mm
- Manual height adjustment may be required

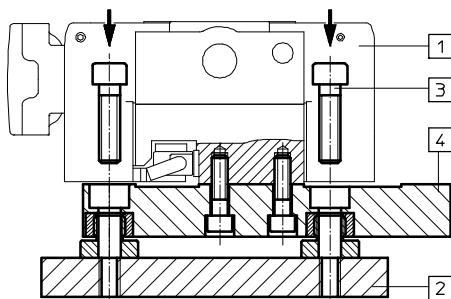


- [1] Linear drive
- [2] Mounting surface
- [3] Socket head screw
- [4] Foot mounting EAHF-...-P

### [4] Adjustable foot mounting

Range of application:

- With surface with low evenness
- Recommended support spacing: every 360 mm



- [1] Linear drive
- [2] Mounting surface
- [3] Socket head screw
- [4] Foot mounting EAHF-...-PJ

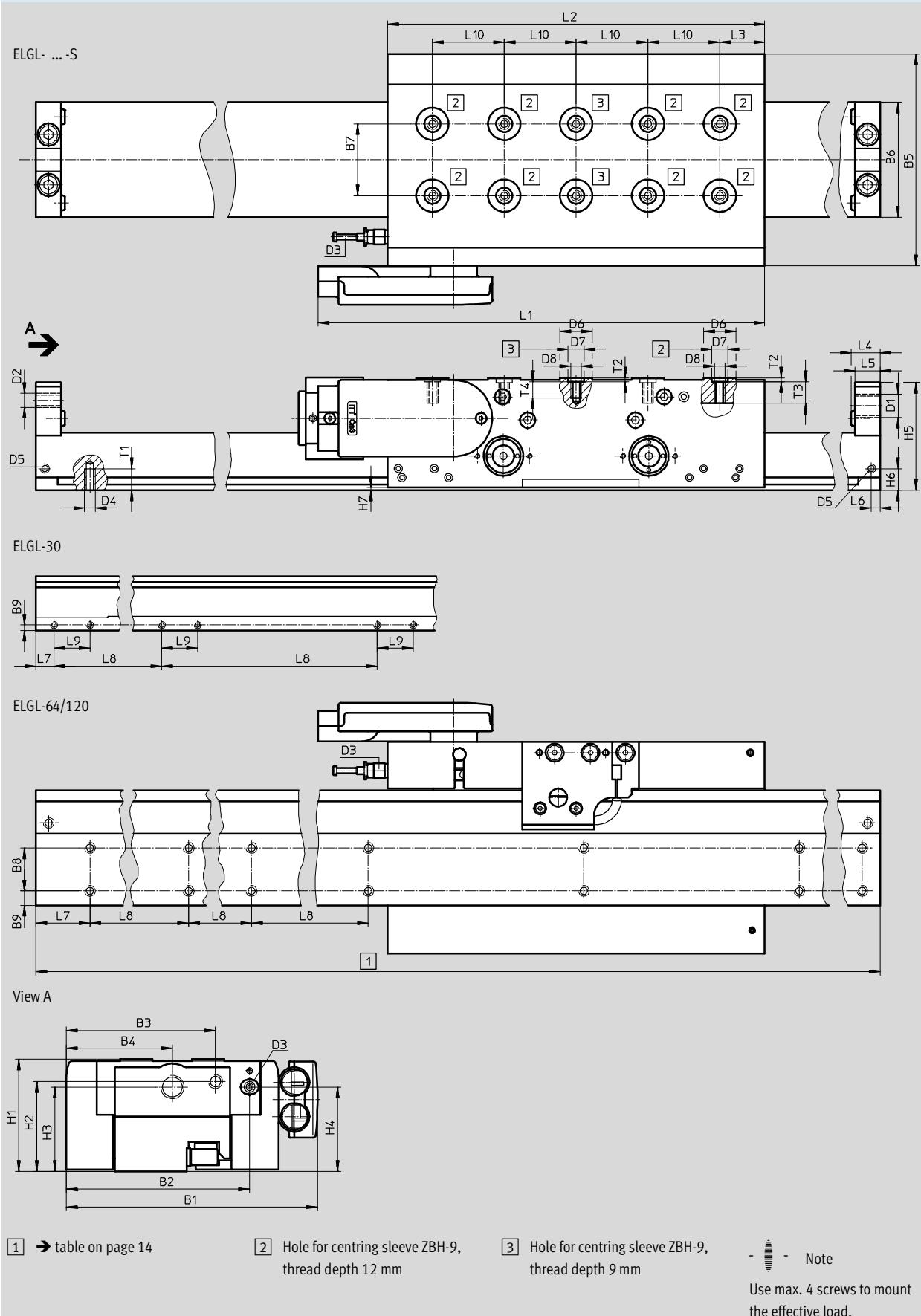
# Linear drives ELGL-LAS, with air bearing and linear motor

Technical data

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## Dimensions

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



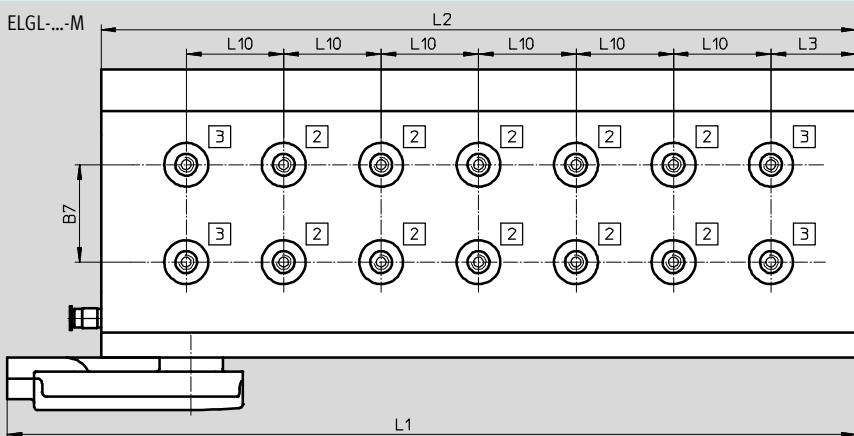
# Linear drives ELGL-LAS, with air bearing and linear motor

**FESTO**

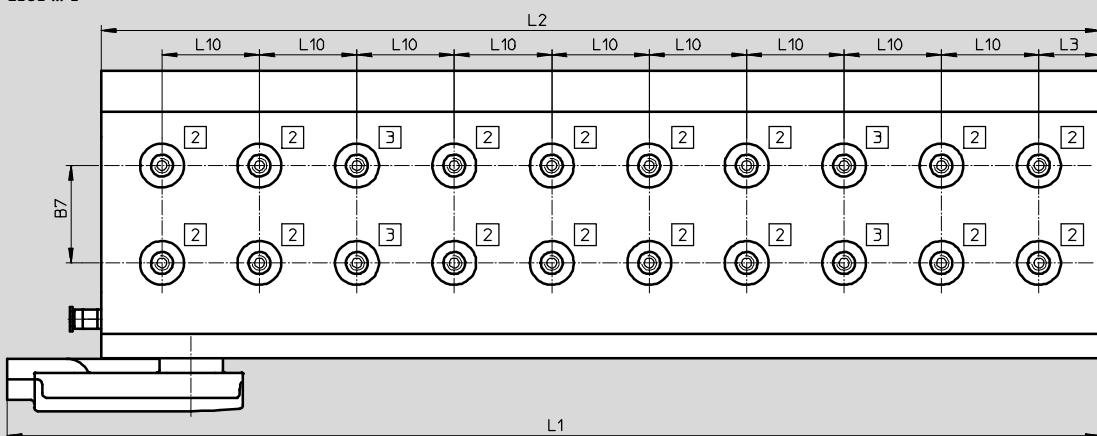
Technical data

## Dimensions

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



ELGL-...-L



Size	B1	B3	B4	B5	B6	B7	B8	B9	D1	D2	D4	D5	D6	D7	D8	H1
$\pm 0.01$																
30	105.8	—	42	84	30	20	—	3	M10x1	—	M4	M5	18	9	M6	62
64	139.8	83.5	59	118	64	40	24	8	M14x1	M8x1	M6	M5	18	9	M6	62
120	195.8	111.5	87	174	120	80	72	12	M14x1	M8x1	M6	M5	18	9	M6	62

Size	H2	H3	H4	H5	H6	H7	L4	L5	L6	L7	L8	L9	L10	T1	T2	T3	T4
$\pm 0.01$																	
30	—	46.5	47	58	12	1	20	17	5	10	120	20	40	10	2.1	12	9
64	50	47	47	60	12	1	16	14	5	30	120	—	40	12	2.1	12	9
120	50	47	52	60	12	1	16	14	5	30	120	—	40	12	2.1	12	9

Size	Rotor variant	B2	D3		L1	L2	L3
			QS push-in fitting	For tubing O.D.			
30	S	68	QSM-M5-4	4	248.6	210	25
64	S	102	QSM-M5-4	4	248.6	210	25
	M	102	QSM-M5-4	4	348.6	310	35
120	S	158	QSM-M5-4	4	248.6	210	25
	M	158	QSM-M5-4	4	348.6	310	35
	L	154	QSM-1/8-6	6	453.1	410	25

# Linear drives ELGL-LAS, with air bearing and linear motor

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Technical data

Total length of the drive with one slide						
Size	30	64	120			
Slide variant	S	S	M	S	M	L
Work stroke [mm]						
100	360	350	450	350	450	550
200	460	450	550	450	550	650
300	560	550	650	550	650	765
400	660	650	765	650	765	850
500	765	765	850	765	850	950
600	860	850	950	850	950	1050
700	960	950	1050	950	1050	1150
800	-	1050	1150	1050	1150	1250
900	-	1150	1250	1150	1250	1365
1000	-	1250	1365	1250	1365	1450
1100	-	1365	1450	1365	1450	1550
1200	-	1450	1550	1450	1550	1650
1300	-	1550	1650	1550	1650	1750
1400	-	1650	1750	1650	1750	1850
1500	-	1750	1850	1750	1850	1965
1600	-	1850	1965	1850	1965	-
1700	-	1965	-	1965	-	-

- - Note

Total length for other variants  
on request.

# Linear drives ELGL-LAS, with air bearing and linear motor

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Ordering data – Modular products

**Ordering table**

Size	30	64	120	Condi-tions	Code	Enter code
[M] Module No.	560753	560754	560755			
Function	Electrical linear drive				ELGL	ELGL
Drive type	Linear motor				-L	-L
Motor technology	AC synchronous				AS	AS
Size [mm]	30				-30	
		64			-64	
			120		-120	
Stroke [mm]	1 ... 740	1 ... 1750		[1]	-...	
Slide 1	Double coil system, 3 strings				-S	
		Triple coil system, 3 strings			-M	
			Quadruple coil system, 3 strings		-L	
[O] Slide 2	None					
	Double coil system, 3 strings				-S	
		Triple coil system, 3 strings			-M	
			Quadruple coil system, 3 strings		-L	
Slide 3	None					
	Double coil system, 3 strings				-S	
		Triple coil system, 3 strings			-M	
			Quadruple coil system, 3 strings		-L	
Slide 4	None					
	Double coil system, 3 strings				-S	
		Triple coil system, 3 strings			-M	
			Quadruple coil system, 3 strings		-L	
[M] Electrical connection	Angled plug, rotatable				-R	-R
Measuring unit	Encoder				E	E
Electrical interface	Serial bi-directional (BiSS)				-B	-B
[O] Mounting attachments	None					
	Foot mounting			[2]	-F	

[1] Stroke For sizes 64 and 120: 1750 ... 5750 mm on request

[2] F Can be selected with stator length <500 mm

Transfer order code

\_\_\_\_\_ - ELGL - LAS - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - RE - B - \_\_\_\_\_

# Linear drives ELGL-LAS, with air bearing and linear motor

Accessories

**FESTO**

## Foot mounting EAHF

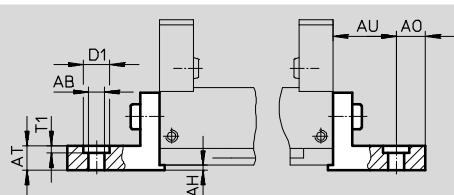
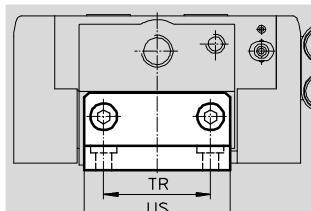
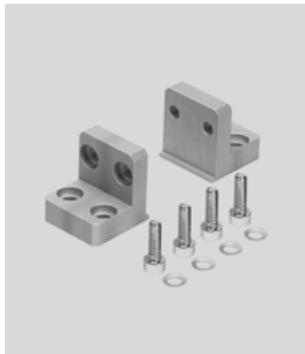
2 included in the scope of delivery

Material:

Aluminium

Contains PWIS (paint-wetting impairment substances)

RoHS-compliant



Note  
Can only be used with stator lengths of max. 500 mm.

## Dimensions and ordering data

For size	AB	AH -01	A0	AT	AU	D1	T1	TR	US	CRC <sup>1)</sup>	Weight [g]	Part No.	Type
30	5.5	2	10	10	18	10	3	18	29	1	180	564252	EAHF-L1-30
64	6.5	2	12	10	26	11	3	44	60	1	400	564253	EAHF-L1-64
120	6.5	2	12	10	26	11	3	78	94	1	600	564254	EAHF-L1-120

1) Corrosion resistance class CRC 1 to Festo standard FN 940070

Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

## Foot mounting EAHF-...-P

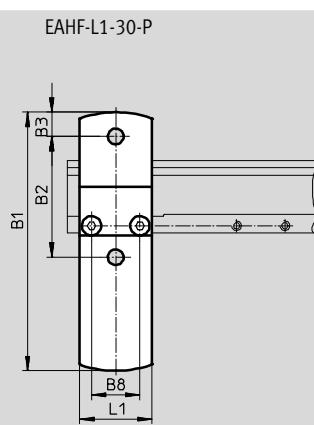
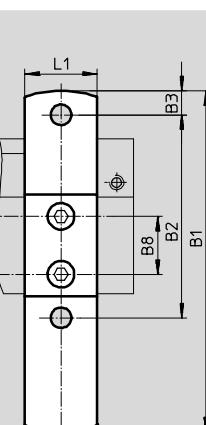
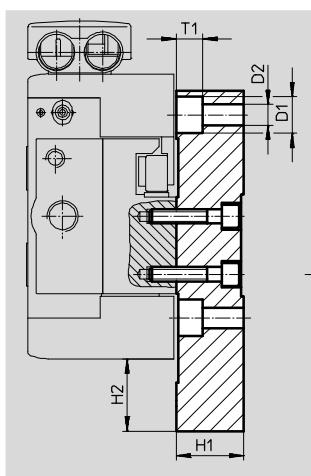
2 included in the scope of delivery

Material:

Aluminium

Contains PWIS (paint-wetting impairment substances)

RoHS-compliant



EAHF-L1-30-P

## Dimensions and ordering data

For size	B1	B2	B3	B8	D1	D2	H1 -001	H2	L1	CRC <sup>1)</sup>	Weight [g]	Part No.	Type
30	107	50	10	20	11	6.5	28	30	30	1	250	564246	EAHF-L1-30-P
64	141	84	10	24	15	8.5	28	30	30	1	310	564247	EAHF-L1-64-P
120	197	140	10	72	15	8.5	28	30	30	1	450	564248	EAHF-L1-120-P

1) Corrosion resistance class CRC 1 to Festo standard FN 940070

Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

# Linear drives ELGL-LAS, with air bearing and linear motor

**FESTO**

Accessories

## Adjustable foot mounting

**EAHF-...-PJ**

1 included in the scope of delivery

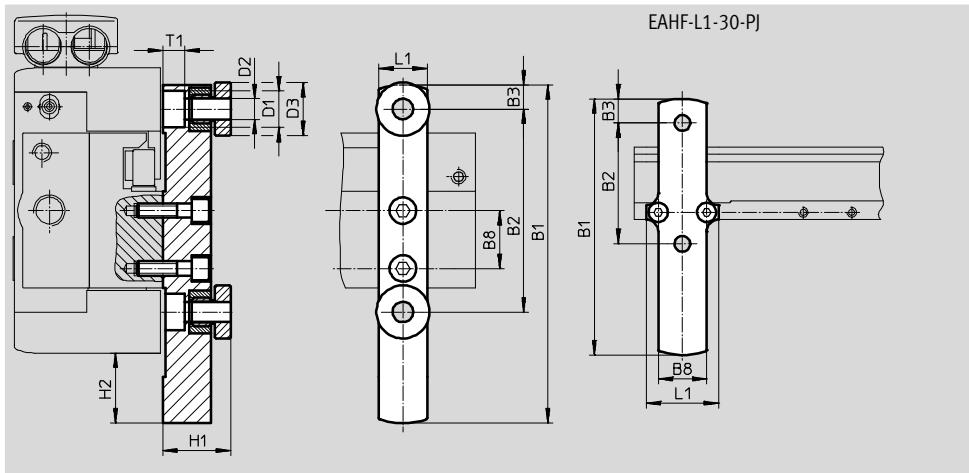
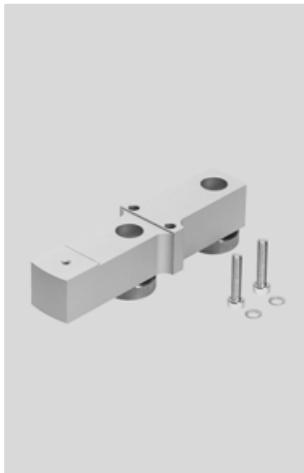
Material:

Aluminium

Contains PWIS (paint-wetting

impairment substances)

RoHS-compliant



## Dimensions and ordering data

For size	B1	B2	B3	B8	D1	D2	D3	H1	H2	L1	CRC <sup>1)</sup>	Weight [g]	Part No.	Type
30	106	50	10	20	11	6.5	22	28	29	30	1	210	<b>564249</b>	<b>EAHF-L1-30-PJ</b>
64	140	84	10	24	15	8.5	22	28	29	20	1	230	<b>564250</b>	<b>EAHF-L1-64-PJ</b>
120	196	140	10	72	15	8.5	22	28	29	20	1	260	<b>564251</b>	<b>EAHF-L1-120-PJ</b>

1) Corrosion resistance class CRC 1 to Festo standard FN 940070

Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

# Linear drives ELGL-LAS, with air bearing and linear motor

Accessories

**FESTO**

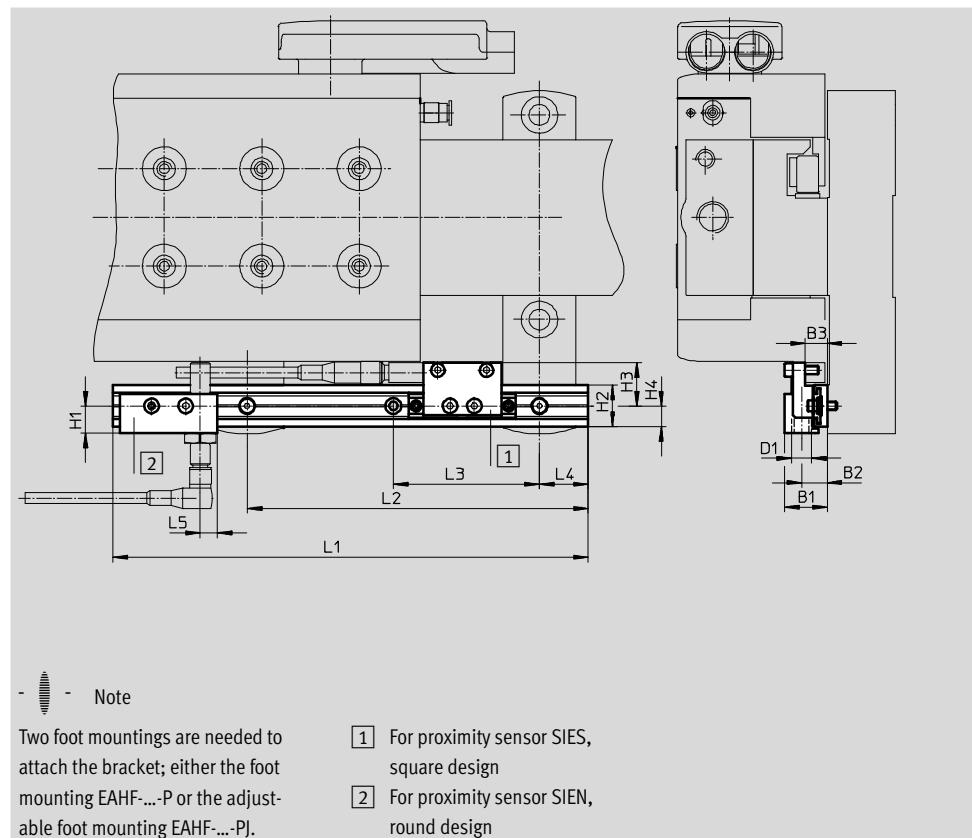
## Sensor bracket EAPR

Material:

Aluminium

Contains PWIS (paint-wetting impairment substances)

RoHS-compliant



## Dimensions and ordering data

For size	B1	B2	B3	D1	H1	H2	H3	H4
30, 64, 120	17.5	10.5	9	M8	11.2	17	17.7	8.5

For size	L1	L2	L3	L4	L5	CRC <sup>1)</sup>	Weight [g]	Part No.	Type
30, 64, 120	195	140	60	20	7	1	75	564259	EAPR-L1-S

1) Corrosion resistance class CRC 1 to Festo standard FN 940070

Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

# Linear drives ELGL-LAS, with air bearing and linear motor

FESTO

Accessories

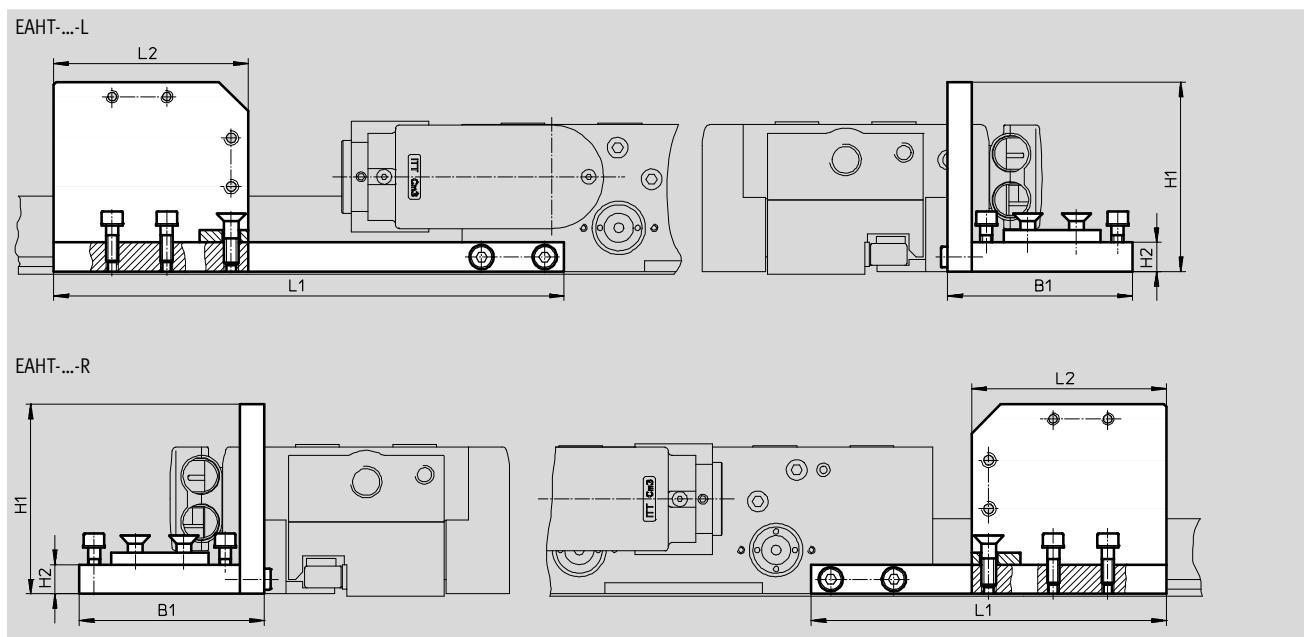
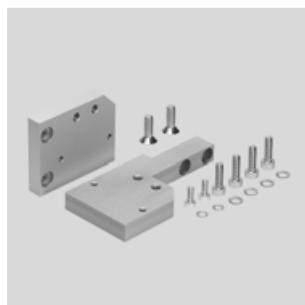
## Mounting kit EAHT

Material:

Aluminium

Contains PWIS (paint-wetting impairment substances)

RoHS-compliant



## Dimensions and ordering data

For size	B1	H1	H2	L1	L2	CRC <sup>1)</sup>	Weight [g]	Part No.	Type
For energy chain type: E6.29									
30, 64, 120	60	62	12	170	50	1	300	564255	EAHT-L1-E6-29-L
	60	62	12	105	50	1	300	564256	EAHT-L1-E6-29-R
For energy chain type: E6.40									
30, 64, 120	76	78	12	210	80	1	400	564257	EAHT-L1-E6-40-L
	76	78	12	146	80	1	400	564258	EAHT-L1-E6-40-R

1) Corrosion resistance class CRC 1 to Festo standard FN 940070

Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

# Linear drives ELGL-LAS, with air bearing and linear motor

Accessories

**FESTO**

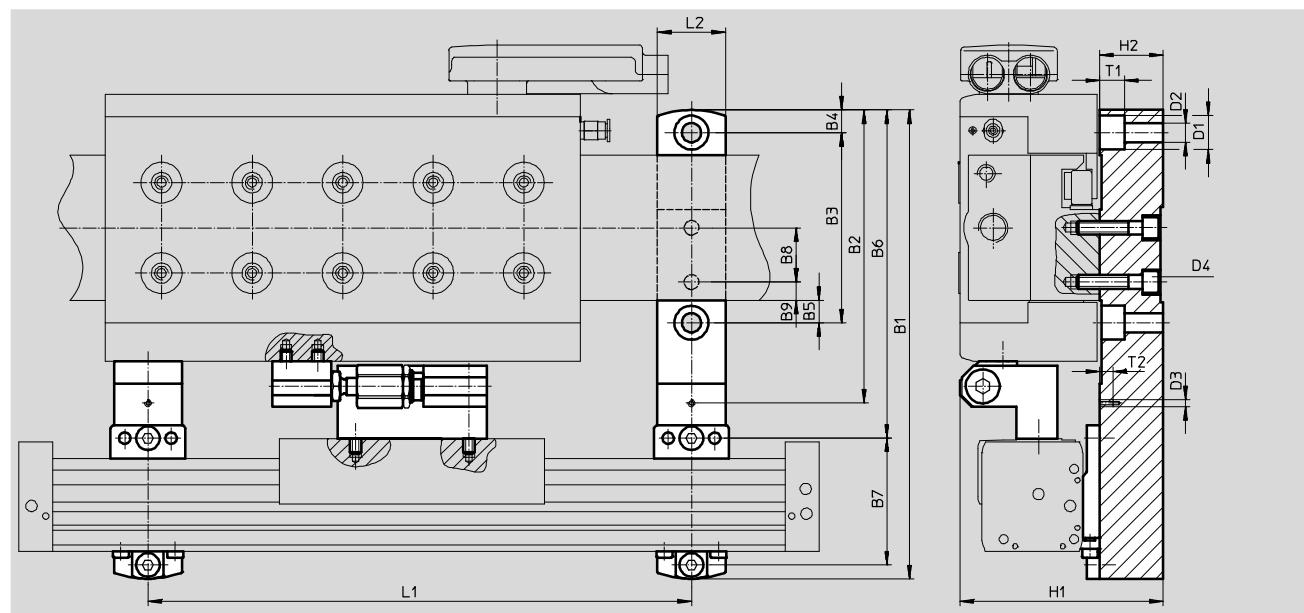
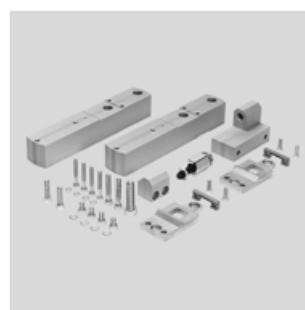
## Mounting kit EAHC

Material:

Aluminium

Contains PWIS (paint-wetting impairment substances)

RoHS-compliant



## Dimensions and ordering data

For size	B1	B2	B3	B4	B5	B6	B7	B8	B9	D1 Ø	D2 Ø	D3	D4
30	173	95.5	50	10	10	111	56	—	3	11	6.5	M3	M4
64	207	129.5	84	10	10	145	56	24	8	15	8.5	M3	M6
120	263	185.5	140	10	10	201	56	72	12	15	8.5	M3	M6

For size	H1	H2	L1	L2	L3	T1	T2	CRC <sup>1)</sup>	Weight [g]	Part No.	Type
30	89.6	28	nx120	30	20	8	6	1	960	564260	EAHC-L1-30
64	89.6	28	nx120	30	—	11	6	1	1100	564261	EAHC-L1-64
120	89.6	28	nx120	30	—	11	6	1	1350	564262	EAHC-L1-120

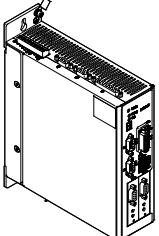
1) Corrosion resistance class CRC 1 to Festo standard FN 940070

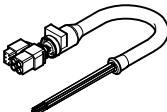
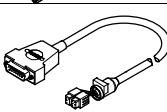
Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

# Linear drives ELGL-LAS, with air bearing and linear motor

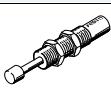
FESTO

Accessories

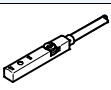
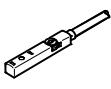
Ordering data – Motor controller			Technical data → Internet: cmmmp	
	For size	Coil system (code)	Part No.	Type
	ELGL-LAS-30....	S	1501326	CMMMP-AS-C5-3A-M3
	ELGL-LAS-64...-S	S	1501326	CMMMP-AS-C5-3A-M3
	ELGL-LAS-64...-M	M	1501327	CMMMP-AS-C5-11A-P3-M3
	ELGL-LAS-120....	S; M; L	1501328	CMMMP-AS-C10-11A-P3-M3

Ordering data – Cables			Cable length [m]	Part No.	Type
	Brief description				
	Motor cable, for connecting motor and controller	5	550306	NEBM-T1G7-E-5-N-LE7	
		10	550307	NEBM-T1G7-E-10-N-LE7	
		15	550308	NEBM-T1G7-E-15-N-LE7	
		X length <sup>1)</sup>	550309	NEBM-T1G7-E- -N-LE7	
	Encoder cable, for connecting motor and controller	5	550314	NEBM-T1G8-E-5-N-S1G15	
		10	550315	NEBM-T1G8-E-10-N-S1G15	
		15	550316	NEBM-T1G8-E-15-N-S1G15	
		X length <sup>1)</sup>	550317	NEBM-T1G8-E- -N-S1G15	

1) Max. 25 m

Ordering data			Part No.	Type	PU <sup>1)</sup>
Shock absorber YSRW					Technical data → Internet: ysrw
	30	For avoiding damage at the end stop in the event of malfunction			191193 YSRW-7-10
	64, 120				191195 YSRW-10-17
Centring sleeve ZBH					
	30, 64, 120	For slide	150927	ZBH-9	10

1) Packaging unit quantity

Ordering data – Proximity sensors, inductive			Technical data → Internet: sies			
	Type of mounting	Switching output	Electrical connection	Cable length [m]	Part No.	Type
N/O contact						
	Is screwed on via mounting attachment	PNP	Cable, 3-wire	2.5	178294	SIES-Q8B-PS-K-L
			Plug M8x1, 3-pin	0.3	178295	SIES-Q8B-PS-S-L
N/C contact						
	Is screwed on via mounting attachment	PNP	Cable, 3-wire	2.5	174552	SIES-Q8B-PO-K-L
			Plug M8x1, 3-pin	0.3	174553	SIES-Q8B-PO-S-L

# Linear drives ELGL-LAS, with air bearing and linear motor

Accessories

**FESTO**

Ordering data – Inductive proximity sensors M8						Technical data → Internet: sien	
	Electrical connection	Switching output	LED	Cable length [m]	Part No.	Type	
<b>N/O contact</b>							
	3-wire	-	PNP	■	2.5	<b>150386</b>	<b>SIEN-M8B-PS-K-L</b>
	-	3-pin	PNP	■	-	<b>150387</b>	<b>SIEN-M8B-PS-S-L</b>
<b>N/C contact</b>							
	3-wire	-	PNP	■	2.5	<b>150390</b>	<b>SIEN-M8B-PO-K-L</b>
	-	3-pin	PNP	■	-	<b>150391</b>	<b>SIEN-M8B-PO-S-L</b>

Ordering data – Connecting cables						Technical data → Internet: nebu	
	Electrical connection, left	Electrical connection, right	Cable length [m]	Part No.	Type		
	Straight socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	<b>541333</b>	<b>NEBU-M8G3-K-2.5-LE3</b>		
			5	<b>541334</b>	<b>NEBU-M8G3-K-5-LE3</b>		
	Angled socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	<b>541338</b>	<b>NEBU-M8W3-K-2.5-LE3</b>		
			5	<b>541341</b>	<b>NEBU-M8W3-K-5-LE3</b>		

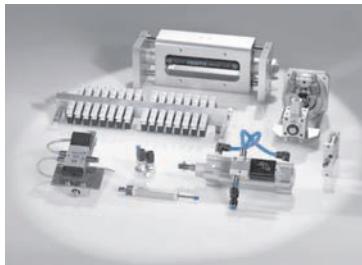
Ordering data						Technical data → Internet: quick star	
	For size	Connection	Description	Part No.	Type	PU <sup>1)</sup>	
		Threaded	O.D.				
<b>Push-in fitting QSM</b>							
	30	M5	4	For connecting compressed air tubing with standard external diameters	<b>153304</b>	<b>QSM-M5-4</b>	10
	64....S	M5	4				
	64....M	M5	4				
	120....S	M5	4				
	120....M	M5	4				
	120....L	G1/8	6		<b>153307</b>	<b>QSM-1/8-6</b>	
<b>Blanking plug QSC-...H</b>							
	30	-	4	For closing off QS push-in connections	<b>153267</b>	<b>QSC-4H</b>	10
	64....S	-	4				
	64....M	-	4				
	120....S	-	4				
	120....M	-	4				
	120....L	-	6		<b>153268</b>	<b>QSC-6H</b>	

1) Packaging unit quantity

## Product Range and Company Overview

### A Complete Suite and Company Overview

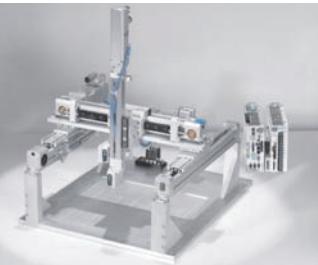
Our experienced engineers provide complete support at every stage of your development process, including: conceptualization, analysis, engineering, design, assembly, documentation, validation, and production.



**Custom Automation Components**  
Complete custom engineered solutions



**Custom Control Cabinets**  
Comprehensive engineering support  
and on-site services



**Complete Systems**  
Shipment, stocking and storage services

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With a comprehensive line of more than 30,000 automation components, Festo is capable of solving the most complex automation requirements.



**Electromechanical**  
Electromechanical actuators, motors,  
controllers & drivers



**Pneumatics**  
Pneumatic linear and rotary actuators,  
valves, and air supply



**PLCs and I/O Devices**  
PLC's, operator interfaces, sensors  
and I/O devices

### Supporting Advanced Automation... As No One Else Can!

Festo is a leading global manufacturer of pneumatic and electromechanical systems, components and controls for industrial automation, with more than 16,000 employees in 60 national headquarters serving more than 180 countries. For more than 80 years, Festo has continuously elevated the state of manufacturing with innovations and optimized motion control solutions that deliver higher performing, more profitable automated manufacturing and processing equipment. Our dedication to the advancement of automation extends beyond technology to the education and development of current and future automation and robotics designers with simulation tools, teaching programs, and on-site services.

### Quality Assurance, ISO 9001 and ISO 14001 Certifications

Festo Corporation is committed to supply all Festo products and services that will meet or exceed our customers' requirements in product quality, delivery, customer service and satisfaction.

To meet this commitment, we strive to ensure a consistent, integrated, and systematic approach to management that will meet or exceed the requirements of the ISO 9001 standard for Quality Management and the ISO 14001 standard for Environmental Management.



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