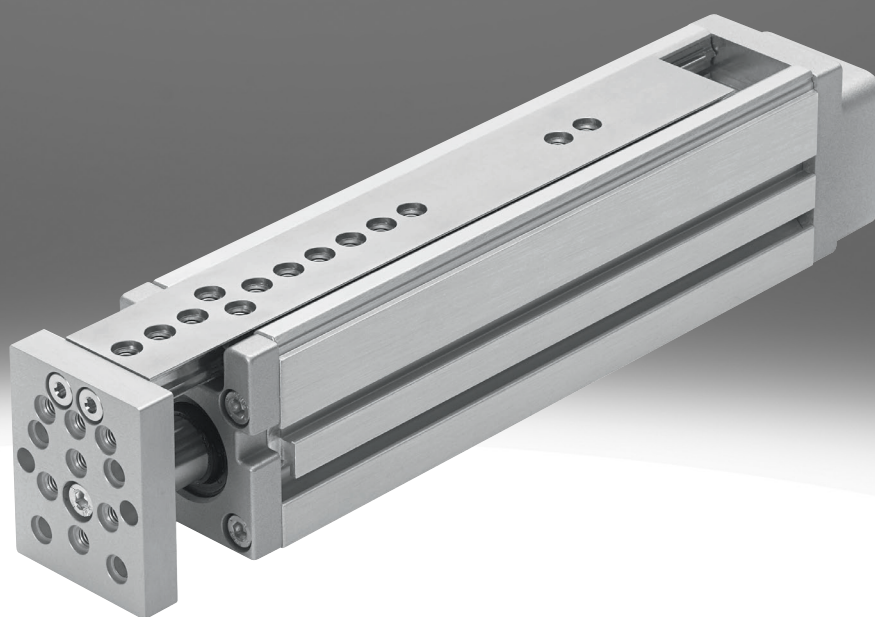


Mini slide EGSL

FESTO



Characteristics

At a glance

- Electric mini slide
- Compact design
- High dynamic response
- High precision
- Ideal for vertical applications

Optional homing:

- On fixed stop
- On homing switch

Engineering tools

[Link](#) [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 achieving this goal. 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 that 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

[Link](#) [egsl](#)



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

Spindle pitch

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

Type code

001	Series	
EGSL	Mini slide	

002	Drive system	
BS	Ball screw drive	

003	Size	
35	35	
45	45	
55	55	
75	75	

004	Stroke [mm]	
50	50	
100	100	
200	200	
250	250	
300	300	

005	Spindle pitch	
3P	3 mm	
5P	5 mm	
8P	8 mm	
10P	10 mm	
12.7P	12.7 mm	
20P	20 mm	

Datasheet

General technical data							
Size	35	45		55		75	
Spindle pitch	8 mm/U	3 mm/U	10 mm/U	5 mm/U	12.7 mm/U	10 mm/U	20 mm/U
Design	Electric mini slide Guidance With ball screw drive						
Guide	Ball bearing cage guide						
Type of mounting	Via female thread Via centring sleeve With accessories						
Mounting position	optional						
Working stroke	50 mm	100 mm, 200 mm		100 mm, 200 mm, 250 mm		100 mm, 200 mm, 300 mm	
Reference value effective load, horizontal	2 kg	6 kg		10 kg		14 kg	
Reference value effective load, vertical	2 kg	6 kg		10 kg		14 kg	
Continuous feed force	50 N	100 N		200 N		300 N	
Max. feed force F _x	75 N	150 N		300 N		450 N	
Frictional torque independent of load	0.015 Nm	0.09 Nm	0.08 Nm	0.15 Nm	0.13 Nm	0.25 Nm	0.155 Nm
Max. drive torque ¹⁾	0.127 Nm	0.205 Nm	0.415 Nm		1.017 Nm	1.654 Nm	2.231 Nm
Max. radial force at drive shaft	20 N	120 N		260 N		300 N	
Max. speed	0.5 m/s	0.3 m/s	1 m/s	0.4 m/s	1 m/s	0.65 m/s	1.3 m/s
Max. acceleration ²⁾	25 m/s ²						
Repetition accuracy	±0.015 mm						
Reversing backlash theoretical ³⁾	50 µm						

1) Friction and acceleration torque of the rotating mass taken into consideration

2) The max. acceleration is dependent on the moving mass, the driving torque and the max. feed force

3) In new condition

Operating and environmental conditions				
Size	35	45	55	75
Ambient temperature	0 ... 60°C			
Degree of protection	IP40			
Duty cycle	100%			
Sound pressure level	60 dB(A)		65 dB(A)	
Maintenance interval	Life-time lubrication			

Weights for size 34, 45					
Size	35	45			
Spindle pitch	8 mm/U	3 mm/U		10 mm/U	
Working stroke	50 mm	100 mm	200 mm	100 mm	200 mm
Product weight	570 g	1,540 g	2,160 g	1,570 g	2,190 g
Moving mass	270 g	640 g	910 g	670 g	940 g

Weight												
Size	55						75					
Spindle pitch	5 mm/U			12.7 mm/U			10 mm/U			20 mm/U		
Working stroke	100 mm	200 mm	250 mm	100 mm	200 mm	250 mm	100 mm	200 mm	300 mm	100 mm	200 mm	300 mm
Product weight	2,470 g	3,480 g	3,950 g	2,550 g	3,400 g	4,050 g	5,100 g	6,520 g	8,050 g	5,100 g	6,520 g	8,050 g
Moving mass	1,070 g	1,420 g	1,660 g	1,150 g	1,490 g	1,740 g	2,280 g	2,850 g	3,440 g	2,280 g	2,850 g	3,440 g

Datasheet

Mass moment of inertia for size 34, 45

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

The mass moment of inertia J of the mini slide is calculated as follows.
m = moving payload

Size	35	45			
Spindle pitch	8 mm/U	3 mm/U		10 mm/U	
Working stroke	50 mm	100 mm	200 mm	100 mm	200 mm
Mass moment of inertia J _O	0.0426 kgcm ²	0.0459 kgcm ²	0.0514 kgcm ²	0.0614 kgcm ²	0.0731 kgcm ²
Mass moment of inertia J _L per kg of working load	0.0162 kgcm ²	0.0023 kgcm ²		0.0253 kgcm ²	

Mass moment of inertia for size 55

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

The mass moment of inertia J of the mini slide is calculated as follows.
m = moving payload

Size	55					
Spindle pitch	5 mm/U			12.7 mm/U		
Working stroke	100 mm	200 mm	250 mm	100 mm	200 mm	250 mm
Mass moment of inertia J _O	0.1352 kgcm ²	0.1477 kgcm ²	0.1574 kgcm ²	0.1827 kgcm ²	0.2113 kgcm ²	0.2327 kgcm ²
Mass moment of inertia J _L per kg of working load	0.0063 kgcm ²		0.006 kgcm ²	0.0409 kgcm ²		0.041 kgcm ²

Mass moment of inertia for size 75

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

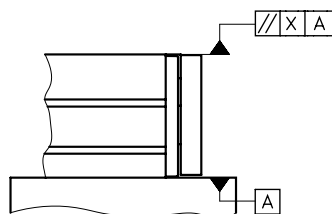
The mass moment of inertia J of the mini slide is calculated as follows.
m = moving payload

Size	75					
Spindle pitch	10 mm/U			20 mm/U		
Working stroke	100 mm	200 mm	300 mm	100 mm	200 mm	300 mm
Mass moment of inertia J _O	0.8695 kgcm ²	0.9649 kgcm ²	1.0667 kgcm ²	1.0512 kgcm ²	1.1945 kgcm ²	1.3459 kgcm ²
Mass moment of inertia J _L per kg of working load	0.0253 kgcm ²	0.00253 kgcm ²	0.0253 kgcm ²	0.1013 kgcm ²		

Materials

Material yoke plate	Wrought aluminium alloy, Anodised
Material guide rail	Rolled steel
Material housing	Wrought aluminium alloy, Anodised
Material spindle	Rolled steel
Material spindle nut	Rolled steel
Material cover	Die-cast aluminium, Painted
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364 zone III

Parallelism

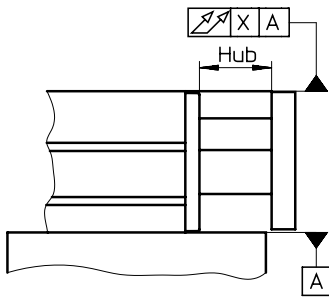


The term parallelism refers to the alignment accuracy between the mounting surface and the slide surface. Specifications apply in a retracted state.

For EGSL-35-50: 0.03 mm
 For EGSL-45-100: 0.05 mm
 For EGSL-45-200: 0.1 mm
 For EGSL-55-100: 0.05 mm
 For EGSL-55-200: 0.1 mm
 For EGSL-55-250: 0.125 mm
 For EGSL-75-100: 0.05 mm
 For EGSL-75-200: 0.1 mm
 For EGSL-75-300: 0.15 mm

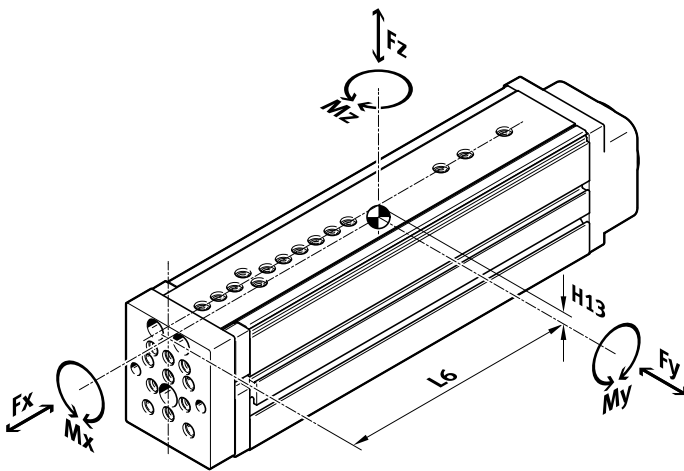
Datasheet

Linearity



Linearity refers to the max. difference between the normal position and the reference plane experienced at any point of the moving axis component (e.g. slide) when traversing the entire stroke.

For EGSL-35-50: 0.02 mm
 For EGSL-45-100: 0.04 mm
 For EGSL-45-200: 0.08 mm
 For EGSL-55-100: 0.04 mm
 For EGSL-55-200: 0.08 mm
 For EGSL-55-250: 0.1 mm
 For EGSL-75-100: 0.04 mm
 For EGSL-75-200: 0.08 mm
 For EGSL-75-300: 0.12 mm

Permissible forces and torques for the guide calculation with a service life of 5×10^6 cycles and max. stroke

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.

Distance to the centre of the guide:

Dimension L6:

EGSL-35-50 (retracted/advanced): 83 mm/106 mm
 EGSL-45-100 (retracted/advanced): 114 mm/162 mm
 EGSL-45-200 (retracted/advanced): 164 mm/262 mm
 EGSL-55-100 (retracted/advanced): 132 mm/180 mm
 EGSL-55-200 (retracted/advanced): 182 mm/280 mm
 EGSL-55-250 (retracted/advanced): 221 mm/344 mm
 EGSL-75-100 (retracted/advanced): 139 mm/187 mm
 EGSL-75-200 (retracted/advanced): 189 mm/287 mm
 EGSL-75-300 (retracted/advanced): 241 mm/389 mm

Dimension H13:

EGSL-35: 4.2 mm
 EGSL-45: 6.4 mm
 EGSL-55: 6.4 mm
 EGSL-75: 7.6 mm

Size	35	45		55			75		
Working stroke	50	100	200	100	200	250	100	200	300
Max. force Fy	512 N	631 N	291 N	1,047 N	490 N	563 N	1,539 N	714 N	555 N
Max. force Fz	512 N	631 N	291 N	1,047 N	490 N	563 N	1,539 N	714 N	555 N
Max. moment Mx	6.2 Nm	18.6 Nm	14.3 Nm	33.1 Nm	24.2 Nm	27 Nm	67.4 Nm	48.5 Nm	46.4 Nm
Max. moment My	6 Nm	16.3 Nm	12.3 Nm	31 Nm	22.6 Nm	33 Nm	47.1 Nm	33.8 Nm	36.5 Nm
Max. moment Mz	6 Nm	16.3 Nm	12.3 Nm	31 Nm	22.6 Nm	33 Nm	47.1 Nm	33.8 Nm	36.5 Nm

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.

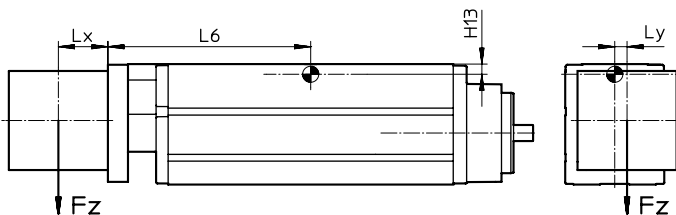
The engineering software “Electric Motion Sizing” is available for more precise calculations.

F1 / M1 = dynamic value

F2 / M2 = maximum value

Datasheet

Position of the guide centre



Calculation example

Assuming:

EGSL-BS-45-100-10P

Stroke = 100 mm

Lever arm $L_x = 30$ mm

Lever arm $L_y = 10$ mm

Mass $F_z = 5$ kg

Acceleration $a = 0$ m/s²

Mounting position: horizontal

To be determined:

Permissible forces and torques

Service life estimate

Solution:

$L_6 = 0.162$ m (from table)

$F_y = 0$ N

$F_z = m \times g = 5 \text{ kg} \times 9.81 \text{ m/s}^2 = 49.05$ N

$M_x = F_z \times L_y = 49.05 \text{ N} \times 0.01 \text{ m} = 0.4905$ Nm

$M_y = F_z \times (L_6 + L_x) = 49.05 \text{ N} \times (0.162 \text{ m} + 0.03 \text{ m}) = 9.42$ Nm

$M_z = 0$ Nm

Using the formula 'load comparison factor' gives a value of $f_v = 0.68$.

Using the graph (below), this results in a service life of 30 million cycles.

Service life of the guide

The service life of the guide depends on the load. To be able to provide an indication about the service life of the guide, the graph below plots the load comparison factor f_v against the service life.

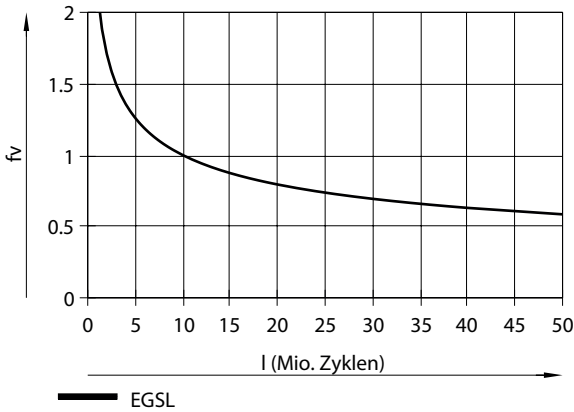
These values are only theoretical. You must consult your local Festo contact for a load comparison factor f_v greater than 1.5.

Example:

A user wants to move a X kg load. The calculation gives a value of 1.5 for the load comparison factor f_v . According to the graph, the guide has a service life of approx. 1.5×10^6 cycles. Reducing the acceleration reduces the M_z and M_y values. A load comparison factor f_v of 1 now gives a service life of 5×10^6 cycles.

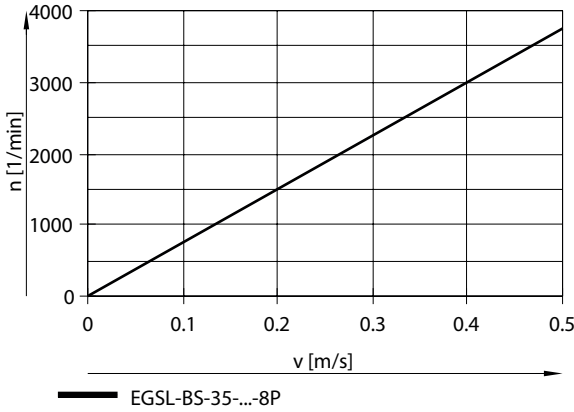
Datasheet

Service life of the guide

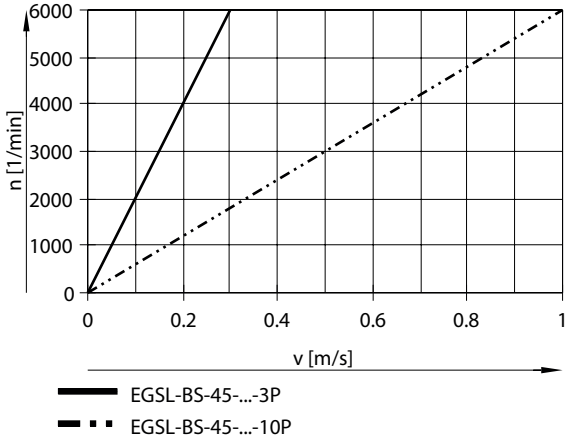


The service life of the guide depends on the load. To be able to make a statement about the service life of the guide, the graph below plots the load comparison factor f_v against the service life. These values are only theoretical. You must consult your local Festo contact for a load comparison factor f_v greater than 1.5. 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 has a service life of approx. 1.5×10^6 cycles. Reducing the acceleration reduces the M_z and M_y values. A load comparison factor f_v of 1 now results in a service life of 5×10^6 cycles.

Rotational speed n as a function of feed speed v for size 35

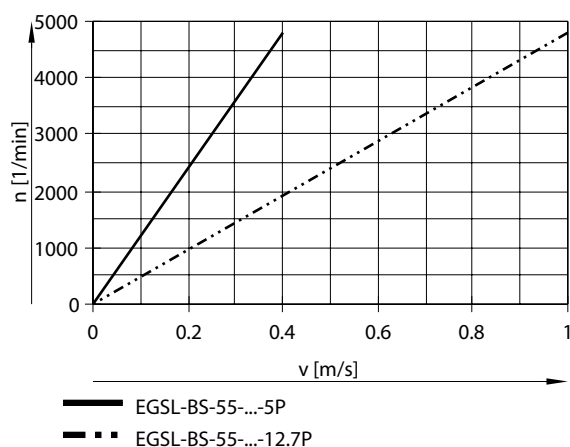


Rotational speed n as a function of feed speed v for size 45

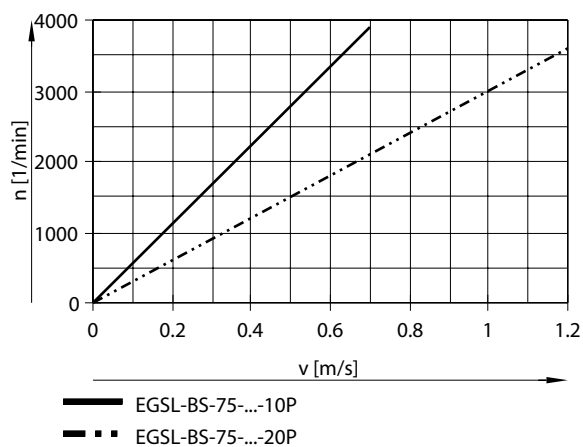


Datasheet

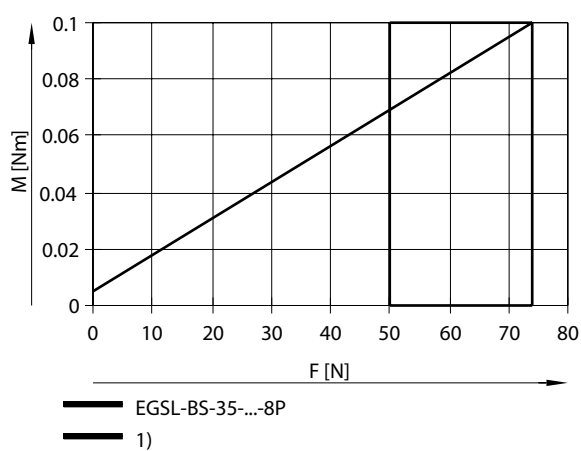
Rotational speed n as a function of feed speed v for size 55



Rotational speed n as a function of feed speed v for size 75



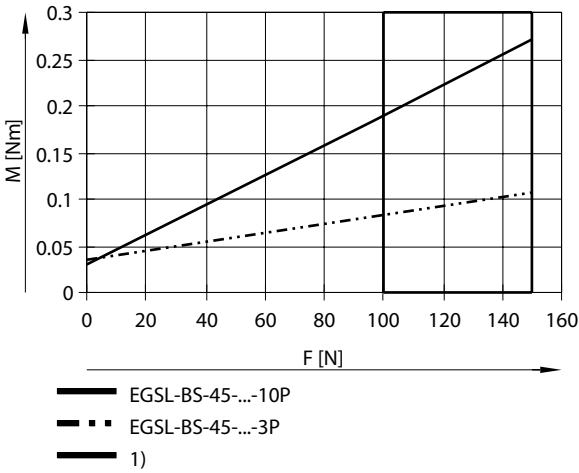
Drive torque M as a function of feed force F for size 35



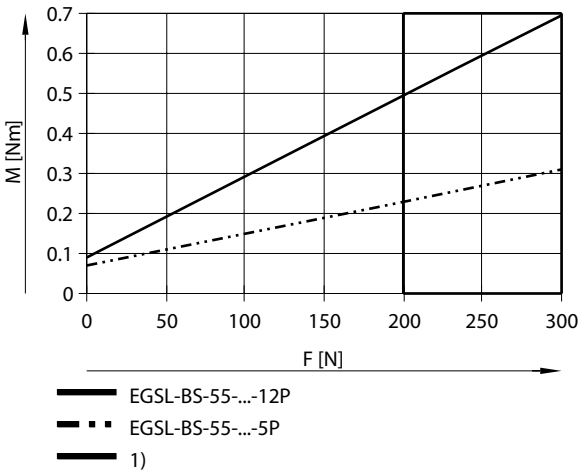
1) This range should be used only briefly.

Datasheet

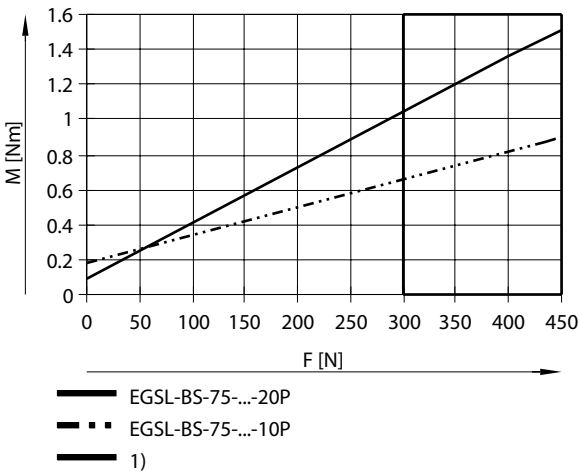
Drive torque M as a function of feed force F for size 45



Drive torque M as a function of feed force F for size 55

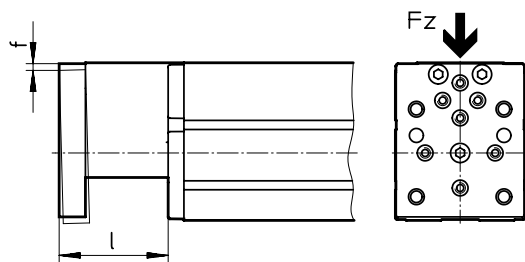


Drive torque M as a function of feed force F for size 75

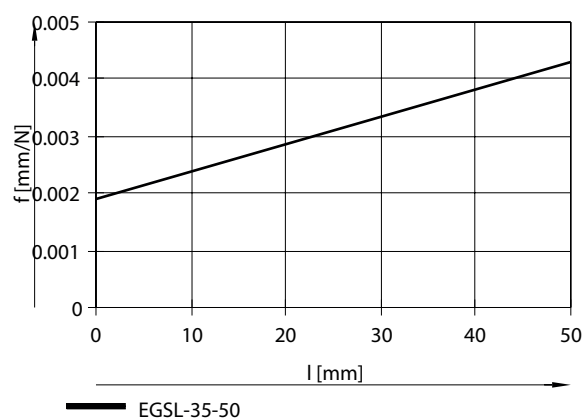


Datasheet

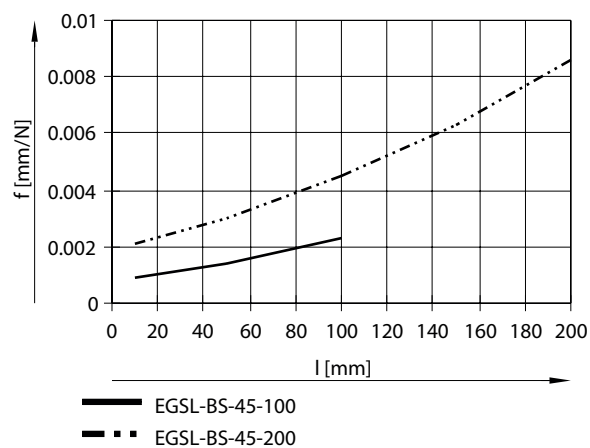
Deflection x as a function of force Fz



Deflection x as a function of force Fz for size 35

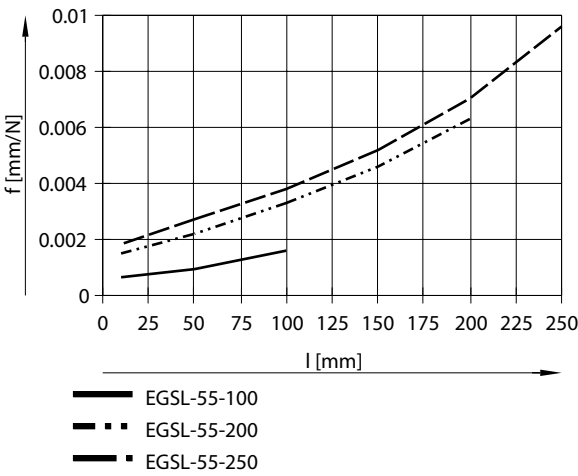


Deflection x as a function of force Fz for size 45

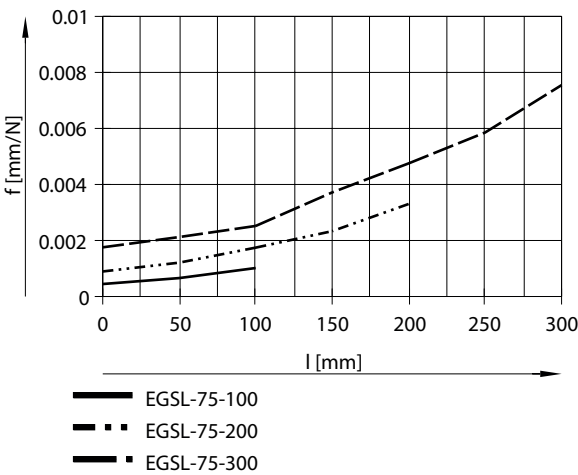


Datasheet

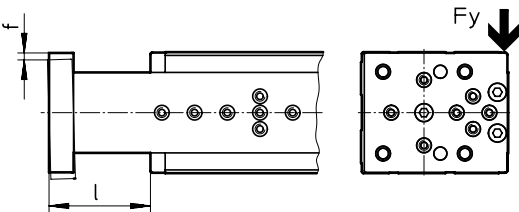
Deflection x as a function of force Fz for size 55



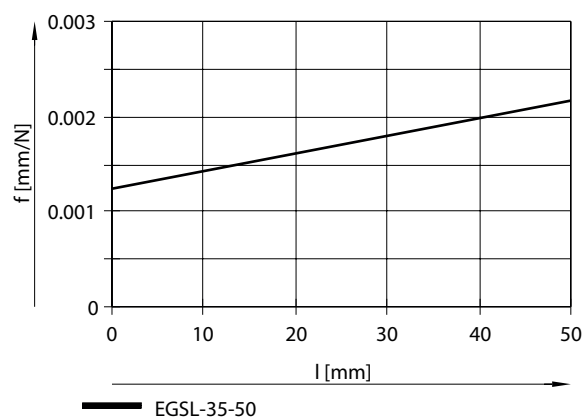
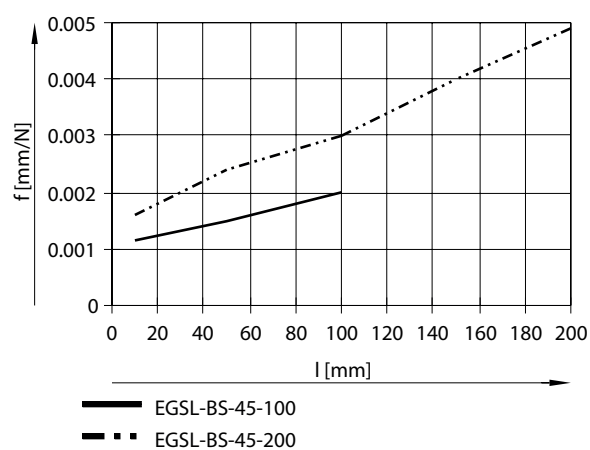
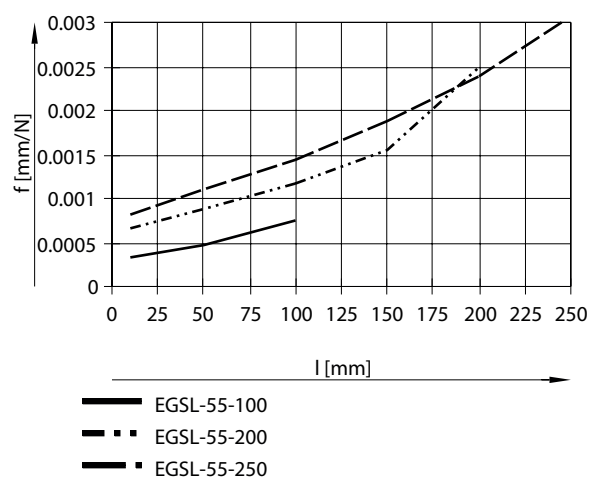
Deflection x as a function of force Fz for size 75



Deflection x as a function of force Fy

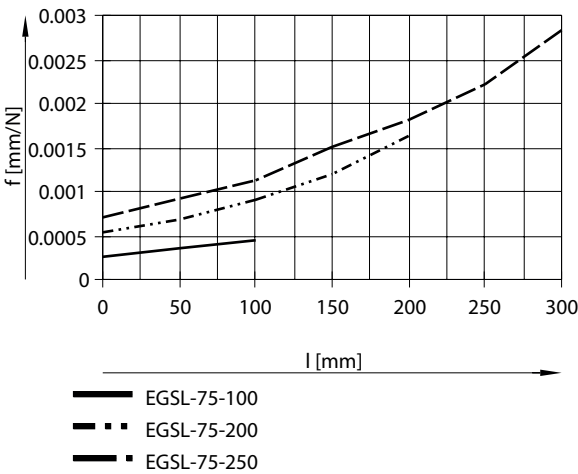


Datasheet

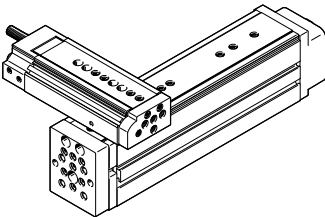
Deflection x as a function of force F_y for size 35Deflection x as a function of force F_y for size 45Deflection x as a function of force F_y for size 55

Datasheet

Deflection x as a function of force Fy for size 75



Possible combinations via guide (direct mounting)

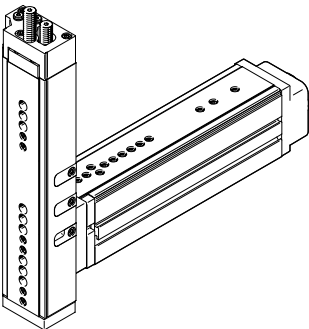


Below: [1]
Top: [2]

Parts required

[1]		EGSL-35	EGSL-45	EGSL-55	EGSL-75
[2]	EGSL-35	1088327 HMSV-73	1088338 HMSV-74	1088338 HMSV-74	—
	EGSL-45	—	1088338 HMSV-74	1088338 HMSV-74	1089092 HMSV-75
	EGSL-55	—	—	1088338 HMSV-74	1089092 HMSV-75
	EGSL-75	—	—	—	1089092 HMSV-75
	DGSL-4	1088327 HMSV-73	—	—	—
	DGSL-6	1088327 HMSV-73	—	—	—
	DGSL-8	1088327 MSV-73	ZBV-M5-7	ZBV-M5-7	—
	DGSL-10	1088327 HMSV-73	ZBV-M5-7	ZBV-M5-7	—
	DGSL-12	—	M5x14 ZBH-7	M5x16 ZBH-7	ZBV-M6-9
	DGSL-16	—	M5x14 ZBH-7	M5x16 ZBH-7	ZBV-M6-9
	DGSL-20	—	—	—	M6x20 ZBH-9

Possible combinations via yoke plate (direct mounting)



Horizontal: [1]
Vertical: [2]

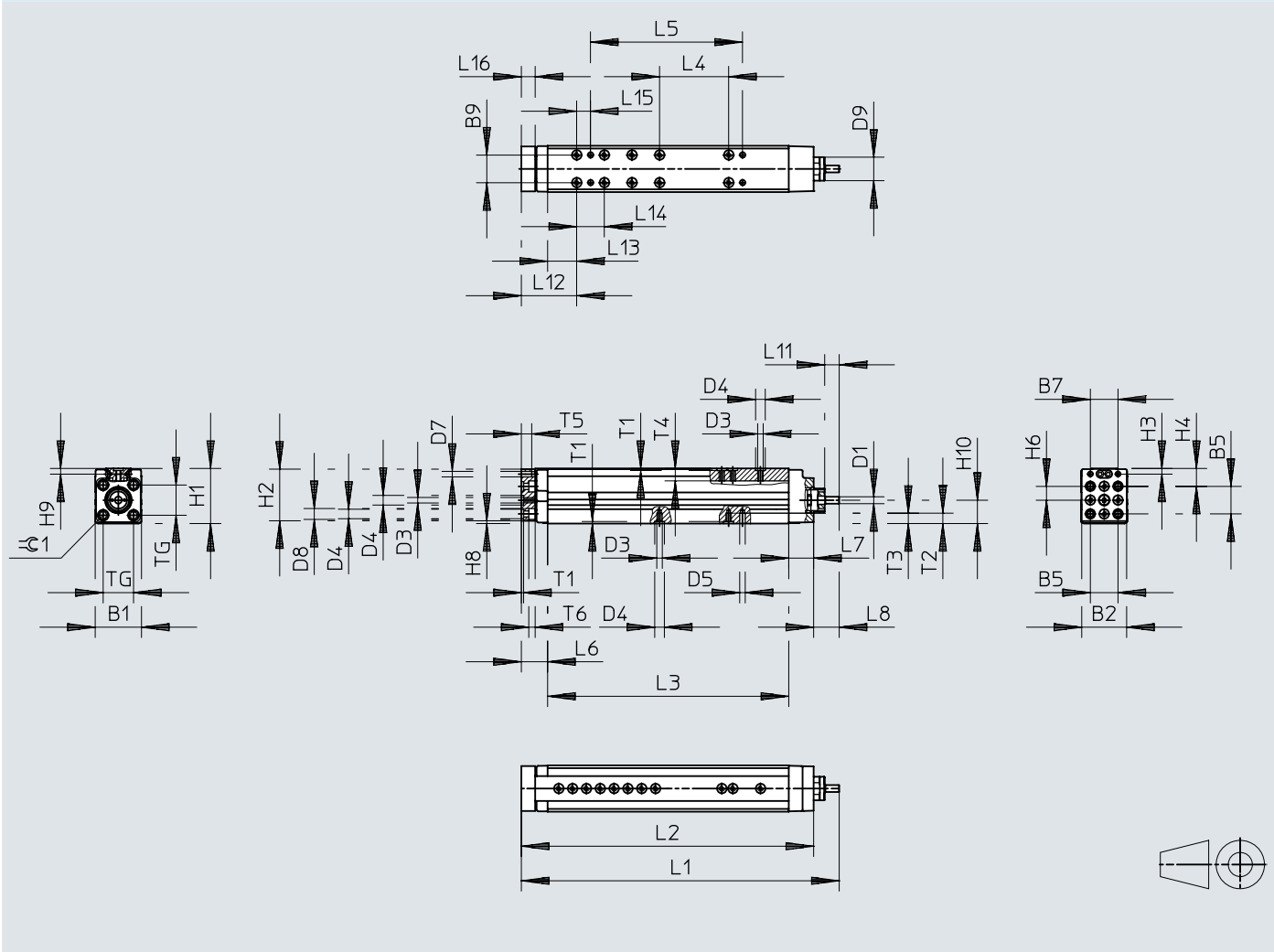
Datasheet

Parts required

	[1]				
		EGSL-35	EGSL-45	EGSL-55	EGSL-75
[2]	EGSL-35	M4x12 ZBH-7	1088295 HMSV-71	1088295 HMSV-71	–
	EGSL-45	–	M5x12 ZBH-7	M5x14 ZBH-7	1088311 HMSV-72
	EGSL-55	–	–	M5x14 ZBH-7	1088311 HMSV-72
	EGSL-75	–	–	–	M6x18 ZBH-9
	DGSL-4	1088262 HMSV-70	–	–	–
	DGSL-6	1088262 HMSV-70	–	–	–
	DGSL-8	1088262 HMSV-70	ZBV-M5-7	ZBV-M5-7	–
	DGSL-10	1088262 HMSV-70	ZBV-M5-7	ZBV-M5-7	–
	DGSL-12	–	M5x14 ZBH-7	M5x12 ZBH-7	ZBV-M6-9
	DGSL-16	–	M5x14 ZBH-7	M5x12 ZBH-7	ZBV-M6-9
	DGSL-20	–	–	–	M6x20 ZBH-9

Dimensions

Dimensions – Mini slide EGSL, size 35 Download CAD data www.festo.com



Dimensions

	B1	B2	B5	B7	B9	D1 ∅	D3	D4 ∅ H7	D5 ∅ H7	D7 ∅
EGSL-35	33,5	33	20	20	20 ±0,5	5	M4	7	4	4
	D8 ∅	D9 ∅ g7	H1	H2	H3	H4	H6	H8	H9	H10
EGSL-35	8	19	40	37,5	4,2	13	10	2	4,2	17+0,09/−0,07
	L6		L7	L8	L11	L12		L13 ⁴⁾	L14 ⁴⁾	L15
	2) ±1	3) ±1		±1	±0,2	2)	3)			±0,1
EGSL-35	21	19	18	18,5	10,5	42	40	21	20	10
	L16	T1	T2	T3	T4	T5	T6	TG	≈ 1	
		±0,1								
EGSL-35	10	1,6	7,6	7,5	9	7,5	4,6	22	5	
	L ¹⁾	L1			L2			L3	L5 ⁴⁾	
		2) ±1,5	3) ±1,5	2) ±1	3) ±1	−0,2			±0,05	
EGSL-35	50	182	180	163,5	161,5	124,5			60	

1) L= stroke

2) With rubber buffer

3) Without rubber buffer: when homing to fixed stop

4) Tolerance for centring hole ±0.02 mm Tolerance for thread ±0.1 mm

Download CAD data www.festo.com

Dimensions

	B1	B2	B3	B4	B5	B6	B7	B8	B9 ±0,5	D1 ∅
EGSL-45	44,5	43,5	32	19	25	34	20	–	25	6
EGSL-55	53	52	42	20	25	40	20	–	25	8
EGSL-75	74	73	62	31	50	–	20	40	50	12

	D2	D3	D4 ∅ H7	D5 ∅ H7	D6	D7 ∅	D8 ∅	D9 ∅ g7	H1	H2
EGSL-45	M3	M5	7	6	M3	6	10	32	56	53,5
EGSL-55	M3	M5	7	6	M4	6	10	40	66	63,5
EGSL-75	M4	M6	9	6	M5	8	11	60	90	87,5

	H3	H4	H5	H6	H7	H8	H9	H10	L6	
									2) ±1	3) ±1
EGSL-45	29	20,5	13	10	–	2	6,4	23±0,08	22	20
EGSL-55	33,3	24,8	17,3	10	–	2	6,4	28,7±0,08	27	25
EGSL-75	41,5	26,5	11,5	10	20	2	7,6	38,5±0,08	27	25

	L7	L8 ±1	L9	L10	L11 ±0,2	L12		L13 ⁴⁾	L14 ⁴⁾	L15 ±0,1
						2)	3)			
EGSL-45	26	16	16,9	3,5	8	43	41	21	25	12,5
EGSL-55	30	18,5	14,9	3,5	14	48	46	21	25	12,5
EGSL-75	36	23,6	21,5	4,5	17	48	46	21	50	12,5

	L16	T1 ±0,1	T2	T3	T4	T5	T6	TG	VD	≈ 1
EGSL-45	10	1,6	8,1	7,5	12,4	7,5	5,7	32,5	7	6
EGSL-55	15	1,6	8,6	8,5	12,4	10	8,7	38	7	6
EGSL-75	15	2,1	12,6	12	14,5	10	6,8	56,5	9	8

	L ¹⁾	L1		L2		L3	L4 ⁴⁾	L5 ⁴⁾
		2) ±1,5	3) ±1,5	2) ±1	3) ±1	–0,2		±0,05
EGSL-45	100	248	246	232	230	184	75	125
	200	348	346	332	330	284	100	175
EGSL-55	100	284,5	282,5	266	264	209	100	150
	200	384,5	382,5	366	364	309	100	175
	250	463,5	461,5	445	443	388	100	175
EGSL-75	100	309,6	307,6	286	284	223	–	150
	200	409,6	407,6	386	384	323	100	250
	300	514,6	512,6	491	489	428	150	350

1) L= stroke

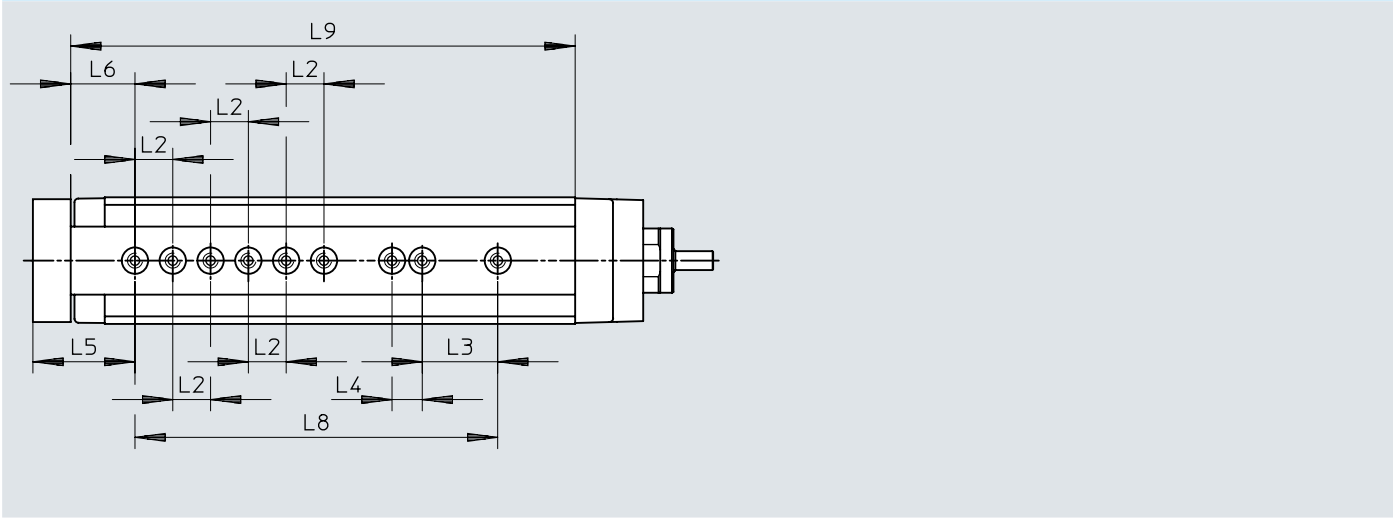
2) With rubber buffer

3) Without rubber buffer: when homing to fixed stop

4) Tolerance for centring hole ±0.02 mm Tolerance for thread ±0.1 mm

Dimensions

Dimensions – EGSL-35-50 Download CAD data www.festo.com



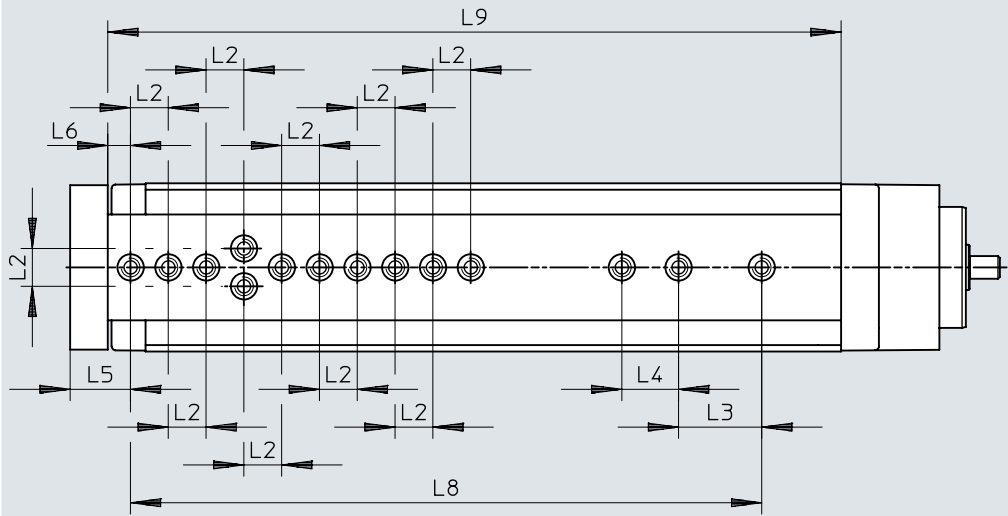
	L ¹⁾	L ²⁾	L ³⁾	L ⁴⁾	L5	L6	L ⁸⁾	L9
EGSL-35	50	10	20	8	27	17	96	133,5

1) L= stroke
2) Tolerance for centring hole ±0.02 mm Tolerance for thread ±0.1 mm

Dimensions

Dimensions – EGSL-45-100

Download CAD data www.festo.com

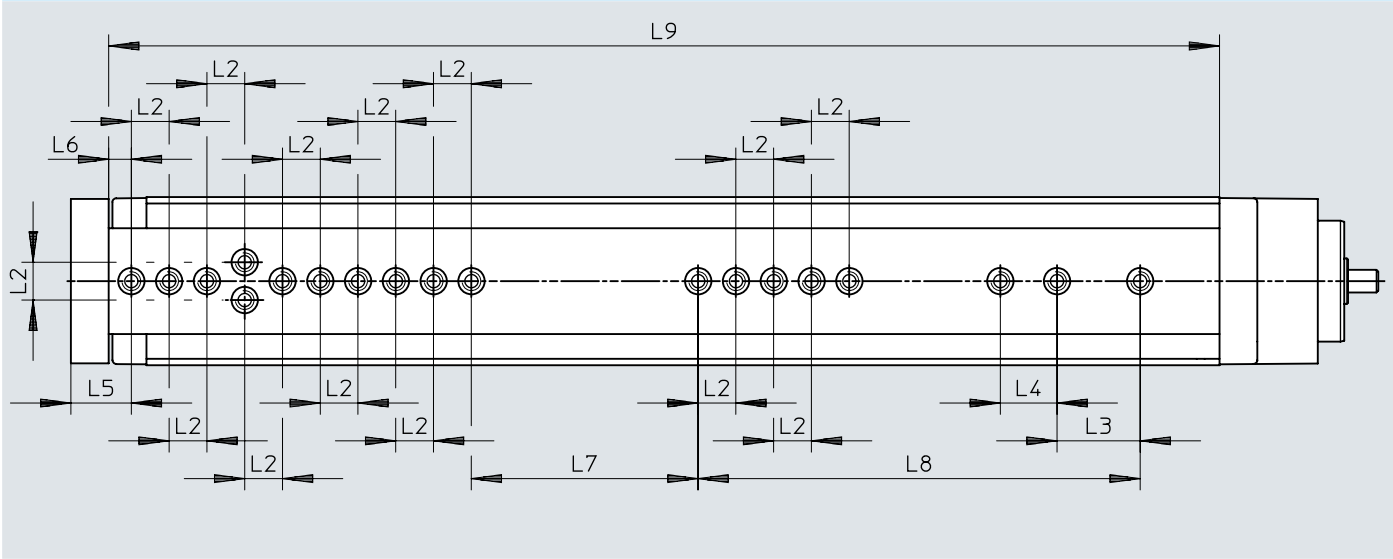


	L ¹⁾	L ²⁾	L ³⁾	L ⁴⁾	L5	L6	L ⁸⁾	L9
EGSL-45	100	10	22	15	16	6	167	194

1) L= stroke
2) Tolerance for centring hole ± 0.02 mm Tolerance for thread ± 0.1 mm

Dimensions

Dimensions – EGSL-45-200 Download CAD data www.festo.com



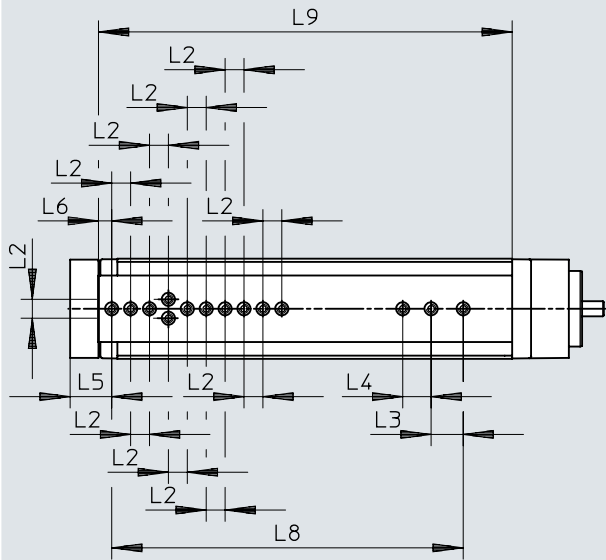
	L ¹⁾	L2 ²⁾	L3 ²⁾	L4 ²⁾	L5	L6	L7 ²⁾	L8 ²⁾	L9
EGSL-45	200	10	22	15	16	6	60	117	294

1) L= stroke
2) Tolerance for centring hole ±0.02 mm Tolerance for thread ±0.1 mm

Dimensions

Dimensions – EGSL-55-100

Download CAD data www.festo.com

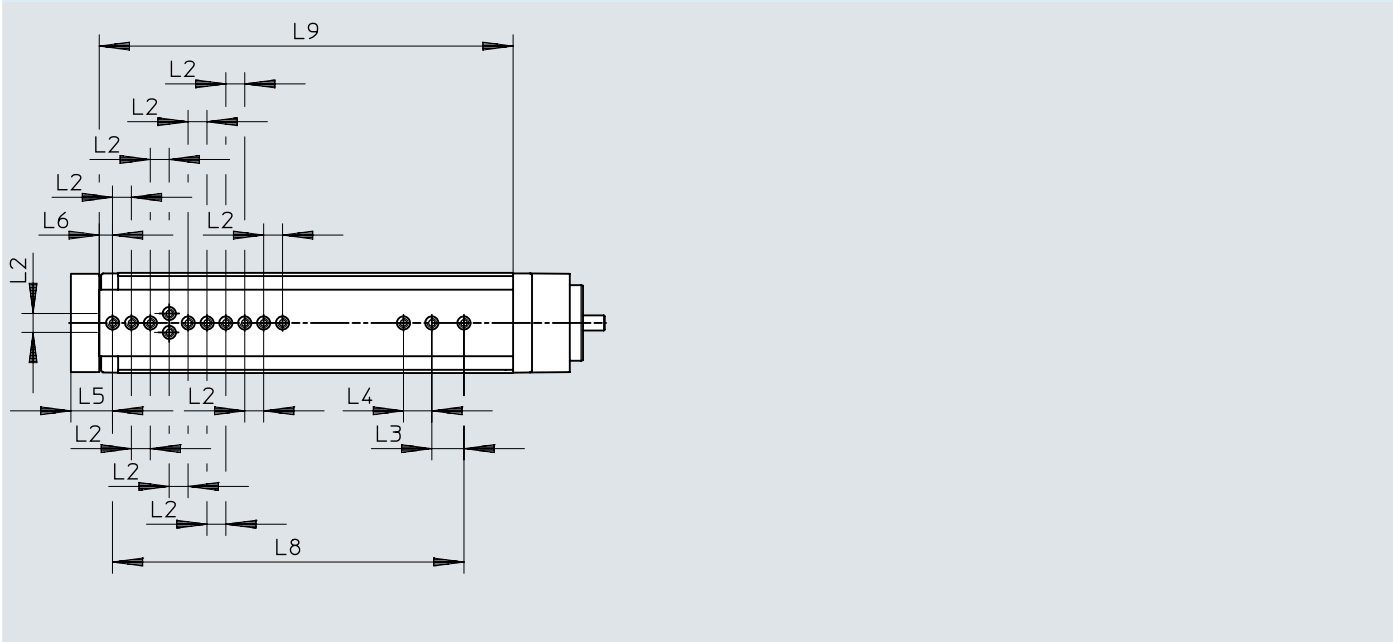


	L ¹⁾	L ²⁾	L ³⁾	L ⁴⁾	L ⁵	L ⁶	L ⁸⁾	L ⁹
EGSL-55	100	10	17	15	22	7	186	219

1) L= stroke
2) Tolerance for centring hole ± 0.02 mm Tolerance for thread ± 0.1 mm

Dimensions

Dimensions – EGSL-55-200 Download CAD data www.festo.com



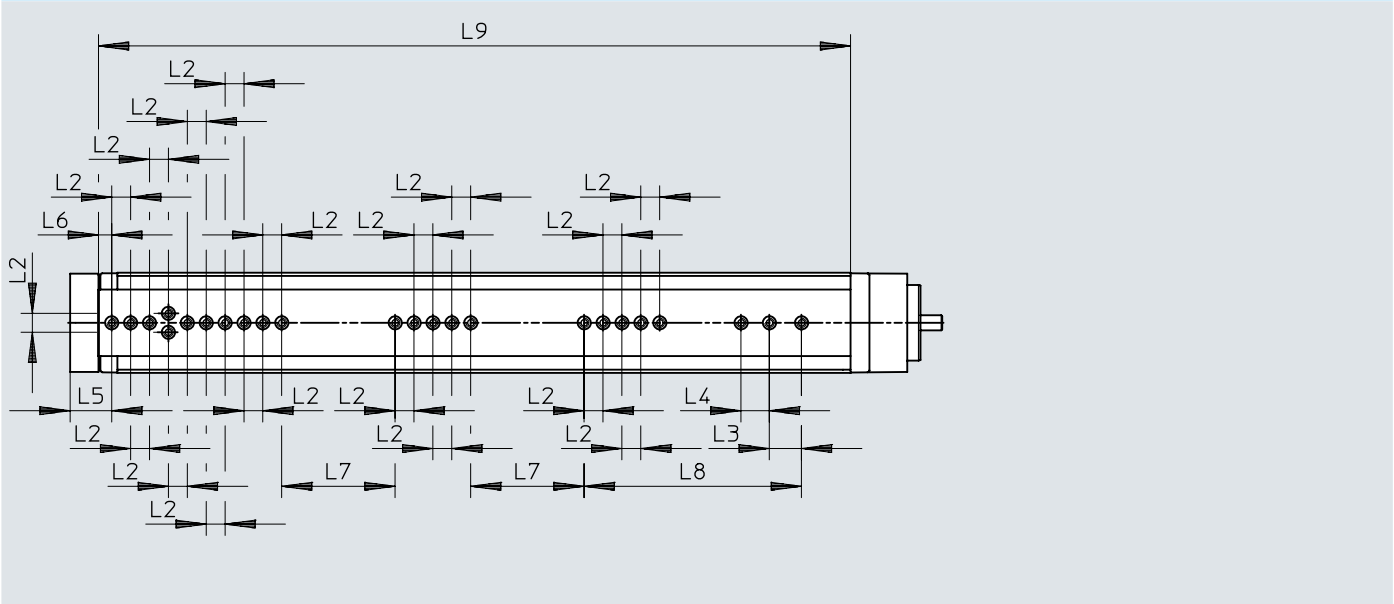
	L ¹⁾	L2 ²⁾	L3 ²⁾	L4 ²⁾	L5	L6	L7 ²⁾	L8 ²⁾	L9
EGSL-55	200	10	17	15	22	7	60	136	319

1) L= stroke
2) Tolerance for centring hole ±0.02 mm Tolerance for thread ±0.1 mm

Dimensions

Dimensions – EGSL-55-250

Download CAD data www.festo.com



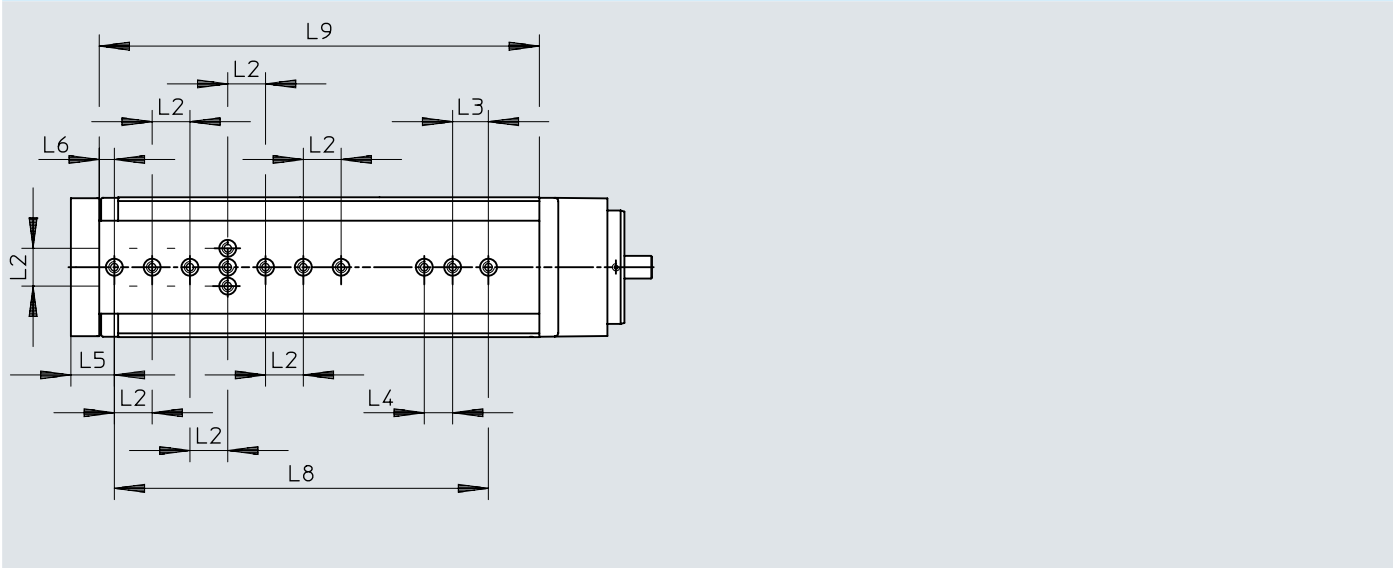
	L ¹⁾	L2 ²⁾	L3 ²⁾	L4 ²⁾	L5	L6	L7 ²⁾	L8 ²⁾	L9
EGSL-55	250	10	17	15	22	7	60	115	398

1) L= stroke
2) Tolerance for centring hole ±0.02 mm Tolerance for thread ±0.1 mm

Dimensions

Dimensions – EGSL-75-100

Download CAD data www.festo.com



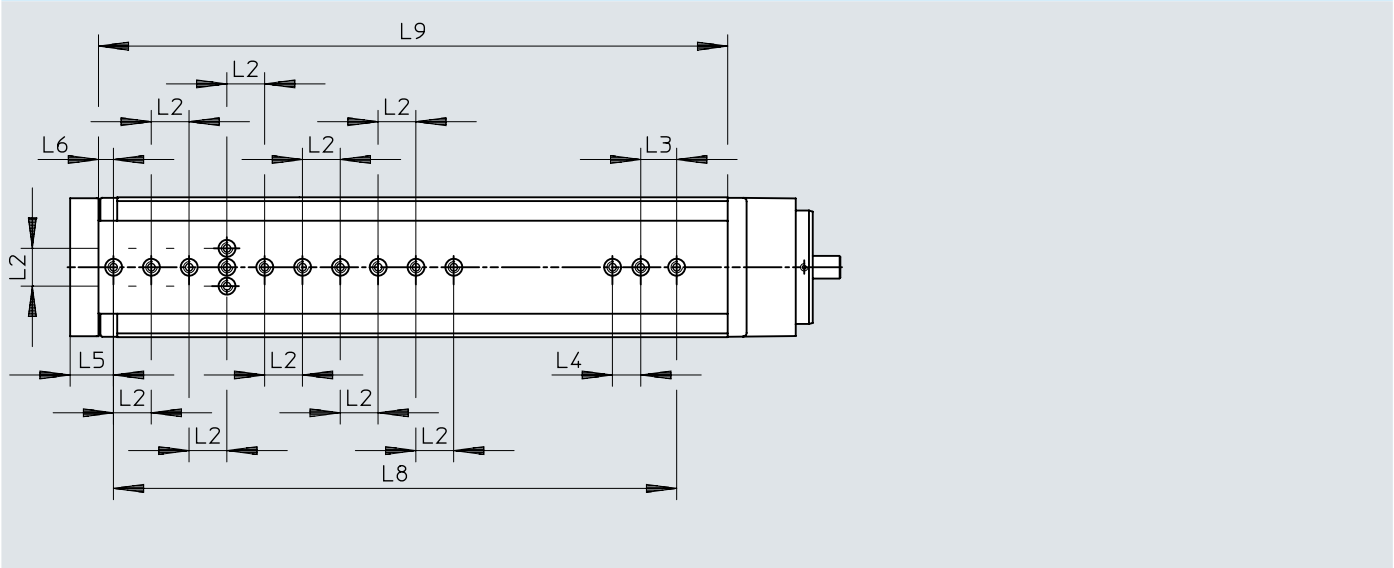
	L ¹⁾	L2 ²⁾	L3 ²⁾	L4 ²⁾	L5	L6	L8 ²⁾	L9
EGSL-75	100	20	19	15	23	8	198	233

1) L= stroke
2) Tolerance for centring hole ±0.02 mm Tolerance for thread ±0.1 mm

Dimensions

Dimensions – EGSL-75-200

Download CAD data www.festo.com

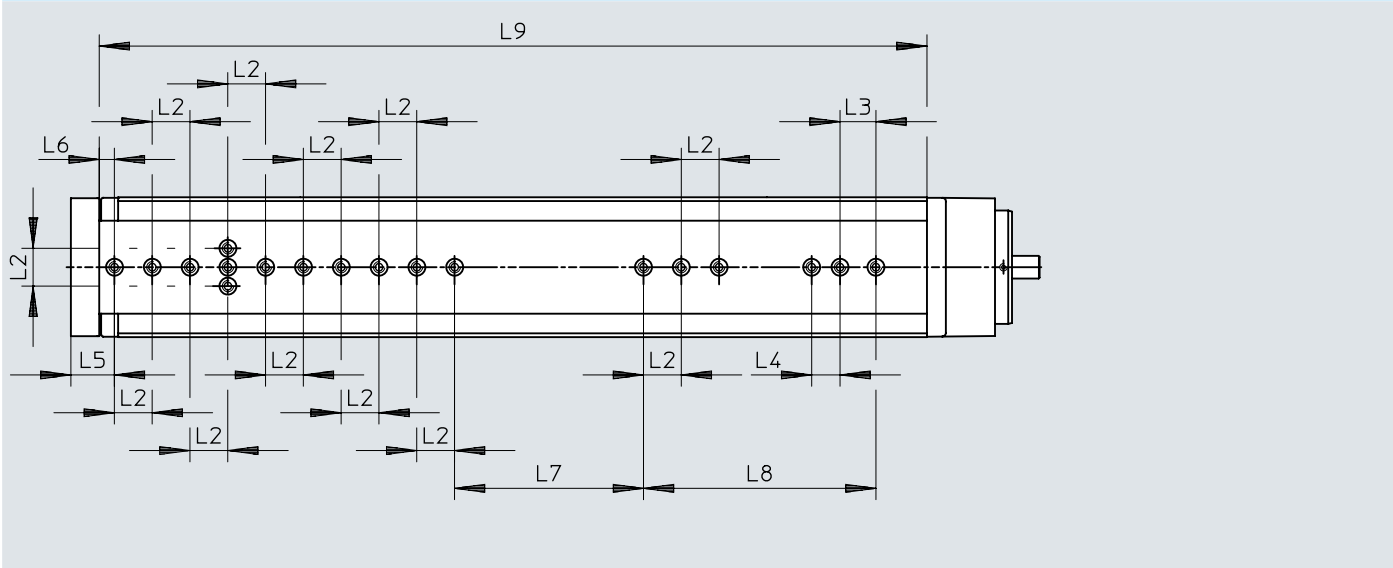


	L ¹⁾	L2 ²⁾	L3 ²⁾	L4 ²⁾	L5	L6	L8 ²⁾	L9
EGSL-75	200	20	19	15	23	8	298	333

1) L= stroke
2) Tolerance for centring hole ±0.02 mm Tolerance for thread ±0.1 mm

Dimensions

Dimensions – EGSL-75-300 Download CAD data www.festo.com

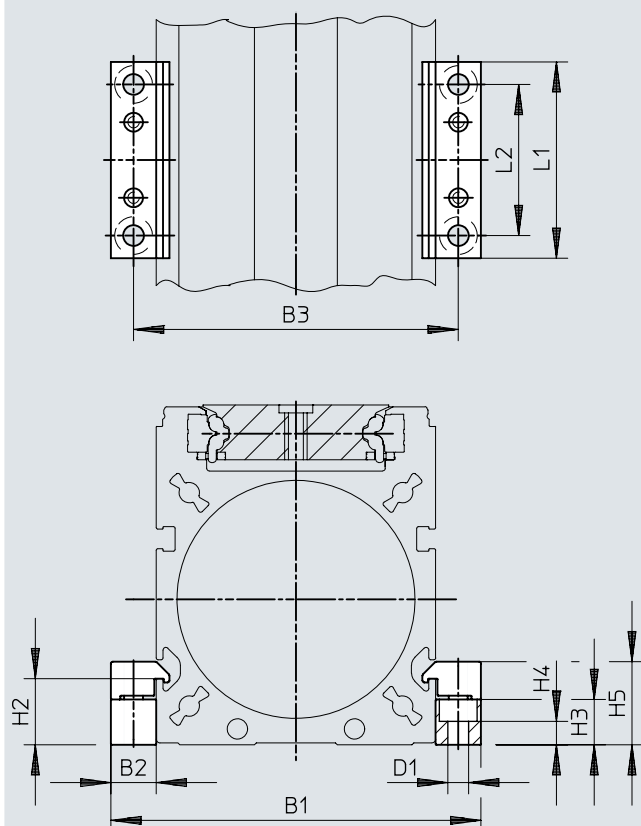


	L ¹⁾	L2 ²⁾	L3 ²⁾	L4 ²⁾	L5	L6	L7 ²⁾	L8 ²⁾	L9
EGSL-75	300	20	19	15	23	8	100	123	438

1) L= stroke
2) Tolerance for centring hole ±0.02 mm Tolerance for thread ±0.1 mm

Dimensions

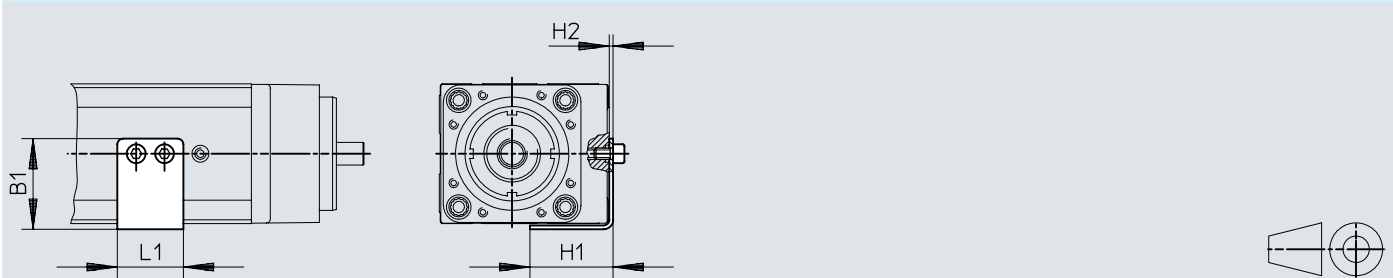
Dimensions – Profile mounting EAHF/MUE

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


		B1	B2	B3	D1	H2	H3	H4	H5	L1	L2
EAHF-G1-35-P	EGSL-35	49,5	8	41,5	3,4	10,5	10	6,8	15,5	40	20
EAHF-G1-45-P	EGSL-45	68,5	12	56,5	5,5	12,5	8,3	2,5	17	52	40
MUE-70/80	EGSL-55	77	12	65	5,5	17,5	12	6,2	22	52	40
MUE-70/80	EGSL-75	98	12	86	5,5	17,5	12	6,2	22	52	40

Dimensions

Dimensions – Switch lug EAPM Download CAD data www.festo.com

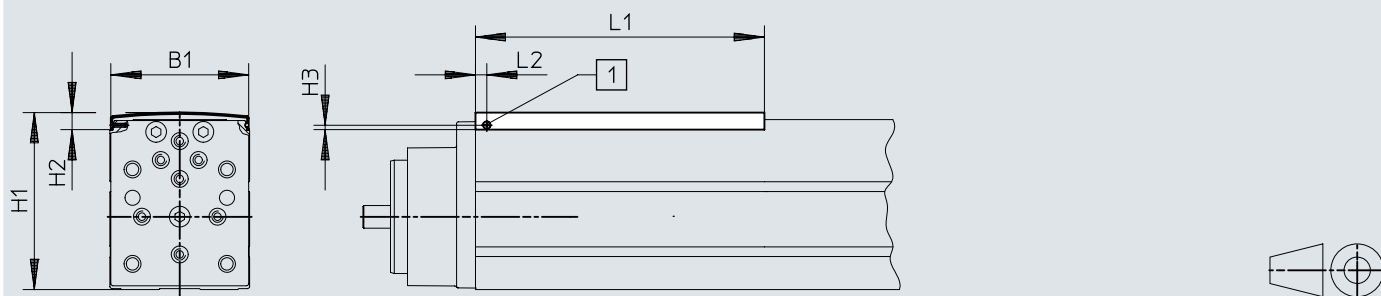


[1] The switch lug may only be fitted on the threads provided for this purpose (rear guide rail).

	B1	H1	H2	L1
EAPM-G1-35-SLS	25,5	25	1,5	17
EAPM-G1-45-SLS	32	32,5	2	30
EAPM-G1-55-SLS	36	35	2	30
EAPM-G1-75-SLS	48	44	2	35

Dimensions

Dimensions – Cover EASC

[Download CAD data](#) www.festo.com


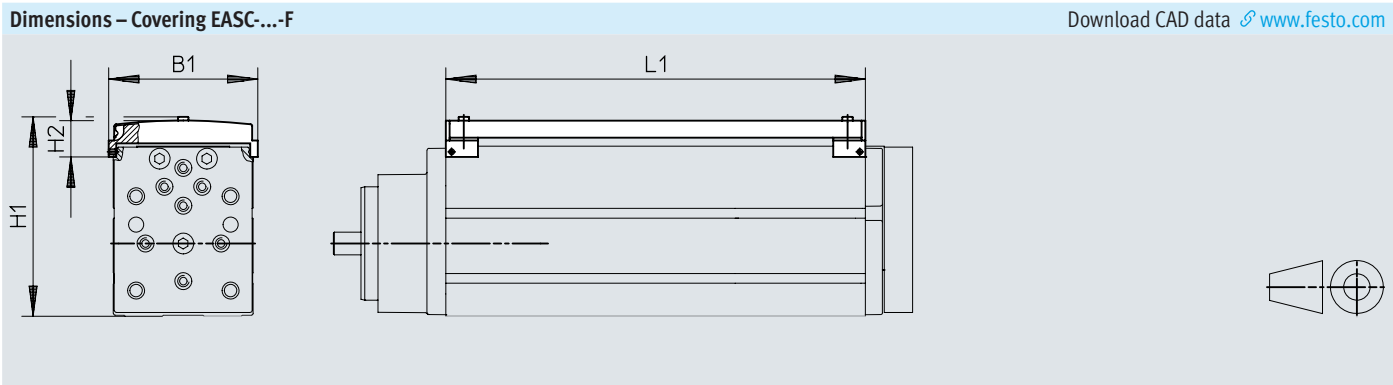
[1] M2 countersunk screw

	1)	B1	H1	H2	H3	L1 -0,5	L2 -0,3
EASC-G1-35-50	50	32,5	43,2	8,5	2,3	58	6
EASC-G1-35-500	500 ²⁾					500	
EASC-G1-45-100	100	43,5	59,7	9	2,3	108	6
EASC-G1-45-200	200					208	
EASC-G1-45-500	500 ²⁾					500	
EASC-G1-55-100	100	52	69,7	9	2,3	108	6
EASC-G1-55-200	200					208	
EASC-G1-55-250	250					258	
EASC-G1-55-500	500 ²⁾					500	
EASC-G1-75-100	100	73	93,7	9	2,3	108	6
EASC-G1-75-200	200					208	
EASC-G1-75-300	300					308	
EASC-G1-75-500	500 ¹⁾					500	

1) Length

2) The covering can be shortened as required by the customer. This means that the mounting holes must be drilled by the customer.

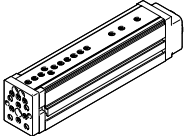
Dimensions



	1)	B1	H1	H2	L1 -0,5
EASC-G1-35-50-F	50	38,3	55	19,1	119,5
EASC-G1-45-100-F	100	49,7	71,5	19,6	179
EASC-G1-45-200-F	200				279
EASC-G1-55-100-F	100	58,2	81,5	19,6	204
EASC-G1-55-200-F	200				304
EASC-G1-55-250-F	250				383
EASC-G1-75-100-F	100	78,9	105,5	19,4	218
EASC-G1-75-200-F	200				318
EASC-G1-75-300-F	300				423

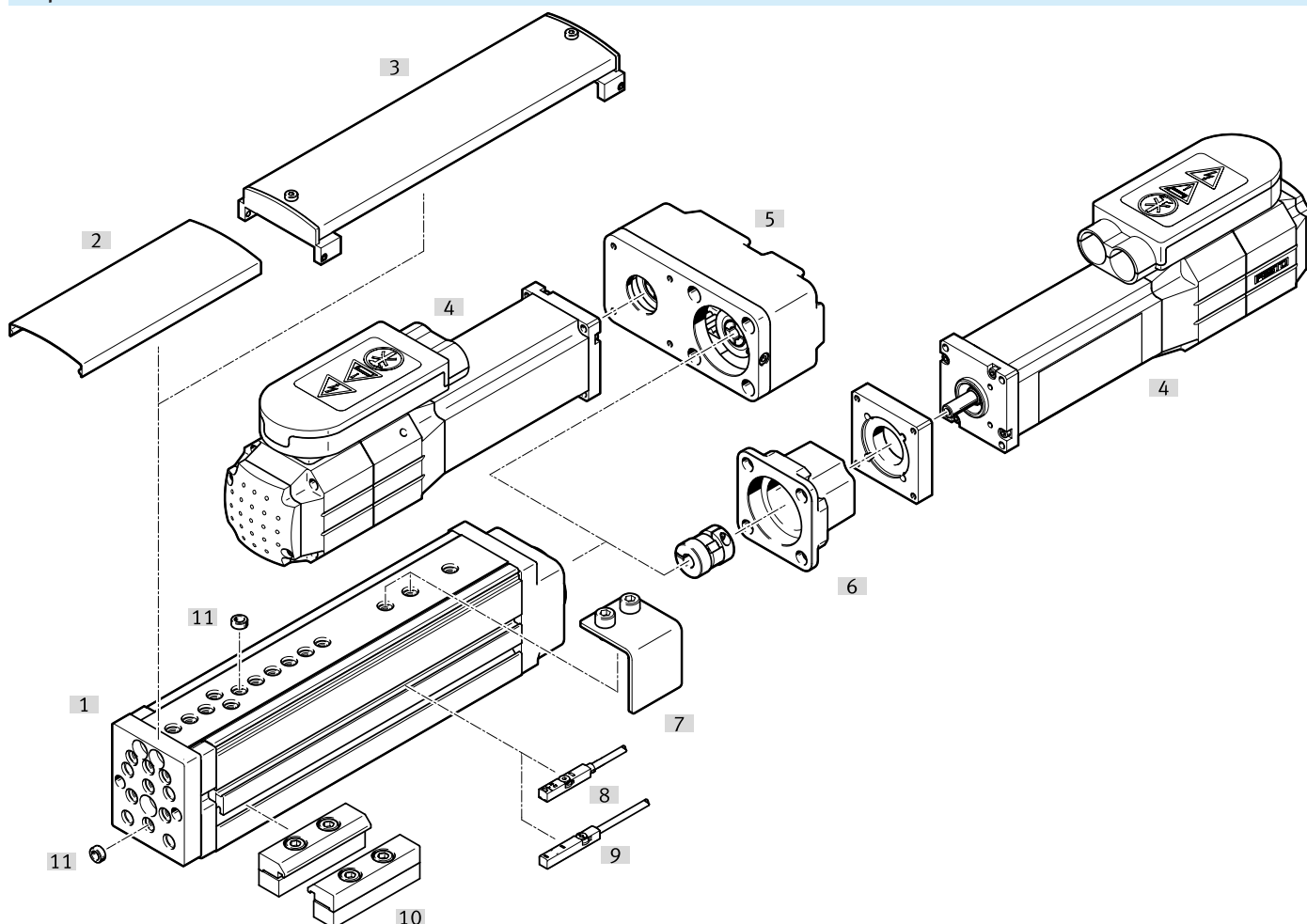
1) Length

Ordering data

Ordering data					
	Size	Spindle pitch	Stroke [mm]	Part no.	Type
	35	8 mm/U	50 mm	562160	EGSL-BS-35-50-8P
	45	3 mm/U	100 mm	562225	EGSL-BS-45-100-3P
			200 mm	562226	EGSL-BS-45-200-3P
		10 mm/U	100 mm	559335	EGSL-BS-45-100-10P
			200 mm	559336	EGSL-BS-45-200-10P
	55	5 mm/U	100 mm	562227	EGSL-BS-55-100-5P
			200 mm	562228	EGSL-BS-55-200-5P
			250 mm	562229	EGSL-BS-55-250-5P
		12.7 mm/U	100 mm	559337	EGSL-BS-55-100-12.7P
			200 mm	559338	EGSL-BS-55-200-12.7P
			250 mm	559339	EGSL-BS-55-250-12.7P
	75	10 mm/U	100 mm	562230	EGSL-BS-75-100-10P
			200 mm	562231	EGSL-BS-75-200-10P
			300 mm	562232	EGSL-BS-75-300-10P
		20 mm/U	100 mm	559340	EGSL-BS-75-100-20P
			200 mm	559341	EGSL-BS-75-200-20P
			300 mm	559342	EGSL-BS-75-300-20P

Peripherals

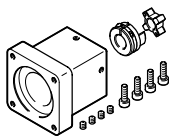
Peripherals overview



Accessories			→ Link
Type/order code	Description		
[1] Mini slide EGSL	Electric drive		egsl
[2] Covering EASC...	- For protection, to stop foreign parts or dirt getting into the guide - The cover can be shortened as required by the customer		35
[3] Covering EASC...-F	- This covering must be used in combination with the switch lug EAPM - For protection, to stop foreign parts or dirt getting into the guide		35
[4] Motor EMMT	Motors and kits specially matched with the axis Detailed information: www.festo.com/catalogue/eamm Engineering tool: www.festo.com/x/electric-motion-sizing		emmt
[5] Parallel kit EAMM-U	- For parallel motor mounting - The motor can only be mounted at the side and underneath (Comprising: housing, clamping sleeve, toothed belt pulley, toothed belt)		eammm-u
[6]			eammm-a
[7] Switch lug EAPM	For sensing the slide position via proximity switch SIES		35
[8] Proximity switch SIES-8M	Inductive proximity sensor, for T-slot		36
[9] Proximity switches SMT-8	Magnetic proximity switches, for T-slot		36
[10] Profile mounting EAHF-G1, MUE	For mounting the axis		35
[11] Centring sleeve ZBH	- For centring loads and attachments - On the slide, transverse assembly is significantly simplified		36

Accessories

Permitted axis/motor combinations for axial and parallel kits



You can find all the information in the following links:

- Axis/motor combinations
- Permitted third-party motors
- Technical data
- Dimensions

For axial kits → Internet: www.festo.com/catalogue/eamm-a

For parallel kits → Internet: www.festo.com/catalogue/eamm-u

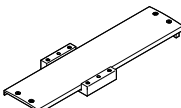
Profile mounting EAHF/MUE

	Description	Product weight	Note on materials	Part no.	Type
	For size 35	20 g	RoHS-compliant	1170211	EAHF-G1-35-P
	For size 45	23 g		1168859	EAHF-G1-45-P
	For sizes 55, 75	80 g		★ 558043	MUE-70/80

Switch lug EAPM

	Description	Product weight	Note on materials	Part no.	Type
	For size 35	15 g	RoHS-compliant	1235029	EAPM-G1-35-SLS
	For size 45	30 g		1235033	EAPM-G1-45-SLS
	For size 55	35 g		1235035	EAPM-G1-55-SLS
	For size 75	50 g		1235036	EAPM-G1-75-SLS

Cover kit EASC for use without switch lug

	Size	Material adapter plate	Material cover profile	Part no.	Type
	35	Wrought aluminium alloy, Anodised	Wrought aluminium alloy, Anodised	570819	EASC-G1-35-50
	45			570874	EASC-G1-35-500
				570823	EASC-G1-45-200
				570875	EASC-G1-45-500
				570822	EASC-G1-45-100
				55	570824
	570876				EASC-G1-55-500
	570826				EASC-G1-55-250
	570825				EASC-G1-55-200
	75				570829
				570827	EASC-G1-75-100
				570828	EASC-G1-75-200
				570877	EASC-G1-75-500

Cover kit EASC for use with switch lug

	Size	Material adapter plate	Material cover profile	Part no.	Type
	35	Wrought aluminium alloy, Anodised	Wrought aluminium alloy, Anodised	570830	EASC-G1-35-50-F
	45			570834	EASC-G1-45-200-F
	55			570833	EASC-G1-45-100-F
				570837	EASC-G1-55-250-F
				570835	EASC-G1-55-100-F
				570836	EASC-G1-55-200-F
	75			570839	EASC-G1-75-200-F
				570838	EASC-G1-75-100-F
				570840	EASC-G1-75-300-F

Accessories

Centring sleeve ZBH-7

	Description	Material sleeve	Size of pack	Product weight	Part no.	Type
	For sizes 35, 45, 55	Steel	10	1 g	8146544	ZBH-7-B

Centring sleeve ZBH-9

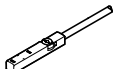
	Description	Material sleeve	Size of pack	Product weight	Part no.	Type
	For size 75	Steel	10	2 g	8137184	ZBH-9-B

Connector sleeve ZBV

	Description	Description	Note on materials	Part no.	Type
	For sizes 45, 55	For connecting mini slides EGSL with mini slides DGSL	RoHS-compliant	548803	ZBV-M5-7
	For size 75			548804	ZBV-M6-9

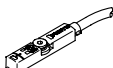
Proximity switch SIES for T-slot, inductive

Link [sies-8m](#)

	Switching output	Electrical connection 1, connector system	Switching element function	Cable length	Part no.	Type
	NPN	M8x1, A-coded, to EN 61076-2-104	N/C contact	0.3 m	★ 551402	SIES-8M-NO-24V-K-0,3-M8D
			N/O contact		551397	SIES-8M-NS-24V-K-0,3-M8D
		Open end	N/C contact	7.5 m	★ 551401	SIES-8M-NO-24V-K-7,5-OE
			N/O contact		551396	SIES-8M-NS-24V-K-7,5-OE
	PNP	M8x1, A-coded, to EN 61076-2-104	N/C contact	0.3 m	★ 551392	SIES-8M-PO-24V-K-0,3-M8D
			N/O contact		551387	SIES-8M-PS-24V-K-0,3-M8D
		Open end	N/C contact	7.5 m	★ 551391	SIES-8M-PO-24V-K-7,5-OE
			N/O contact		551386	SIES-8M-PS-24V-K-7,5-OE

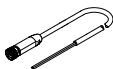
Proximity switch SMT for T-slot, magneto-resistive

Link [smt-8m](#)

	Type of mounting	Switching output	Electrical connection 1, connection type	Cable length	Part no.	Type
	Screw-clamped, Insertable in the slot from above	PNP	Cable	2.5 m	★ 574335	SMT-8M-A-PS-24V-E-2,5-OE
			Cable with plug	0.3 m	★ 574334	SMT-8M-A-PS-24V-E-0,3-M8D

Connecting cable NEBA, straight

Link [neba](#)

	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	★ 8078223	NEBA-M8G3-U-2.5-N-LE3
				5 m	★ 8078224	NEBA-M8G3-U-5-N-LE3

Accessories

Connecting cable NEBA, angled					Link 	
	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	★ 8078230	NEBA-M8W3-U-2.5-N-LE3
				5 m	★ 8078231	NEBA-M8W3-U-5-N-LE3