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 Fx	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/s²						
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 JO	0.0426 kgcm²	0.0459 kgcm²	0.0514 kgcm²	0.0614 kgcm²	0.0731 kgcm²
Mass moment of inertia JL per kg of working load	0.0162 kgcm²	0.0023 kgcm²		0.0253 kgcm²	

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 JO	0.1352 kgcm²	0.1477 kgcm²	0.1574 kgcm²	0.1827 kgcm²	0.2113 kgcm²	0.2327 kgcm²
Mass moment of inertia JL per kg of working load	0.0063 kgcm²		0.006 kgcm²	0.0409 kgcm²		0.041 kgcm²

Mass moment of inertia for size 75

$J_A = J_O + J_L \cdot m$

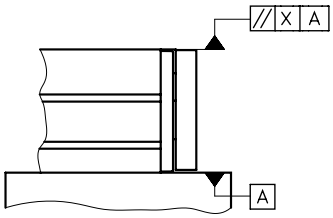
The mass moment of inertia J of the mini slide is calculated as follows.
m = moving payload

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 JO	0.8695 kgcm²	0.9649 kgcm²	1.0667 kgcm²	1.0512 kgcm²	1.1945 kgcm²	1.3459 kgcm²
Mass moment of inertia JL per kg of working load	0.0253 kgcm²	0.00253 kgcm²	0.0253 kgcm²	0.1013 kgcm²		

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

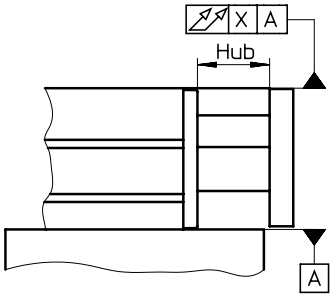


The term parallelism refers to the alignment accuracy between the mounting surface and the slide surface. Specifications apply in a retracted state.

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

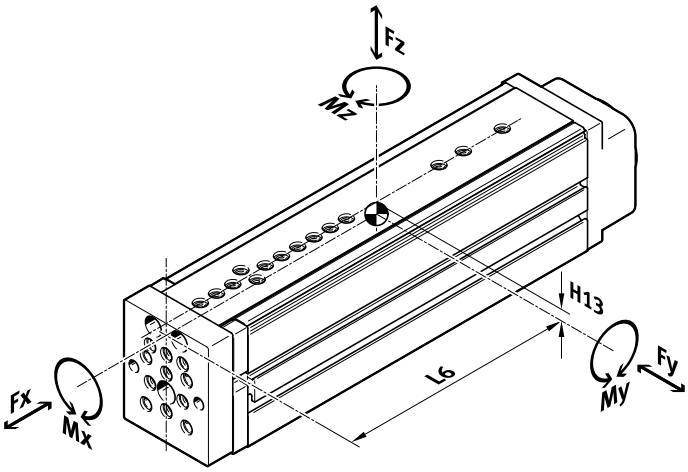
Linearity



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 x 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

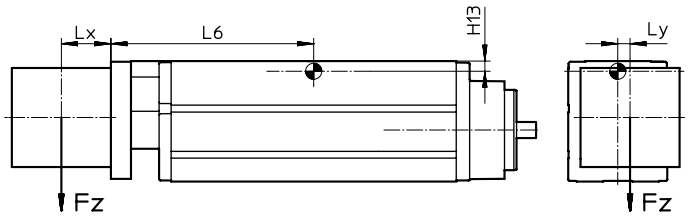
$$f_v = \frac{|F_{y1}|}{F_{y2}} + \frac{|F_{z1}|}{F_{z2}} + \frac{|M_{x1}|}{M_{x2}} + \frac{|M_{y1}|}{M_{y2}} + \frac{|M_{z1}|}{M_{z2}} \leq 1$$

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 Lx = 30 mm
Lever arm Ly = 10 mm
Mass Fz = 5 kg
Acceleration a = 0 m/s²
Mounting position: horizontal

To be determined:
Permissible forces and torques
Service life estimate

Solution:
L6 = 0.162 m (from table)
Fy = 0 N
Fz = m x g = 5 kg x 9.81 m/s² = 49.05 N
Mx = Fz x Ly = 49.05 N x 0.01 m = 0.4905 Nm
My = Fz x (L6+Lx) = 49.05 N x (0.162 m + 0.03m) = 9.42 Nm
Mz = 0 Nm

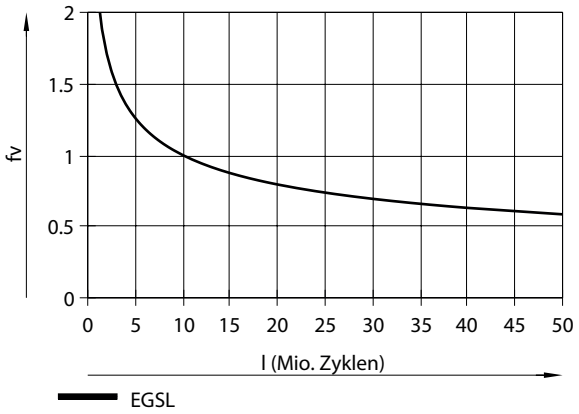
Using the formula 'load comparison factor' gives a value of fv = 0.68.
Using the graph (below), this results in a service life of 30 million cycles.

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

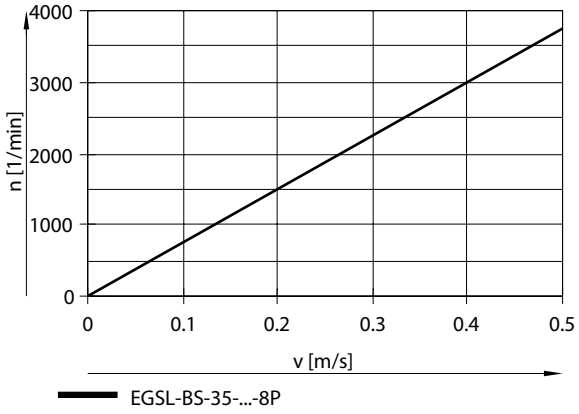
Datasheet

Service life of the guide

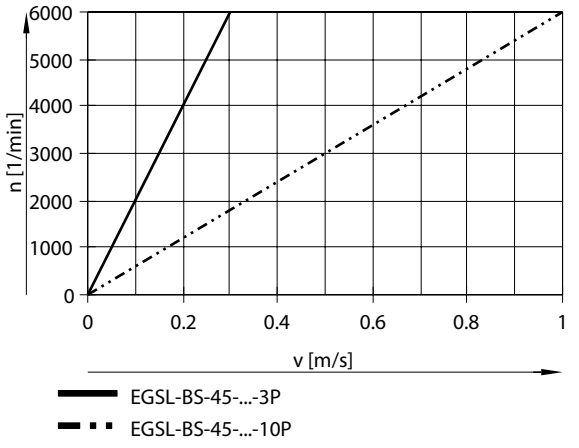


The service life of the guide depends on the load. To be able to make a statement about the service life of the guide, the graph below plots the load comparison factor fv against the service life.
These values are only theoretical. You must consult your local Festo contact for a load comparison factor fv greater than 1.5.
Example:
A user wants to move a X kg load. The calculation results in a value of 1.5 for the load comparison factor fv. According to the graph, the guide has a service life of approx. 1.5x 10^6 cycles. Reducing the acceleration reduces the Mz and My values. A load comparison factor fv of 1 now results in a service life of 5x 10^6 cycles.

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

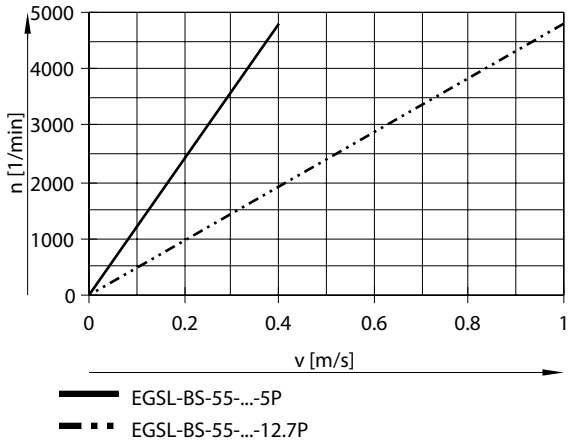


Rotational speed n as a function of feed speed v for size 45

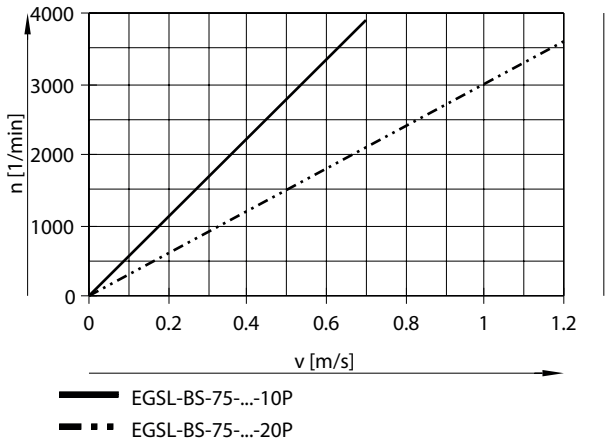


Datasheet

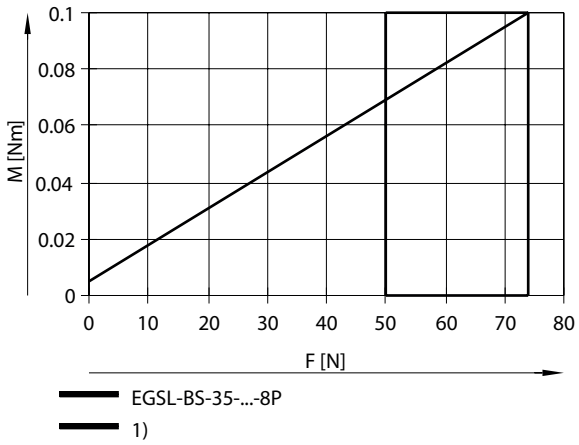
Rotational speed n as a function of feed speed v for size 55



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



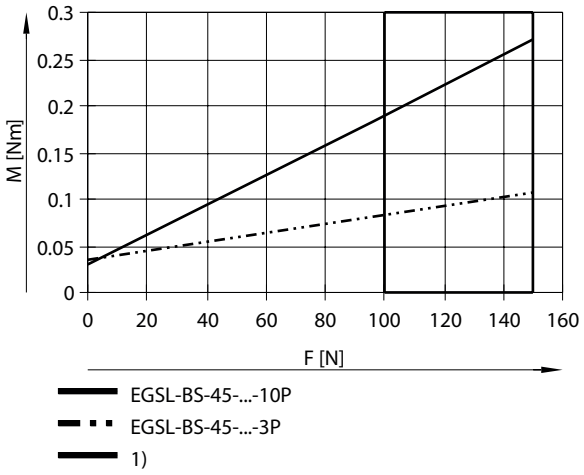
Drive torque M as a function of feed force F for size 35



1) This range should be used only briefly.

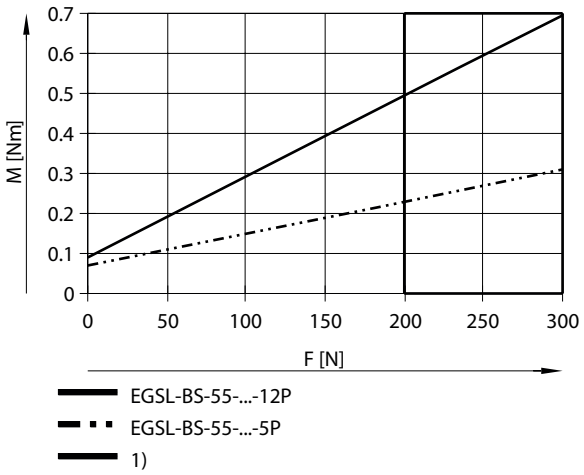
Datasheet

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



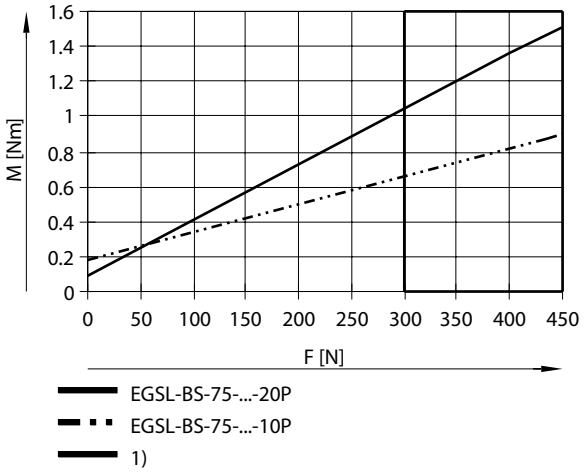
1) This range should be used only briefly.

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



1) This range should be used only briefly.

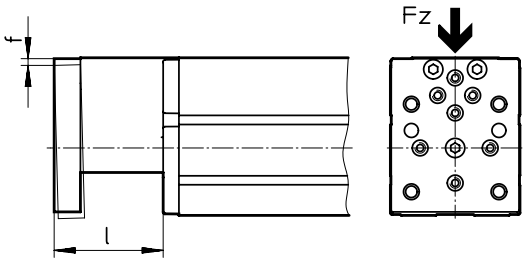
Drive torque M as a function of feed force F for size 75



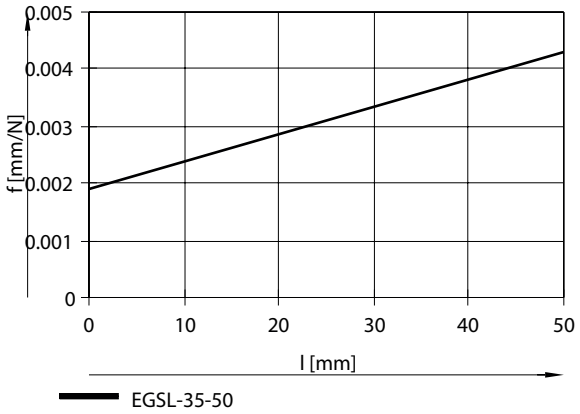
1) This range should be used only briefly.

Datasheet

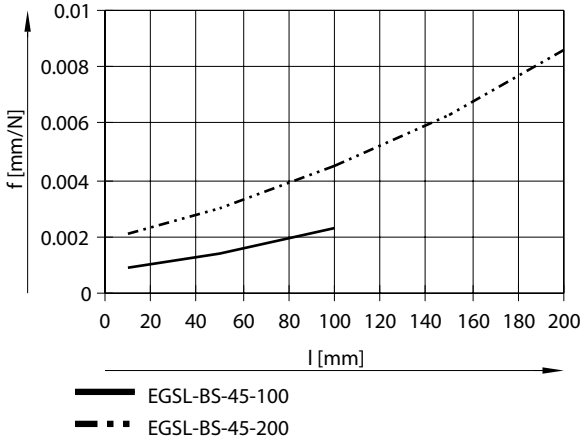
Deflection x as a function of force Fz



Deflection x as a function of force Fz for size 35

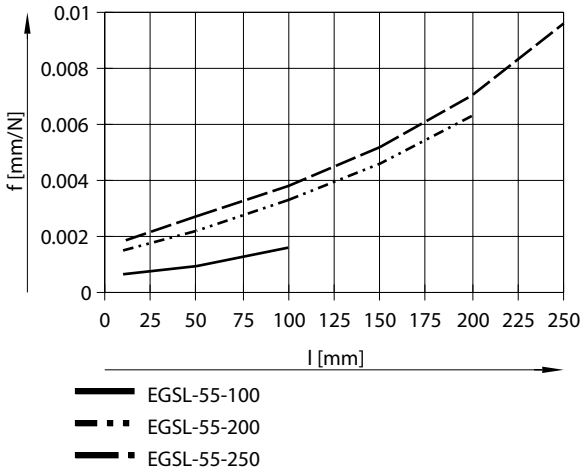


Deflection x as a function of force Fz for size 45

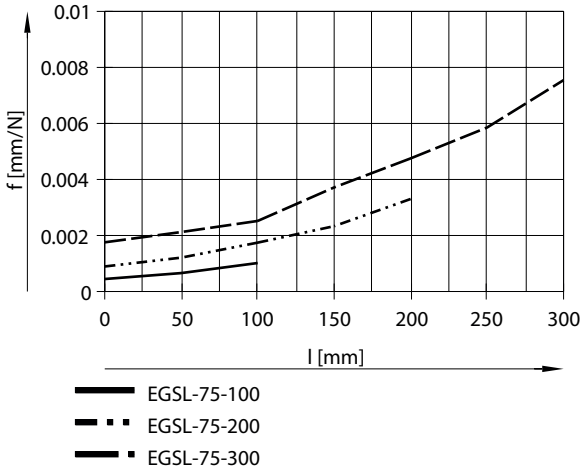


Datasheet

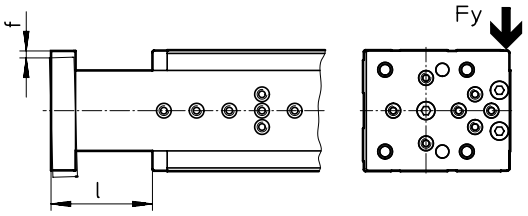
Deflection x as a function of force Fz for size 55



Deflection x as a function of force Fz for size 75

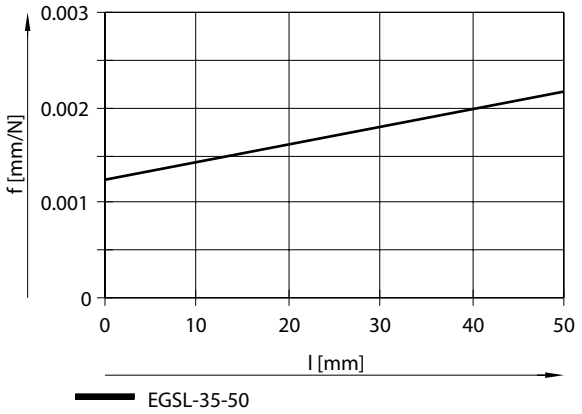


Deflection x as a function of force Fy

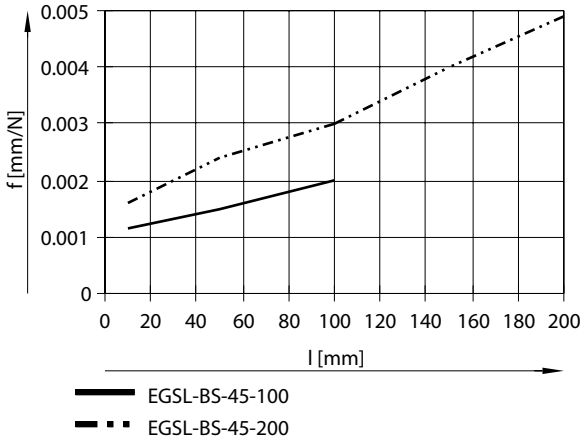


Datasheet

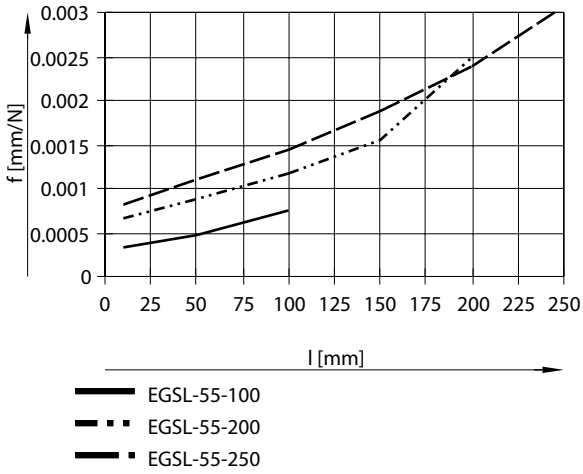
Deflection x as a function of force Fy for size 35



Deflection x as a function of force Fy for size 45

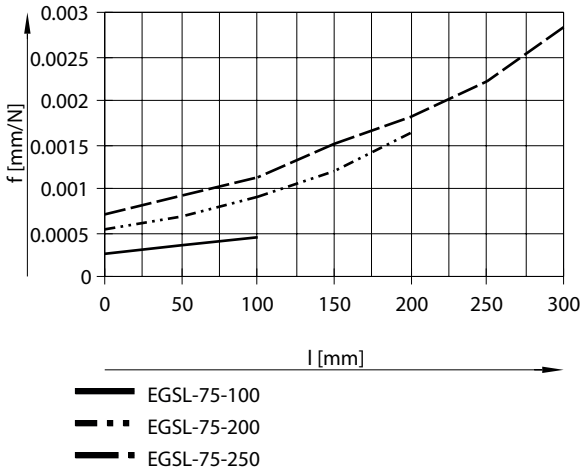


Deflection x as a function of force Fy for size 55

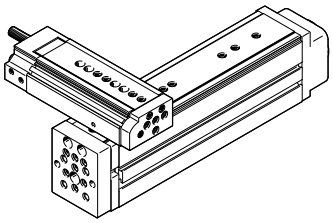


Datasheet

Deflection x as a function of force Fy for size 75



Possible combinations via guide (direct mounting)

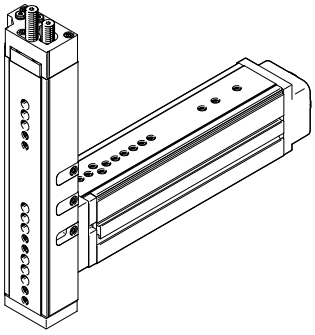


Below: [1]
Top: [2]

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]

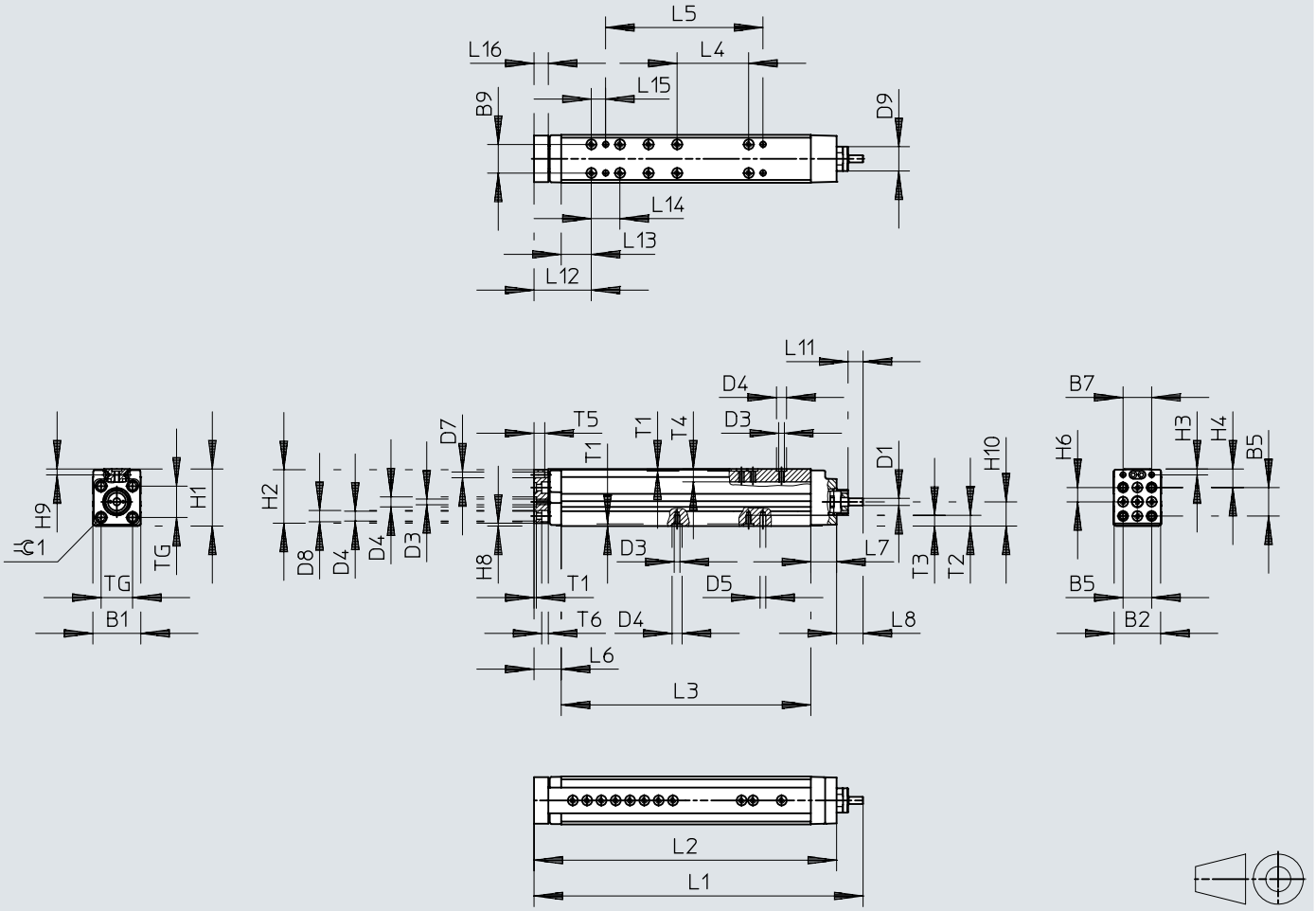
Datasheet

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 ±0,5	D1 ø	D3	D4 ø H7	D5 ø H7	D7 ø
EGSL-35	33,5	33	20	20	20	5	M4	7	4	4

	D8 ø	D9 ø 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 ±0,1	T2	T3	T4	T5	T6	TG	⌭ 1
EGSL-35	10	1,6	7,6	7,5	9	7,5	4,6	22	5

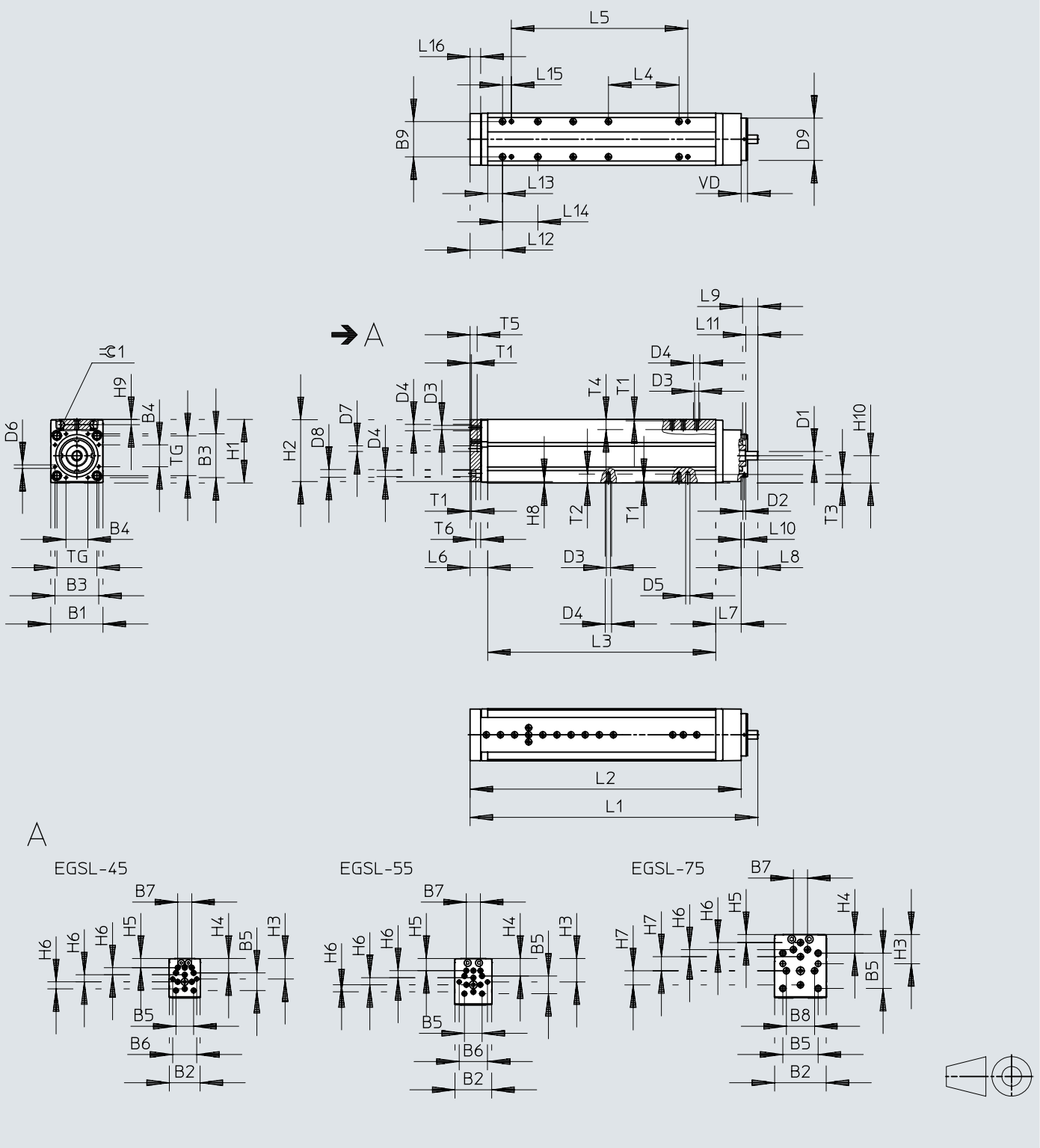
	L[1]	L1		L2		L3	L5[4]
		2) ±1,5	3) ±1,5	2) ±1	3) ±1	–0,2	±0,05
EGSL-35	50	182	180	163,5	161,5	124,5	60

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

Dimensions

Dimensions – Mini slide EGSL, size 45, 55, 75

Download CAD data www.festo.com



Dimensions

	B1	B2	B3	B4	B5	B6	B7	B8	B9 ±0,5	D1 Ø
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 Ø H7	D5 Ø H7	D6	D7 Ø	D8 Ø	D9 Ø 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

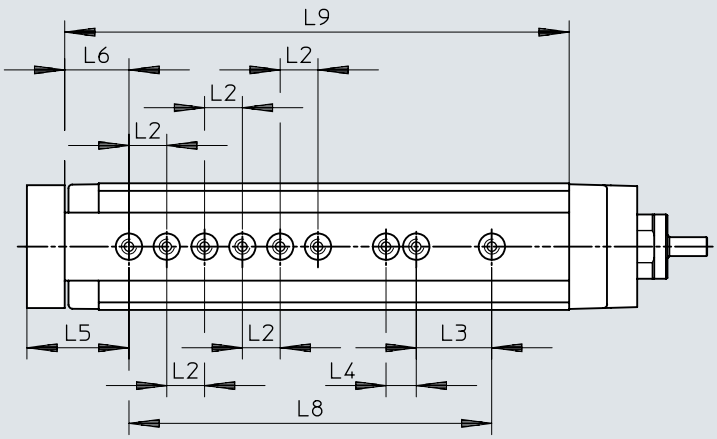
	L16	T1 ±0,1	T2	T3	T4	T5	T6	TG	VD	=⊂ 1
EGSL-45	10	1,6	8,1	7,5	12,4	7,5	5,7	32,5	7	6
EGSL-55	15	1,6	8,6	8,5	12,4	10	8,7	38	7	6
EGSL-75	15	2,1	12,6	12	14,5	10	6,8	56,5	9	8

	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

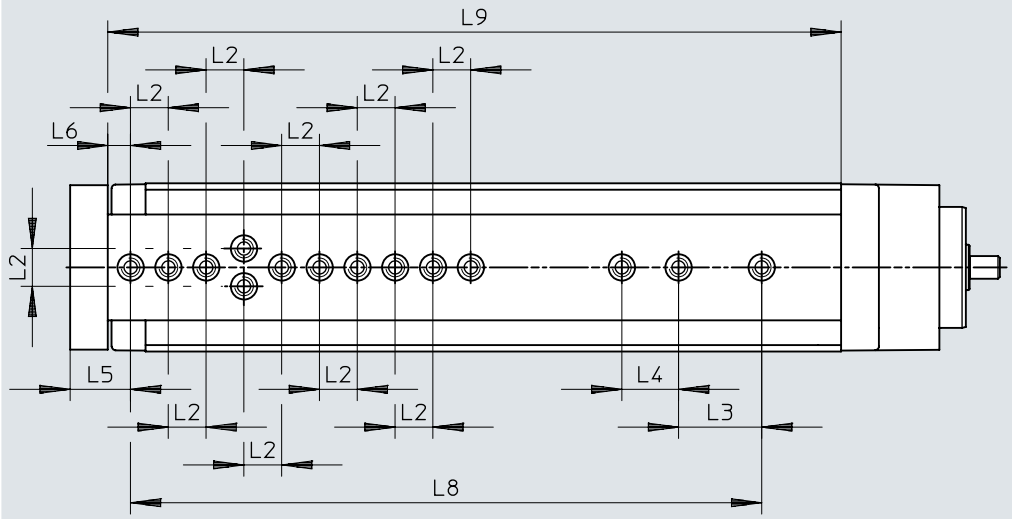


	L[1]	L2[2]	L3[2]	L4[2]	L5	L6	L8[2]	L9
EGSL-35	50	10	20	8	27	17	96	133,5

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

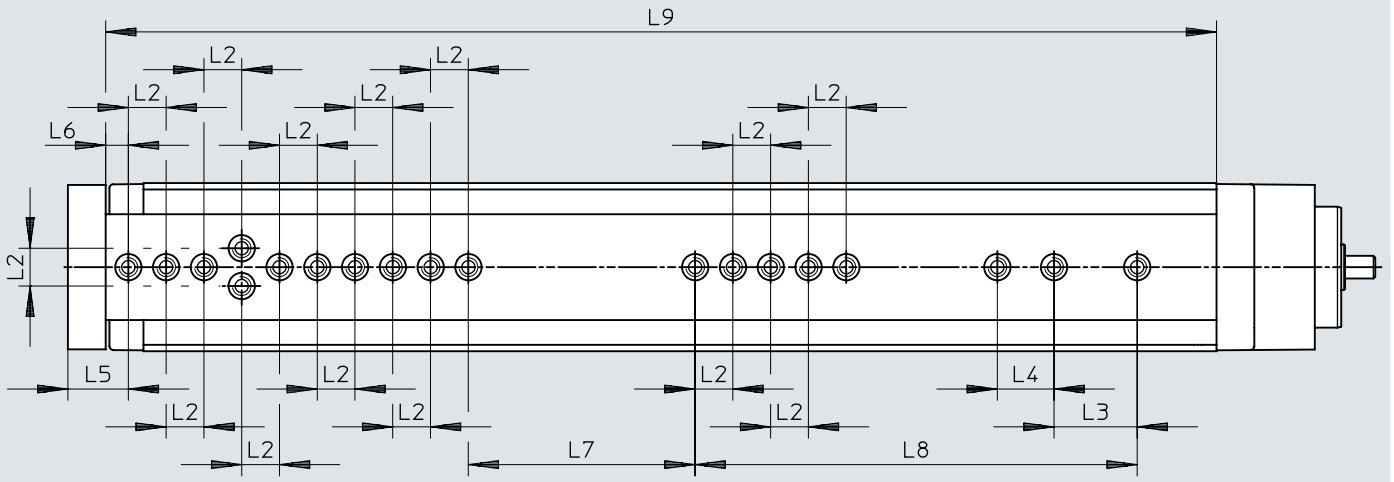


	L[1]	L2[2]	L3[2]	L4[2]	L5	L6	L8[2]	L9
EGSL-45	100	10	22	15	16	6	167	194

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

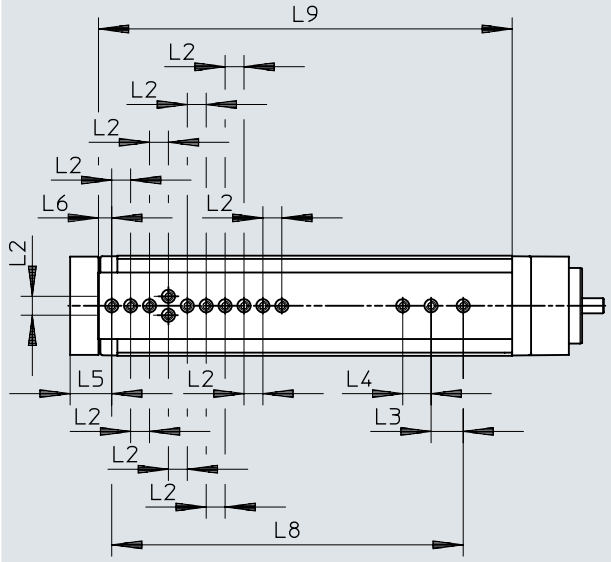


	L[1]	L2[2]	L3[2]	L4[2]	L5	L6	L7[2]	L8[2]	L9
EGSL-45	200	10	22	15	16	6	60	117	294

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

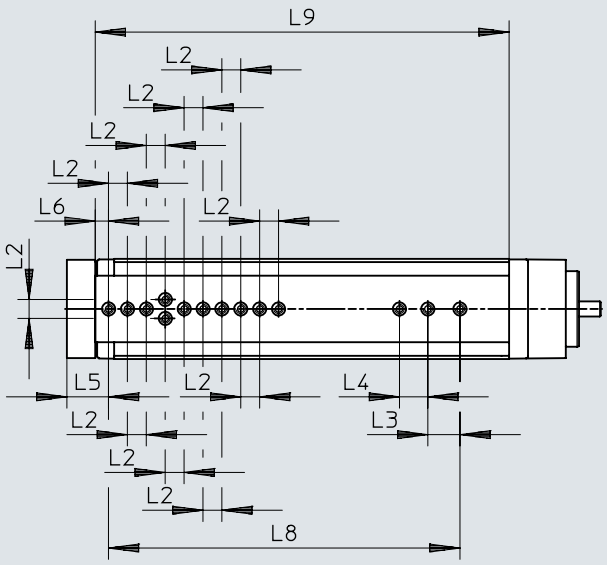


	L[1)]	L2[2)]	L3[2)]	L4[2)]	L5	L6	L8[2)]	L9
EGSL-55	100	10	17	15	22	7	186	219

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

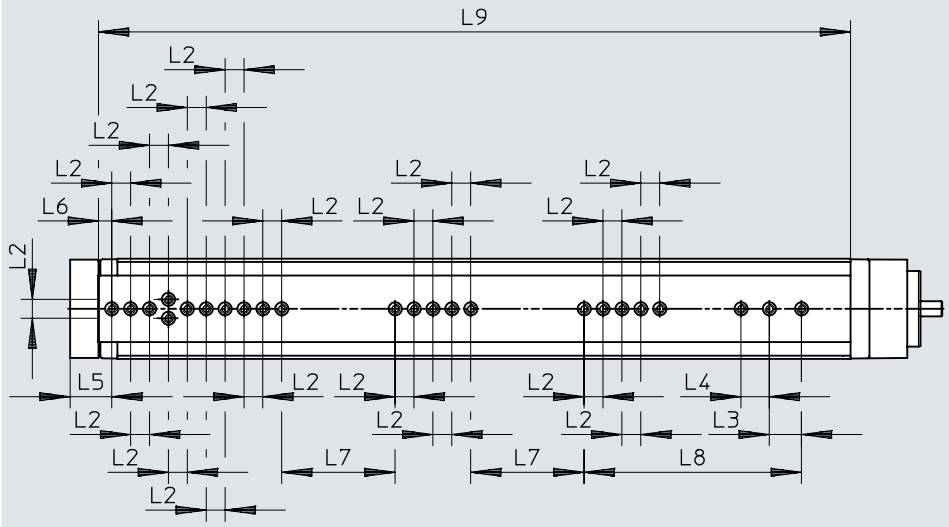


	L[1)]	L2[2)]	L3[2)]	L4[2)]	L5	L6	L7[2)]	L8[2)]	L9
EGSL-55	200	10	17	15	22	7	60	136	319

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

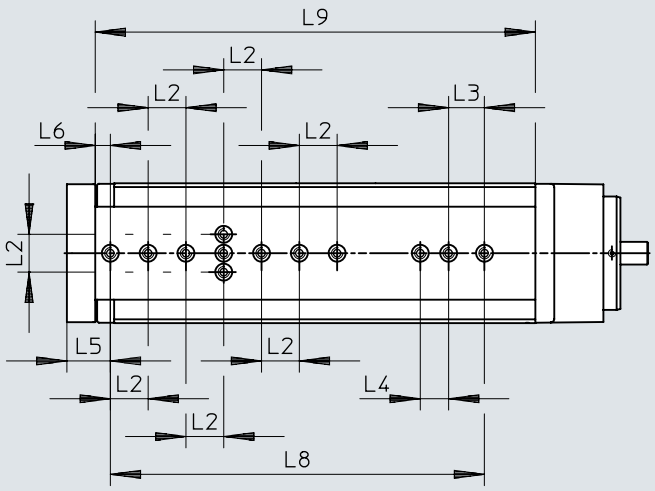


	L[1]	L2[2]	L3[2]	L4[2]	L5	L6	L7[2]	L8[2]	L9
EGSL-55	250	10	17	15	22	7	60	115	398

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

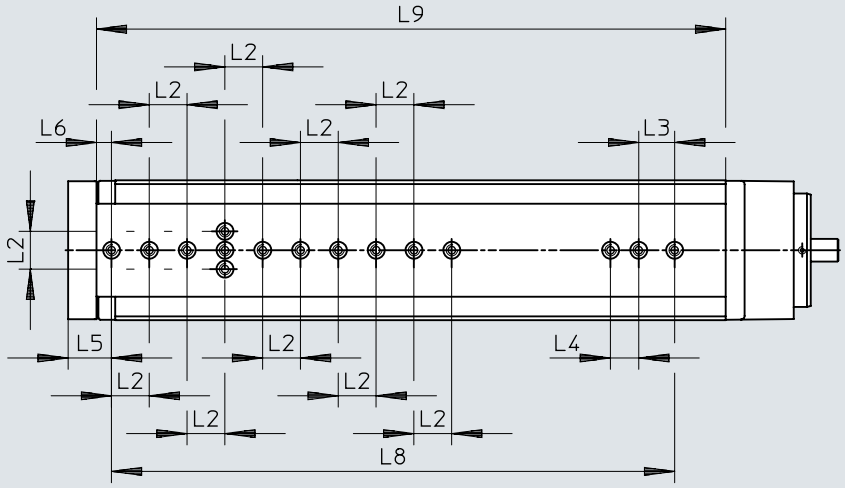


	L[1)]	L2[2)]	L3[2)]	L4[2)]	L5	L6	L8[2)]	L9
EGSL-75	100	20	19	15	23	8	198	233

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

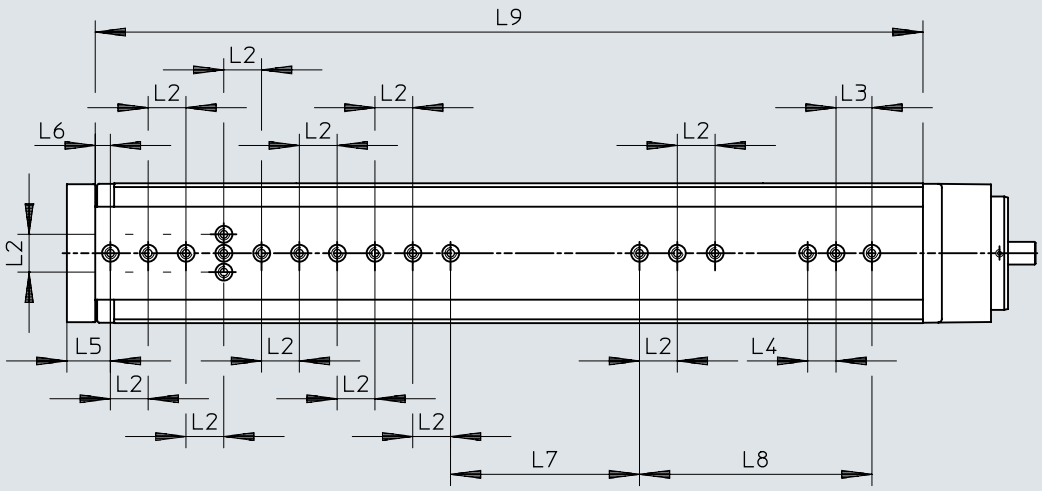


	L[1]	L2[2]	L3[2]	L4[2]	L5	L6	L8[2]	L9
EGSL-75	200	20	19	15	23	8	298	333

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



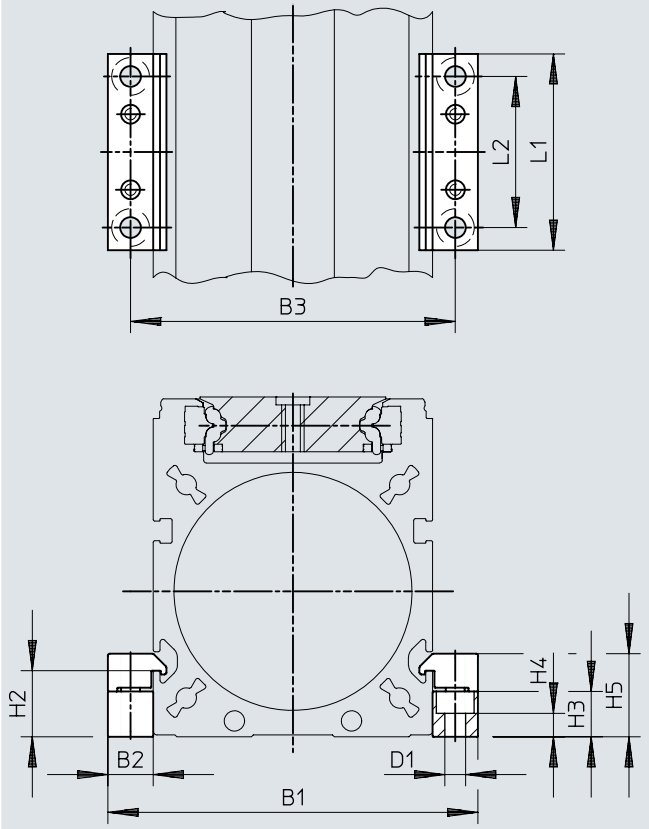
	L[1)]	L2[2)]	L3[2)]	L4[2)]	L5	L6	L7[2)]	L8[2)]	L9
EGSL-75	300	20	19	15	23	8	100	123	438

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

Dimensions

Dimensions – Profile mounting EAHF/MUE

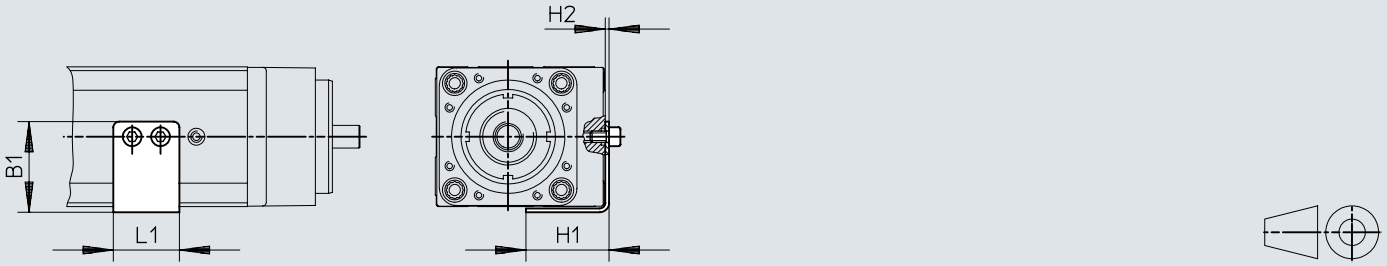
Download CAD data www.festo.com



		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

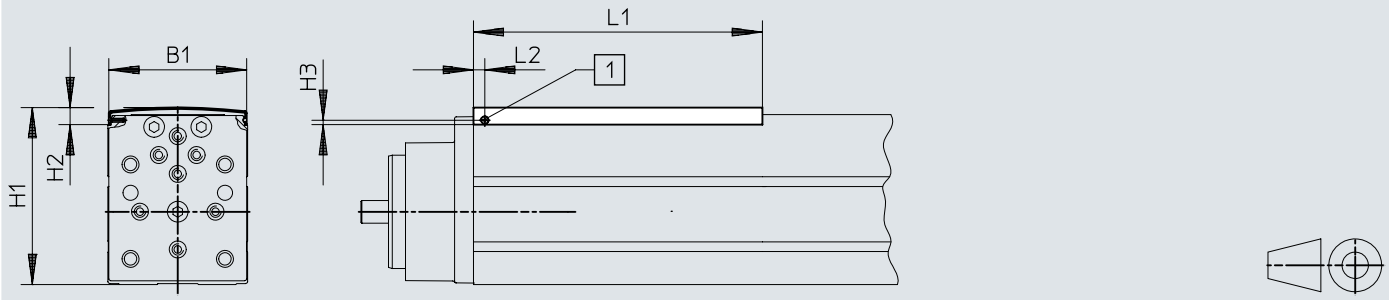


[1] The switch lug may only be fitted on the threads provided for this purpose (rear guide rail).

	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



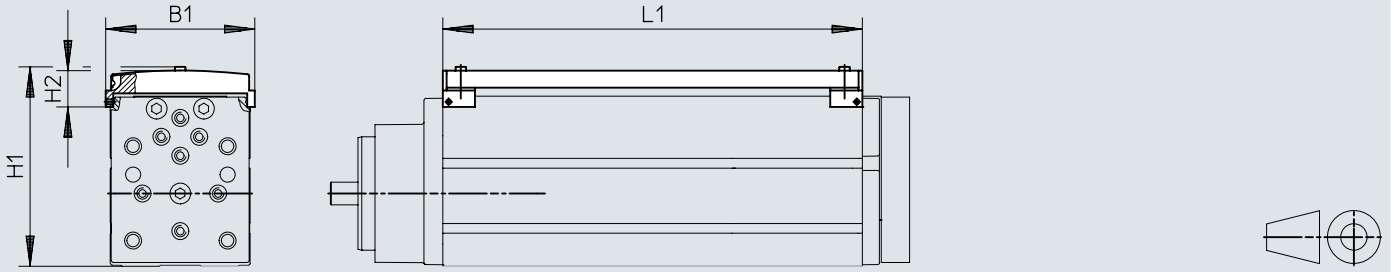
[1] M2 countersunk screw

	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

Dimensions – Covering EASC-...-F Download CAD data www.festo.com

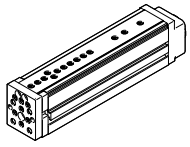


	1)	B1	H1	H2	L1 −0,5
EASC-G1-35-50-F	50	38,3	55	19,1	119,5
EASC-G1-45-100-F	100	49,7	71,5	19,6	179
EASC-G1-45-200-F	200				279
EASC-G1-55-100-F	100	58,2	81,5	19,6	204
EASC-G1-55-200-F	200				304
EASC-G1-55-250-F	250				383
EASC-G1-75-100-F	100	78,9	105,5	19,4	218
EASC-G1-75-200-F	200				318
EASC-G1-75-300-F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

1) Length

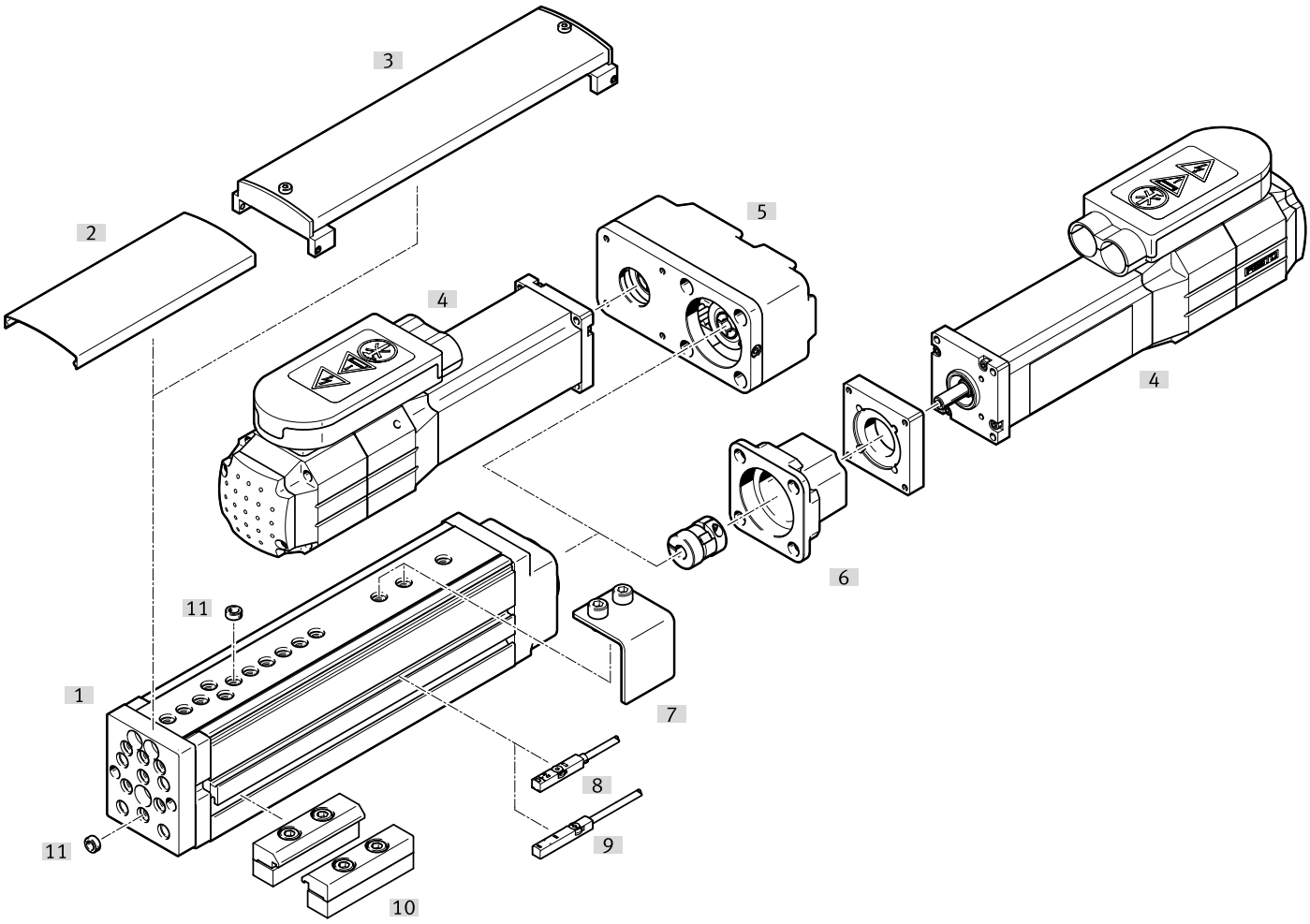
Ordering data

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

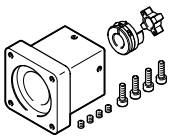
Peripherals overview



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)	eamm-u
[6]			eamm-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

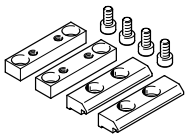
Permitted axis/motor combinations for axial and parallel kits



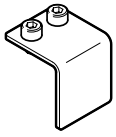
You can find all the information in the following links:
- Axis/motor combinations
- Permitted third-party motors
- Technical data
- Dimensions

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

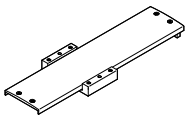
Profile mounting EAHF/MUE

	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

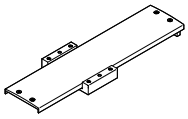
Switch lug EAPM

	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
				570874	EASC-G1-35-500
	45			570823	EASC-G1-45-200
				570875	EASC-G1-45-500
				570822	EASC-G1-45-100
	55			570824	EASC-G1-55-100
				570876	EASC-G1-55-500
				570826	EASC-G1-55-250
				570825	EASC-G1-55-200
	75			570829	EASC-G1-75-300
				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
				570833	EASC-G1-45-100-F
	55			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**

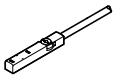
Centring sleeve ZBH-9

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

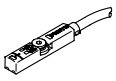
Connector sleeve ZBV

	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**

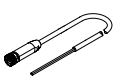
Proximity switch SIES for T-slot, inductive — Link sies-8m

	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

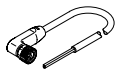
	Type of mounting	Switching output	Electrical connection 1, connection type	Cable length	Part no.	Type
	Screw-clamped, Insertable in the slot from above	PNP	Cable	2.5 m	★ **574335**	**SMT-8M-A-PS-24V-E-2,5-OE**
			Cable with plug	0.3 m	★ **574334**	**SMT-8M-A-PS-24V-E-0,3-M8D**

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** 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	★ **8078230**	**NEBA-M8W3-U-2.5-N-LE3**
				5 m	★ **8078231**	**NEBA-M8W3-U-5-N-LE3**