

Mini slides EGSL, electric

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Mini slides EGSL, electric

Key features

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At a glance

- Electric slide series
- Maximum performance in compact space:
 - Precision
 - Load capacity
 - Dynamic response
- Choice of homing:
 - To fixed stop
 - To reference switch
- Perfect for vertical applications
- System product for handling and assembly technology
- Wide range of options for mounting on drives

Motor mounting variants

Axial

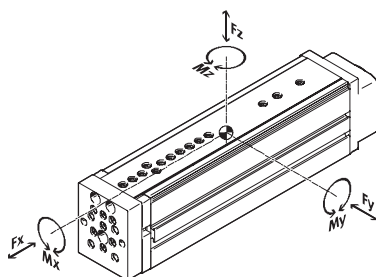
Parallel

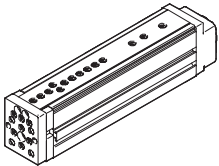


Characteristic values of the axes

The specifications shown in the table are maximum values.

The precise values for each of the variants can be found in the relevant technical data.



Version	Size	Working stroke [mm]	Speed [m/s]	Max. acceleration [m/s ²]	Repetition accuracy [mm]	Feed force Fx [N]	Guide characteristics				
							Forces and torques				
							Fy [N]	Fz [N]	Mx [Nm]	My [Nm]	Mz [Nm]
	35	50	0.5	25	±0.015	75	286	286	4.3	4.2	4.2
	45	100, 200	1.0	25	±0.015	150	438	438	12.9	11.3	11.3
	55	100, 200, 250	1.0	25	±0.015	300	727	727	23.0	21.5	21.5
	75	100, 200, 300	1.3	25	±0.015	450	1,069	1,069	46.8	32.7	32.7

Note

PositioningDrives
sizing software
www.festo.com

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Key features

Complete system comprising mini slide, motor, motor controller and motor mounting kit

Mini slide

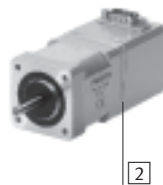


Motor

→ 22



1



2

- 1 Servo motor EMMS-AS
- 2 Stepper motor EMMS-ST

Note

A range of specially adapted complete solutions is available for the mini slide EGSL and the motors.

Motor controller

Technical data → Internet: motor controller



1



2

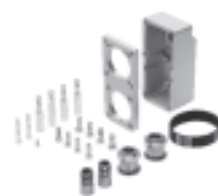
- 1 Servo motor controller CMMP-AS, CMMS-AS
- 2 Stepper motor controller EMMS-ST

Motor mounting kit

→ 22

Axial kit

Parallel kit



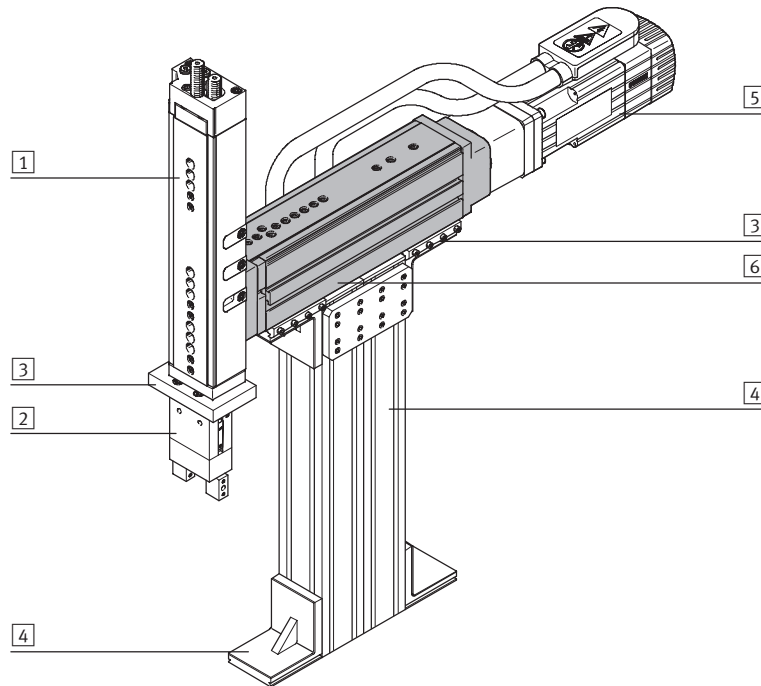
There are complete kits for both parallel and axial motor mounting.

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Key features and type codes

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System product for handling and assembly technology



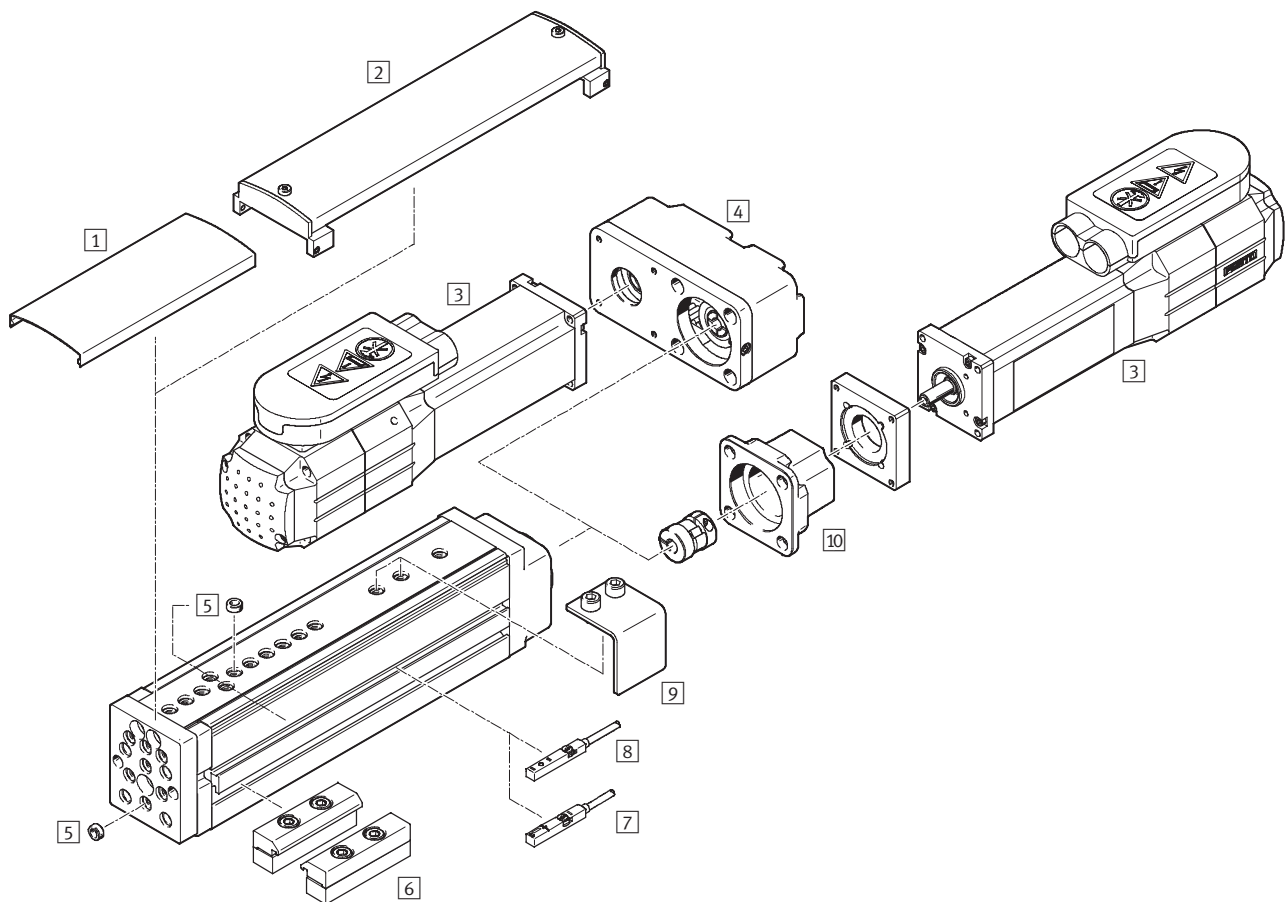
System components and accessories		
	Brief description	→ Page/Internet
1 Drives	Wide range of combinations possible within handling and assembly technology	drive
2 Grippers	Wide range of variations possible within handling and assembly technology	gripper
3 Adapters	For drive/drive and drive/gripper connections	adapter kit
4 Basic components	Profiles and profile connections as well as profile/drive connections	basic component
5 Motors	Servo and stepper motors, with or without gearing	motor
6 Axes	Wide range of combinations possible within handling and assembly technology	axis
– Installation components	For a clear, safe layout of electrical cables and tubing	installation component

Type codes

		EGSL	–	BS	–	45	–	200	–	10P
Type										
EGSL	Mini slide									
Drive function										
BS	Ball screw spindle									
Size										
Stroke [mm]										
Spindle pitch [mm]										

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Peripherals overview



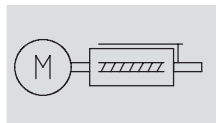
Variants and accessories		
Type	Brief description	→ Page/Internet
1 Cover EASC-...	- For protection, so that no foreign parts can get into the guide - The cover can be shortened by the customer as required	27
2 Cover EASC-...-F	- This cover must be used in combination with the switching lug EAPM - For protection, so that no foreign parts can get into the guide	27
3 Motor EMMS	Motors specially matched to the axis, with or without brake	22
4 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)	23
5 Centring sleeve ZBH	- For centring loads and attachments - Makes lateral mounting on the slide much easier	28
6 Profile mounting EAHF, MUE	For mounting the axis	26
7 Proximity sensor SIES	Inductive proximity sensor, for slot type 8	28
8 Proximity sensor SMT-8-...-B	Magnetic proximity sensor, for slot type 8	28
9 Switching lug EAPM	For sensing the slide position via proximity sensors SIES	26
10 Axial kit EAMM-A	For axial motor mounting (comprising: coupling, coupling housing and motor flange)	22
- Connecting cable NEBU	For proximity sensor SIES or SMT-8-...-B	28

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Technical data

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Function



Note

All values are based on a room temperature of 20 °C.



-  - Size
35, 45, 55, 75
-  - Stroke length
50 ... 300 mm

General technical data								
Size		35	45		55		75	
Spindle pitch	[mm]	8	3	10	5	12.7	10	20
Design		Electric mini slide						
		With recirculating ball spindle						
		With guide						
Guide		Ball bearing cage guide						
Type of mounting		Via female thread						
		Via centring sleeve						
		Via accessories						
Mounting position		Any						
Working stroke	[mm]	50	100, 200		100, 200, 250		100, 200, 300	
Guide value for effective load, horizontal	[kg]	2	6		10		14	
Guide value for effective load, vertical	[kg]	1	3		5		7	
Continuous feed force F_x	[N]	50	100		200		300	
Max. feed force F_x	[N]	75	150		300		450	
Max. no-load driving torque								
Stroke = 50 mm	[Nm]	0.008	–	–	–	–	–	–
Stroke = 100 mm	[Nm]	–	0.046	0.019	0.091	0.066	0.208	0.151
Stroke = 200 mm	[Nm]	–	0.050	0.033	0.079	0.043	0.157	0.111
Stroke = 250 mm	[Nm]	–	–	–	0.079	0.120	–	–
Stroke = 300 mm	[Nm]	–	–	–	–	–	0.243	0.134
Max. driving torque ¹⁾	[Nm]	0.2	0.45	0.51	0.9	1.25	3.25	3.25
Max. radial force ²⁾	[N]	20	120		260		300	
Max. speed	[m/s]	0.5	0.3	1.0	0.4	1.0	0.65	1.3
Nominal acceleration	[m/s ²]	15						
Max. acceleration ³⁾	[m/s ²]	25						
Repetition accuracy	[mm]	±0.015						
Max. reversing backlash ⁴⁾	[μm]	≤50						

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

2) At the drive shaft

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

4) In new condition

Operating and environmental conditions				
Size	35	45	55	75
Ambient temperature [°C]	0 ... +60			
Protection class	IP40			
Duty cycle [%]	100			
Noise level [dB (A)]	60		65	
Maintenance interval	Maintenance-free			

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Weight [kg]				
Size	35		45	
Stroke [mm]	50		100	200
Product weight	0.6		1.6	2.2
Moving load	0.3		0.7	0.9

Size	55			75		
Stroke [mm]	100	200	250	100	200	300
Product weight	2.6	3.4	4.1	5.1	6.5	8.1
Moving load	1.2	1.5	1.8	2.3	2.9	3.4

Mass moment of inertia – for sizing the motor							
Size	35			45			
Spindle pitch [mm]	8			3		10	
Stroke [mm]	50			100	200	100	200
J_0 [kg mm ²]	4.26			4.59	5.14	6.14	7.31
J_L per kg effective load [kg mm ² /kg]	1.62			0.23	0.23	2.53	2.53

Size	55						75					
Spindle pitch [mm]	5			12.7			10			20		
Stroke [mm]	100	200	250	100	200	250	100	200	300	100	200	300
J_0 [kg mm ²]	13.52	14.77	15.74	18.27	21.13	23.27	86.95	96.49	106.67	105.12	119.45	134.59
J_L per kg effective load [kg mm ² /kg]	0.63	0.63	0.63	4.09	4.09	4.09	2.53	2.53	2.53	10.13	10.13	10.13

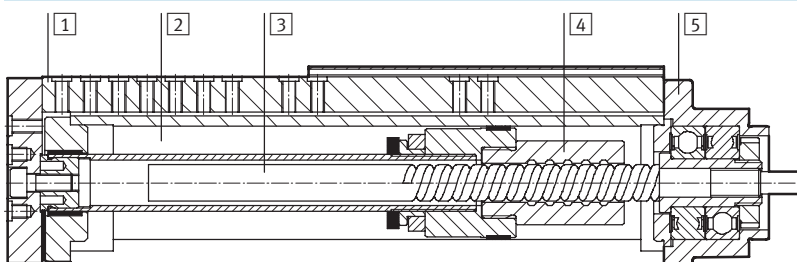
The mass moment of inertia J_A of the entire axis is calculated as follows:

$$J_A = J_0 + J_L \times m_{\text{effective load}} \text{ [kg]}$$

The inertia of the motor mounting kit and motor is not taken into consideration here.

Materials

Sectional view



Axis		
1	Guide rail	Rolled steel
2	Housing	Anodised wrought aluminium alloy
3	Spindle	Rolled steel
4	Spindle nut	Rolled steel
5	End cap	Painted aluminium
Note on materials		RoHS-compliant
		Contains PWIS (paint-wetting impairment substances)

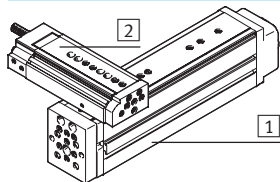
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Possible combinations

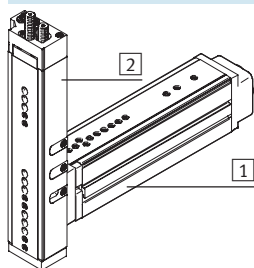
Via guide



Direct mounting

	1 Basic drive				
		EGSL-35	EGSL-45	EGSL-55	EGSL-75
2 Assembly drive	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 HMSV-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

Via yoke plate



Direct mounting

	1 Basic drive				
		EGSL-35	EGSL-45	EGSL-55	EGSL-75
2 Assembly drive	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

Note

Ordering data for centring sleeves
ZBH and connecting sleeves ZBV
→ 28.

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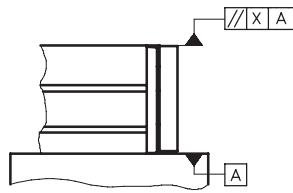
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Parallelism [mm]

The term parallelism refers to the accuracy of alignment between the mounting surface and the slide surface.

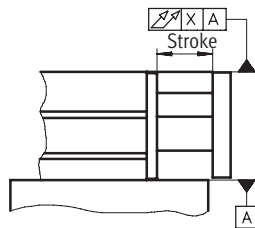
Specifications apply in retracted state.



Size	Stroke [mm]	35	45	55	75
Parallelism X	50	0.03	–	–	–
	100	–	0.05	0.05	0.05
	200	–	0.1	0.1	0.1
	250	–	–	0.125	–
	300	–	–	–	0.15

Linearity [mm]

Linearity refers to the max. difference between normal position and the reference plane experienced at any point of the moving axis components when traversing the entire stroke.



Size	Stroke [mm]	35	45	55	75
Linearity X	50	0.02	–	–	–
	100	–	0.04	0.04	0.04
	200	–	0.08	0.08	0.08
	250	–	–	0.10	–
	300	–	–	–	0.12

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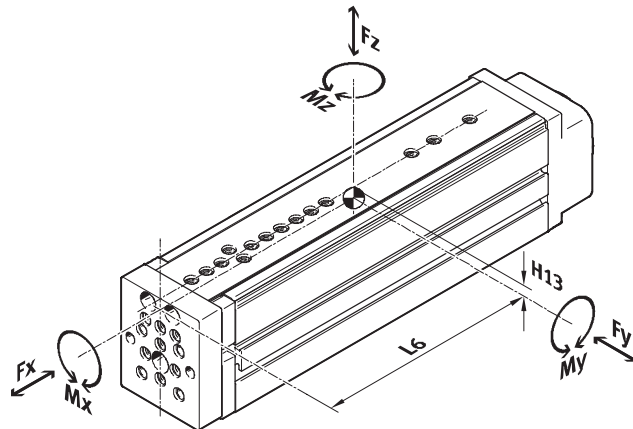
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Dynamic characteristic load values

The indicated forces and torques refer to the centre of the guide.

These values must not be exceeded during dynamic operation.



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

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

Permissible forces and torques						Geometric characteristics	
Size	Stroke [mm]	$F_{y,max}$ [N]	$F_{z,max}$ [N]	$M_{x,max}$ [Nm]	$M_{y,max}, M_{z,max}$ [Nm]	H13 [mm]	L6 [mm]
35							
	50	286	286	4.3	4.2	4.2	106
45							
	100	438	438	12.9	11.3	6.4	162
	200	194	194	9.5	8.2	6.4	262
55							
	100	727	727	23.0	21.5	6.4	180
	200	340	340	16.8	15.7	6.4	280
	250	375	375	18.0	22.0	6.4	344
75							
	100	1 069	1 069	46.8	32.7	7.6	187
	200	476	476	32.3	22.5	7.6	287
	300	370	370	30.9	24.3	7.6	389

Note

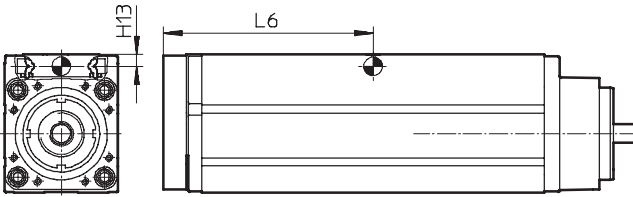
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Position of the guide centre



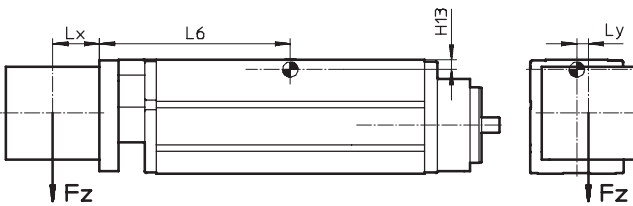
Calculation example

Given:

Type: EGSL-BS-45-100-10P
 Stroke length = 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 calculated:

F_y , F_z , M_x , M_y , M_z
 and
 verification of operation
 with combined load



Solution:

$L6 = 0.162$ m from table

$F_y = 0$ N

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

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

$M_y = F_z \times (L6 + L_x)$
 $= 49.05 \text{ N} \times (0.162 \text{ m} + 0.03 \text{ m}) = 9.42 \text{ Nm}$

$M_z = 0$ Nm

Combined load:

$$\frac{|F_y|}{F_{y_{\max.}}} + \frac{|F_z|}{F_{z_{\max.}}} + \frac{|M_x|}{M_{x_{\max.}}} + \frac{|M_y|}{M_{y_{\max.}}} + \frac{|M_z|}{M_{z_{\max.}}}$$

$$= 0 + \frac{49.05 \text{ N}}{438 \text{ N}} + \frac{0.49 \text{ Nm}}{12.9 \text{ Nm}} + \frac{9.42 \text{ Nm}}{11.3 \text{ Nm}} + 0 = 0.98 \leq 1$$

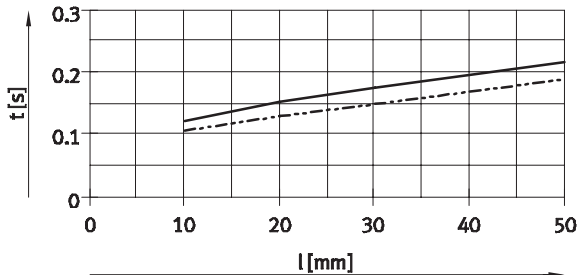
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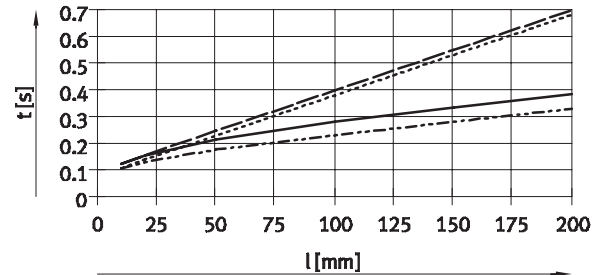
Positioning time t as a function of stroke l

EGSL-35



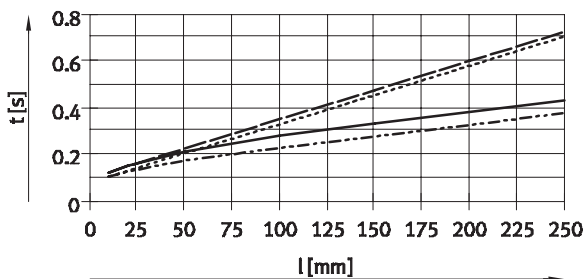
- EGSL-BS-35-50-8P at 15 m/s²
- - - EGSL-BS-35-50-8P at 25 m/s²

EGSL-45



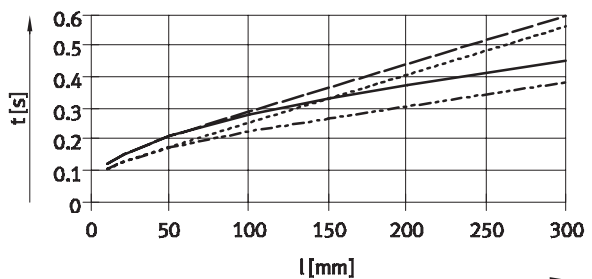
- EGSL-BS-45-...-10P at 15 m/s²
- - - EGSL-BS-45-...-10P at 25 m/s²
- EGSL-BS-45-...-3P at 15 m/s²
- - - EGSL-BS-45-...-3P at 25 m/s²

EGSL-55



- EGSL-BS-55-...-12.7P at 15 m/s²
- - - EGSL-BS-55-...-12.7P at 25 m/s²
- EGSL-BS-55-...-5P at 15 m/s²
- - - EGSL-BS-55-...-5P at 25 m/s²

EGSL-75

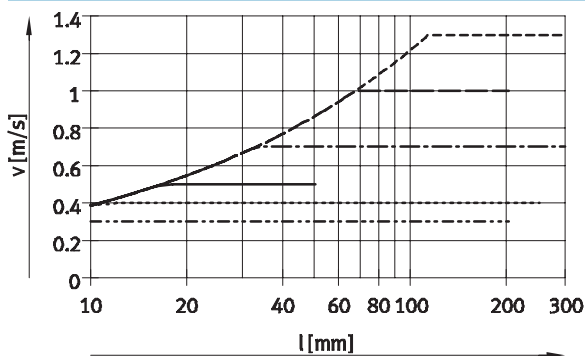


- EGSL-BS-75-...-20P at 15 m/s²
- - - EGSL-BS-75-...-20P at 25 m/s²
- EGSL-BS-75-...-10P at 15 m/s²
- - - EGSL-BS-75-...-10P at 25 m/s²

Note

Nominal acceleration = 15 m/s²
Max. acceleration = 25 m/s²

Achievable feed speed v as a function of stroke l



- EGSL-BS-35-...-8P
- - - EGSL-BS-45-...-3P
- EGSL-BS-45-...-10P
- EGSL-BS-55-...-12.7P
- - - EGSL-BS-55-...-5P
- EGSL-BS-75-...-10P
- - - EGSL-BS-75-...-20P

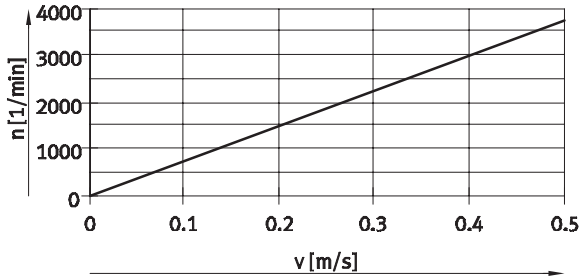
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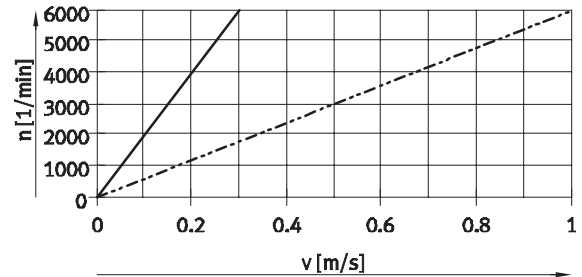
Rotational speed n as a function of feed speed v

EGSL-35



EGSL-BS-35-...-8P

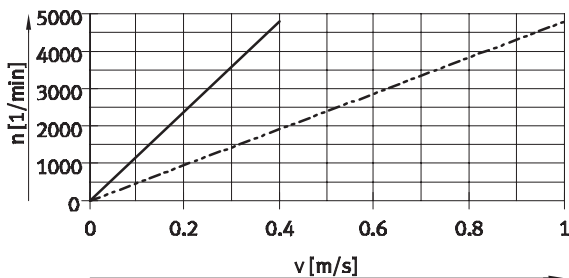
EGSL-45



EGSL-BS-45-...-3P

EGSL-BS-45-...-10P

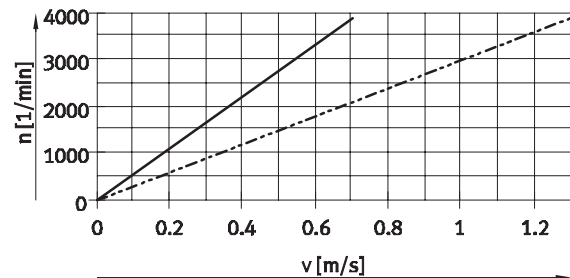
EGSL-55



EGSL-BS-55-...-5P

EGSL-BS-55-...-12.7P

EGSL-75

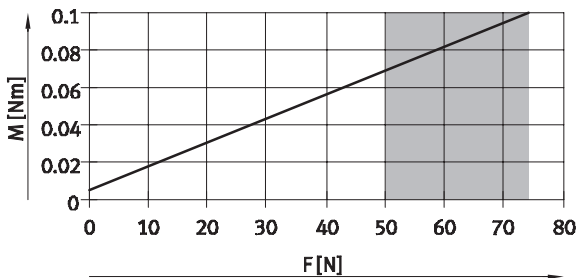


EGSL-BS-75-...-10P

EGSL-BS-75-...-20P

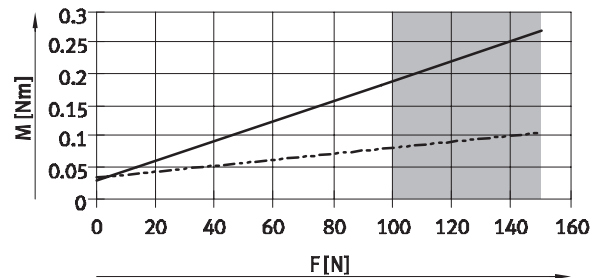
Driving torque M as a function of feed force F

EGSL-35



EGSL-BS-35-...-8P

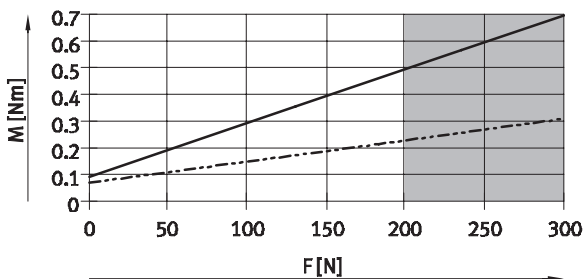
EGSL-45



EGSL-BS-45-...-10P

EGSL-BS-45-...-3P

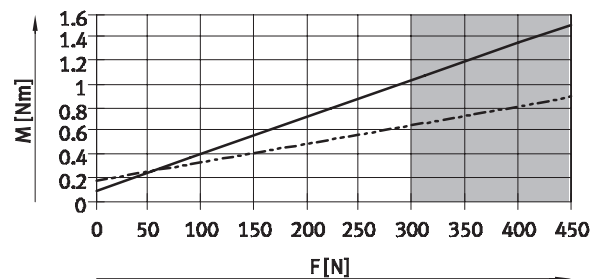
EGSL-55



EGSL-BS-55-...-12.7P

EGSL-BS-55-...-5P

EGSL-75



EGSL-BS-75-...-20P

EGSL-BS-75-...-10P

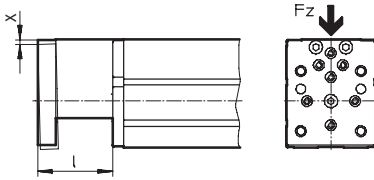
This range should be used only briefly.

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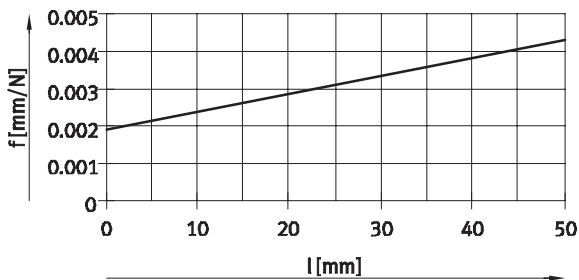
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FESTO

Deflection x as a function of force F_z and stroke l

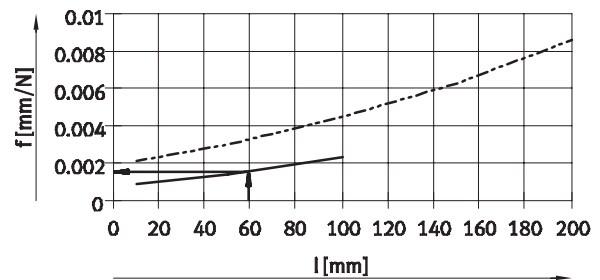


EGSL-35



EGSL-BS-35-50

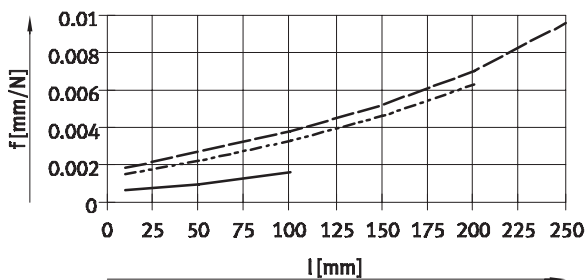
EGSL-45



EGSL-BS-45-100

EGSL-BS-45-200

EGSL-55

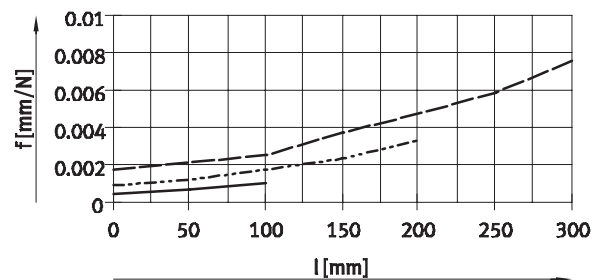


EGSL-BS-55-100

EGSL-BS-55-200

EGSL-BS-55-250

EGSL-75



EGSL-BS-75-100

EGSL-BS-75-200

EGSL-BS-75-300

Calculation example

Given:

EGSL-BS-45-100

l = 60 mm

F_z = 30 N

Mounting position:

Horizontal

Result:

The graph shows a resilience of $f = 0.0015 \text{ mm/N}$ with a stroke of 60 mm.

$$x = f \times F_z$$

$$x = 0.0015 \text{ mm/N} \times 30 \text{ N}$$

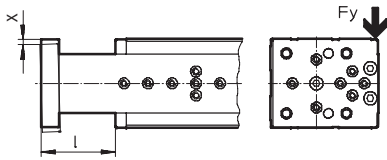
$$x = 0.045 \text{ mm}$$

Mini slides EGSL, electric

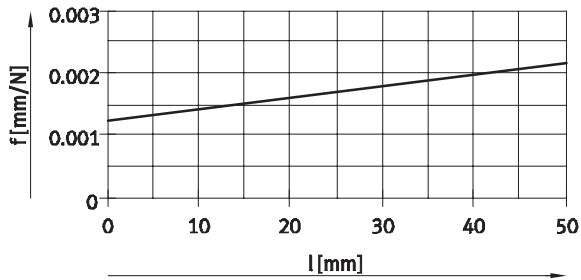
Technical data

FESTO

Deflection x as a function of force F_y and stroke l

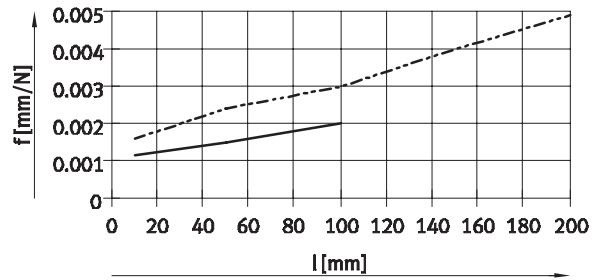


EGSL-35



EGSL-BS-35-50

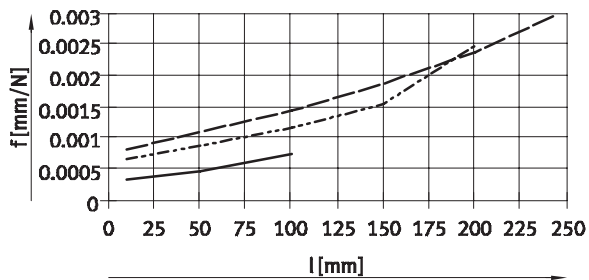
EGSL-45



EGSL-BS-45-100

EGSL-BS-45-200

EGSL-55

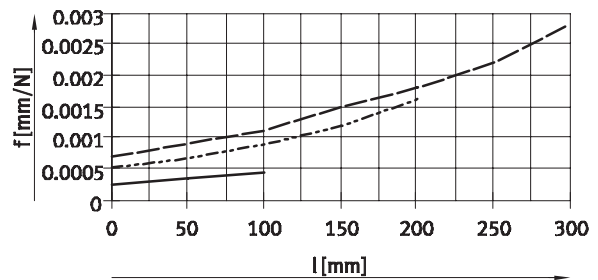


EGSL-BS-55-100

EGSL-BS-55-200

EGSL-BS-55-250

EGSL-75



EGSL-BS-75-100

EGSL-BS-75-200

EGSL-BS-75-300

Mini slides EGSL, electric

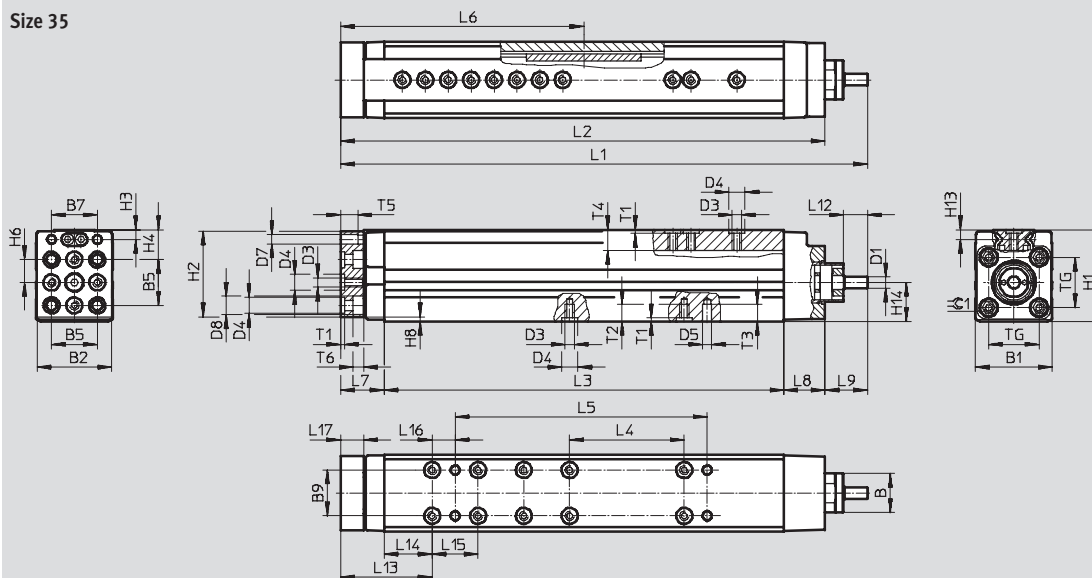
Technical data

FESTO

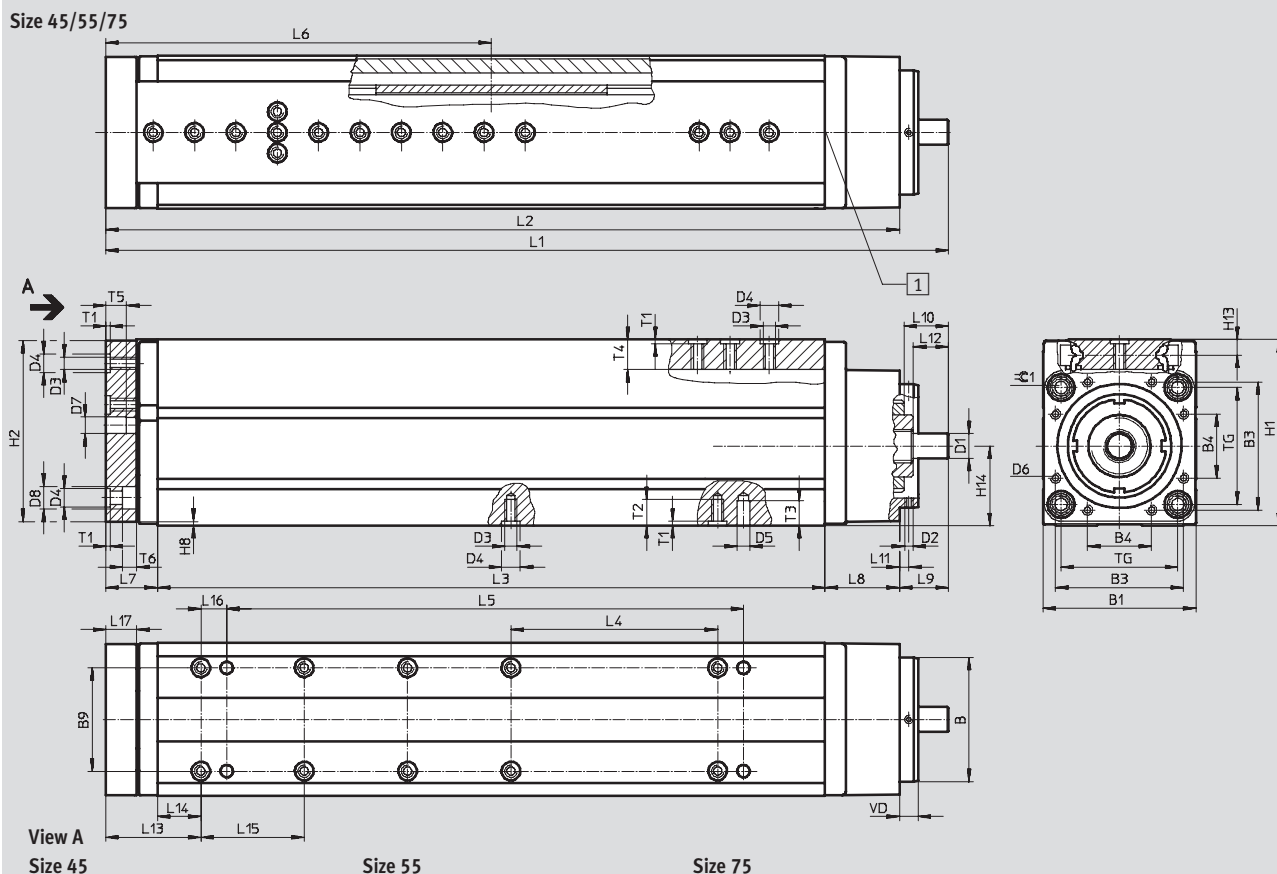
Dimensions

Download CAD Data → www.festo.com/us/cad

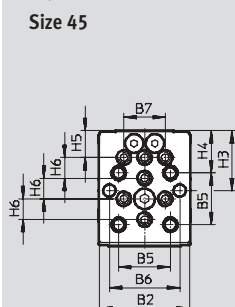
Size 35



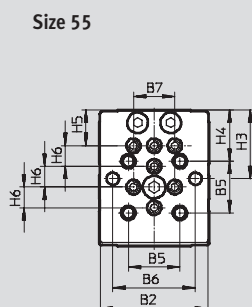
Size 45/55/75



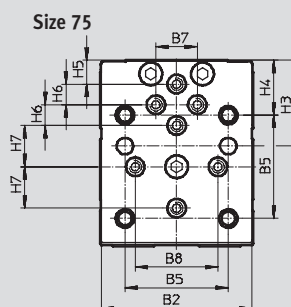
View A Size 45



Size 55



Size 75



1 Rubber buffers are integrated in the slide and can be removed for homing to the fixed stop.

Mini slides EGSL, electric

Technical data

FESTO

Size	B Ø g7	B1	B2	B3	B4	B5	B6	B7	B8	B9 ±0.5
35	19	33.5	33	–	–	20	–	20	–	20
45	32	44.5	43.5	32	19	25	34	20	–	25
55	40	53	52	42	20	25	40	20	–	25
75	60	74	73	62	31	50	–	20	40	50

Size	D1 Ø	D2	D3	D4 Ø H7	D5 Ø H7	D6	D7 Ø	D8 Ø	H1	H2
35	5	–	M4	7	4	–	4	8	40	37.5
45	6	M3	M5	7	6	M3	6	10	56	43.5
55	8	M3	M5	7	6	M4	6	10	66	63.5
75	12	M4	M6	9	6	M5	8	11	90	87.5

Size	H3	H4	H5	H6	H7	H8	H13	H14	L7	
									2) ±1	3) ±1
35	4.2	13	–	10	–	2	4.2	17+0.09/-0.07	21	19
45	29	20.5	13	10	–	2	6.4	23±0.08	22	20
55	33.3	24.8	17.3	10	–	2	6.4	28.7±0.08	27	25
75	41.5	26.5	11.5	10	20	2	7.6	38.5±0.08	27	25

Size	L8	L9 ±1	L10	L11	L12 ±0.2	L13		L14	L15	L16 ±0.1
						2)	3)			
35	18	18.5	–	–	10.5	42	40	21	20	10
45	26	16	16.9	3.5	8	43	41	21	25	12.5
55	30	18.5	14.9	3.5	14	48	46	21	25	12.5
75	36	23.6	21.5	4.5	17	48	46	21	50	12.5

Size	L17	T1 ±0.1	T2	T3	T4	T5	T6	TG	VD	≈ 1
35	10	1.6	7.6	7.5	9	7.5	4.6	22	–	5
45	10	1.6	8.1	7.5	12.4	7.5	5.7	32.5	7	6
55	15	1.6	8.6	8.5	12.4	10	8.7	38	7	6
75	15	2.1	12.6	12	14.5	10	6.8	56.5	9	8

Size	Stroke [mm]	L1		L2		L3 –0.2	L4	L5 ±0.05	L6	
		2) ±1.5	3) ±1.5	2) ±1	3) ±1				2) ±1	3) ±1
35	50	182	180	163.5	161.5	124.5	–	60	83	81
45	100	248	246	232	230	184	75	125	114	112
	200	348	346	332	330	284	100	175	164	162
55	100	284.5	282.5	266	264	209	100	150	132	130
	200	384.5	382.5	366	364	309	100	175	182	180
	250	463.5	461.5	445	443	388	100	175	221	219
75	100	309.6	307.6	286	284	223	–	150	139	137
	200	409.6	407.6	386	384	323	100	250	189	187
	300	514.6	512.6	491	489	428	150	350	241	239

1) Tolerance for centring hole ±0.02 mm

Tolerance for thread ±0.1 mm

2) With rubber buffer

3) Without rubber buffer: for homing to the fixed stop

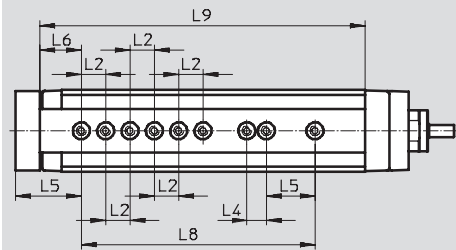
Mini slides EGSL, electric

Technical data

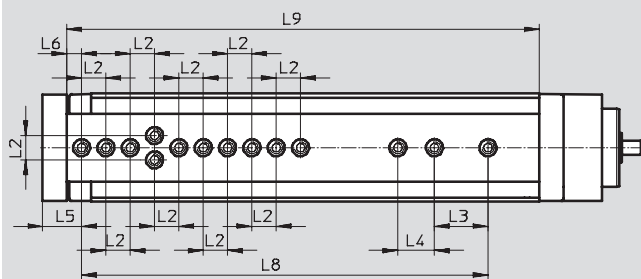
FESTO

Hole pattern for mounting threads and centring holes

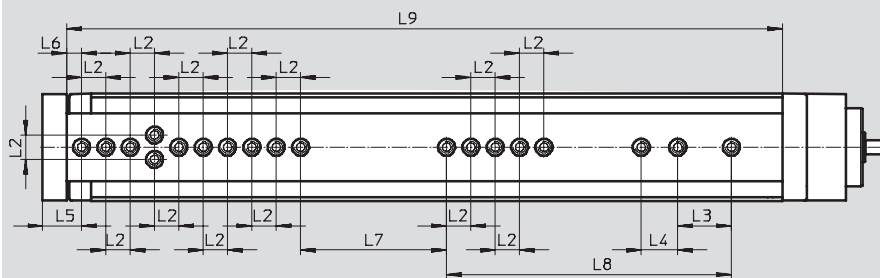
EGSL-35-50



EGSL-45-100



EGSL-45-200



Size	Stroke [mm]	L2 ¹⁾	L3 ¹⁾	L4 ¹⁾	L5	L6	L7 ¹⁾	L8 ¹⁾	L9
35	50	10	20	8	27	17	–	96	133.5
45	100	10	22	15	16	6	–	167	194
	200						60	117	294

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

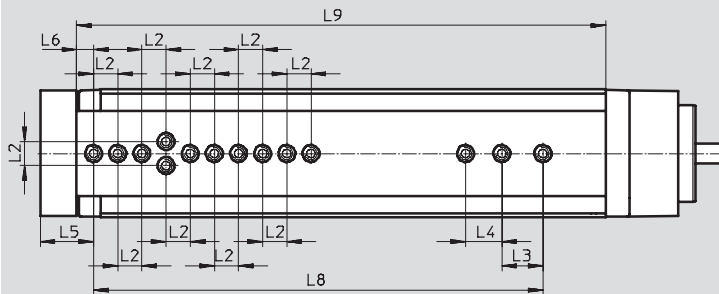
Mini slides EGSL, electric

Technical data

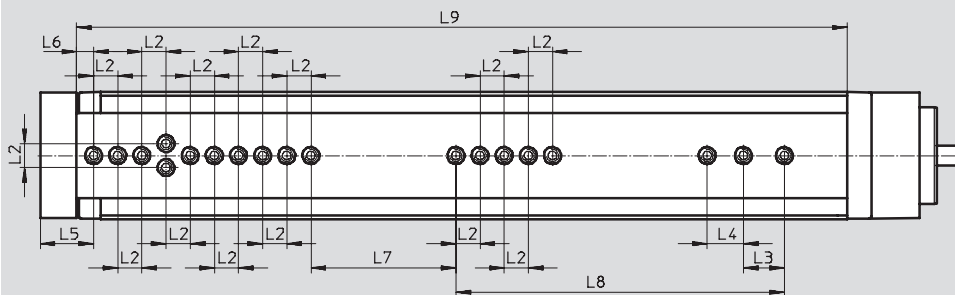
FESTO

Hole pattern for mounting threads and centring holes

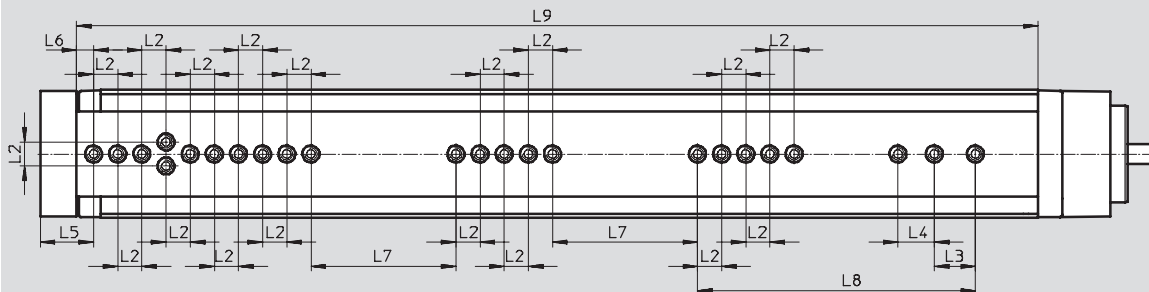
EGSL-55-100



EGSL-55-200



EGSL-55-250



Size	Stroke [mm]	L2 ¹⁾	L3 ¹⁾	L4 ¹⁾	L5	L6	L7 ¹⁾	L8 ¹⁾	L9
55	100	10	17	15	22	7	–	186	219
	200						60	136	319
	250						60	115	398

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

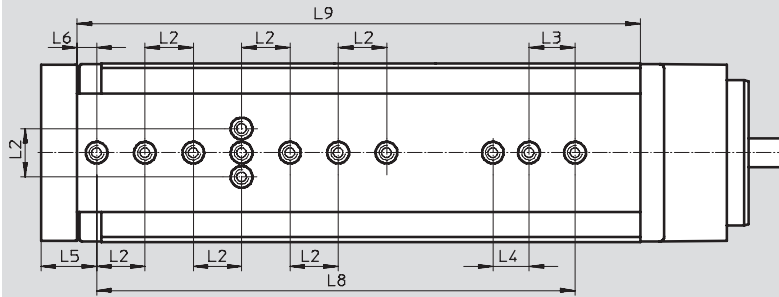
Mini slides EGSL, electric

Technical data

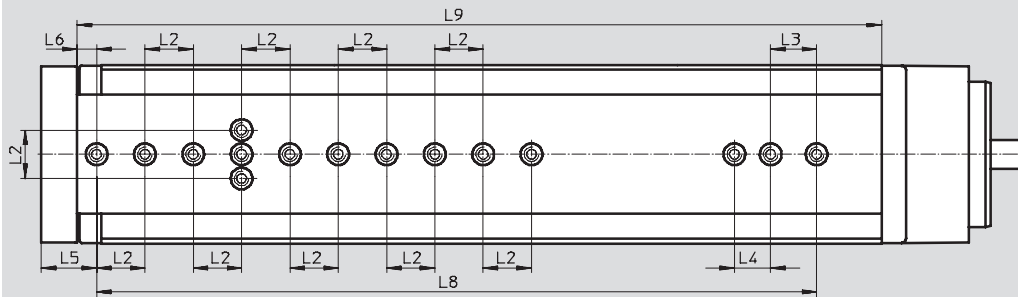
FESTO

Hole pattern for mounting threads and centring holes

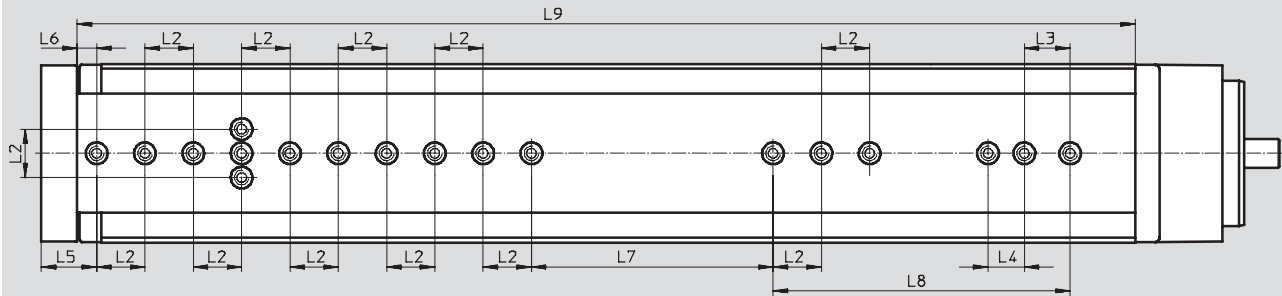
EGSL-75-100



EGSL-75-200



EGSL-75-300



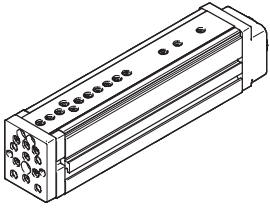
Size	Stroke [mm]	L2 ¹⁾	L3 ¹⁾	L4 ¹⁾	L5	L6	L7 ¹⁾	L8 ¹⁾	L9
75	100	20	19	15	23	8	–	198	233
	200						–	298	333
	300						100	123	438

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

Mini slides EGSL, electric

Technical data

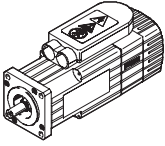
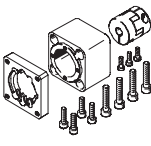
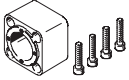
FESTO

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

Mini slides EGSL, electric

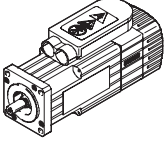
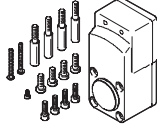
Accessories

FESTO

Permissible axis/motor combinations with axial kit				
Motor/motor unit	Axial kit	Axial kit comprising:		
		Motor flange	Coupling	Coupling housing
				
Type	Part No. Type	Part No. Type	Part No. Type	Part No. Type
EGSL-35				
With servo motor				
EMMS-AS-40-...	1199152 EAMM-A-D19-40A	1199144 EAMF-A-28D-40A	543419 EAMC-16-20-5-6	1087585 EAMK-A-D19-28D
With stepper motor				
EMMS-ST-42-...	1087642 EAMM-A-D19-42A	1087630 EAMF-A-28D-42A	562676 EAMC-16-20-5-5	1087585 EAMK-A-D19-28D
EGSL-45				
With servo motor				
EMMS-AS-40-...	543147 EAMM-A-D32-40A	552163 EAMF-A-28B-40A	543420 EAMC-16-20-6-6	552155 EAMK-A-D32-28B
EMMS-AS-55-...	550979 EAMM-A-D32-55A	529942 EAMF-A-44A/B-55A	551003 EAMC-30-32-6-9	551006 EAMK-A-D32-44A
With stepper motor				
EMMS-ST-42-...	543148 EAMM-A-D32-42A	552164 EAMF-A-28B-42A	543419 EAMC-16-20-5-6	552155 EAMK-A-D32-28B
EMMS-ST-57-...	550980 EAMM-A-D32-57A	530081 EAMF-A-44A/B-57A	551002 EAMC-30-32-6-6.35	551006 EAMK-A-D32-44A
EGSL-55				
With servo motor				
EMMS-AS-55-...	543153 EAMM-A-D40-55A	529942 EAMF-A-44A/B-55A	543423 EAMC-30-32-8-9	552157 EAMK-A-D40-44A
EMMS-AS-70-...	550981 EAMM-A-D40-70A	529943 EAMF-A-44A/B-70A	551004 EAMC-30-32-8-11	552157 EAMK-A-D40-44A
With stepper motor				
EMMS-ST-57-...	543154 EAMM-A-D40-57A	530081 EAMF-A-44A/B-57A	543421 EAMC-30-32-6.35-8	552157 EAMK-A-D40-44A
EMMS-ST-87-...	550982 EAMM-A-D40-87A	530082 EAMF-A-44A/B-87A	551004 EAMC-30-32-8-11	552157 EAMK-A-D40-44A
EGSL-75				
With servo motor				
EMMS-AS-70-...	543161 EAMM-A-D60-70A	529945 EAMF-A-64A/B-70A	543424 EAMC-42-50-11-12	552160 EAMK-A-D60-64B
EMMS-AS-100-...	550983 EAMM-A-D60-100A	529947 EAMF-A-64A/C-100A	551005 EAMC-42-50-12-19	551007 EAMK-A-D60-64C
With stepper motor				
EMMS-ST-87-...	543162 EAMM-A-D60-87A	530082 EAMF-A-44A/B-87A	543424 EAMC-42-50-11-12	552160 EAMK-A-D60-64B

Mini slides EGSL, electric

Accessories

Permissible axis/motor combinations with parallel kit		
Motor/motor unit	Parallel kit	
		
Type	Part No.	Type
EGSL-45		
With servo motor		
EMMS-AS-40-...	543150	EAMM-U-D32-40A
EGSL-55		
With servo motor		
EMMS-AS-55-...	543157	EAMM-U-D40-55A
EGSL-75		
With servo motor		
EMMS-AS-70-...	543165	EAMM-U-D60-70A

Mini slides EGSL, electric

Accessories

FESTO

Axial kit EAMM-A-...

Material:

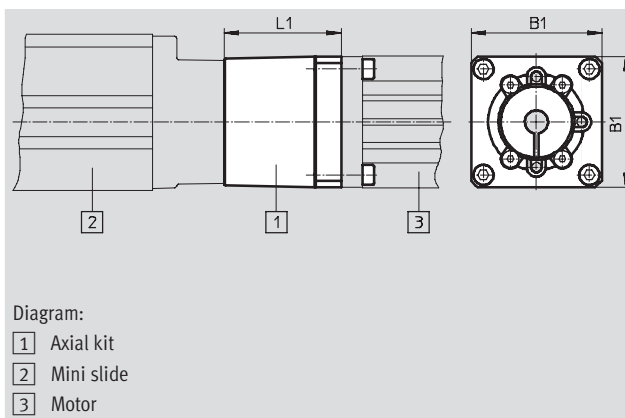
Coupling housing, coupling hubs,

motor flange: Aluminium

Screws: Galvanised steel

Clamping component:

Corrosion-resistant steel



General technical data							
EAMM-A-...	D19-		D32-				
	40A	42A	40A	42A	55A	57A	
Transferable torque	[Nm]	1.1	1.1	1.1	0.8	4	4
Mass moment of inertia	[kg mm ²]	0.28	0.28	0.3	0.3	5.87	5.87
Max. rotational speed	[rpm]	10,000		10,000		8,000	
Mounting position		Any					

EAMM-A-...	D40-				D60-		
	55A	57A	70A	87A	70A	87A	100A
Transferable torque [Nm]	8	6	8	8	12	12	14
Mass moment of inertia [kg mm ²]	5.87	5.87	5.87	5.87	35.5	35.5	35.5
Max. rotational speed [rpm]	8,000				6,000		
Mounting position	Any						

Operating and environmental conditions	
Ambient temperature [°C]	0 ... 50
Storage temperature [°C]	-25 ... +60
Protection class ¹⁾	IP40
Relative air humidity [%]	0 ... 95

1) Only with combined attachment of motor and axis

Dimensions and ordering data						
Type	B1	L1	Weight [g]	Part No.	Type	
EAMM-A-D19-40A	40	42.7	110	1199152	EAMM-A-D19-40A	
EAMM-A-D19-42A	42	50	130	1087642	EAMM-A-D19-42A	
EAMM-A-D32-40A	45	39.8	130	543147	EAMM-A-D32-40A	
EAMM-A-D32-42A	45	48	140	543148	EAMM-A-D32-42A	
EAMM-A-D32-55A	45	49.2	260	550979	EAMM-A-D32-55A	
EAMM-A-D32-57A	45	50.5	270	550980	EAMM-A-D32-57A	
EAMM-A-D40-55A	53.5	49.2	350	543153	EAMM-A-D40-55A	
EAMM-A-D40-57A	53.5	50.5	350	543154	EAMM-A-D40-57A	
EAMM-A-D40-70A	53.5	52	410	550981	EAMM-A-D40-70A	
EAMM-A-D40-87A	53.5	54	530	550982	EAMM-A-D40-87A	
EAMM-A-D60-70A	74	63.2	750	543161	EAMM-A-D60-70A	
EAMM-A-D60-87A	74	64.7	890	543162	EAMM-A-D60-87A	
EAMM-A-D60-100A	74	78.2	1,170	550983	EAMM-A-D60-100A	

Mini slides EGSL, electric

Accessories

Parallel kit EAMM-U-...

Material:

Housing: Die-cast aluminium

Clamping sleeve, toothed belt pulley:

Corrosion-resistant steel

Toothed belt: Polychloroprene

Screws: Galvanised steel

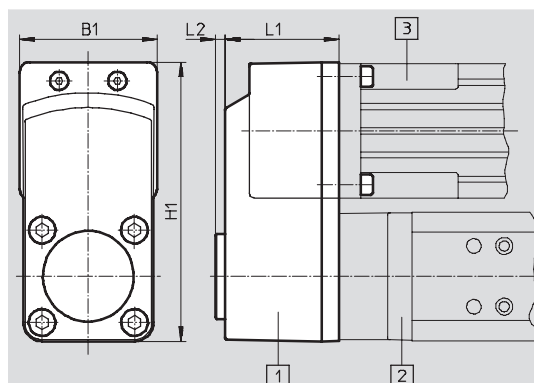


Diagram:

- 1 Parallel kit
- 2 Mini slide
- 3 Motor

General technical data				
EAMM-U-...		D32-40A	D40-55A	D60-70A
Transferable torque	[Nm]	1	3	5.5
No-load driving torque	[Nm]	0.05	0.1	0.3
Mass moment of inertia	[kgmm ²]	2.931	10.016	70.5
Max. rotational speed	[rpm]	3,000		
Mounting position		Any		

Operating and environmental conditions		
Ambient temperature	[°C]	0 ... 50
Storage temperature	[°C]	-25 ... +60
Protection class ¹⁾		IP40
Relative air humidity	[%]	0 ... 95

1) Only with combined attachment of motor and axis

Dimensions and ordering data							
Type	B1	H1	L1	L2	Weight [g]	Part No.	Type
EAMM-U-D32-40A	45.1	93.1	40	4	300	543150	EAMM-U-D32-40A
EAMM-U-D40-55A	56.5	115	47	4	530	543157	EAMM-U-D40-55A
EAMM-U-D60-70A	86	162.6	58	4	1,170	543165	EAMM-U-D60-70A

Note

The motor can only be mounted at the side and underneath.

Mini slides EGSL, electric

Accessories

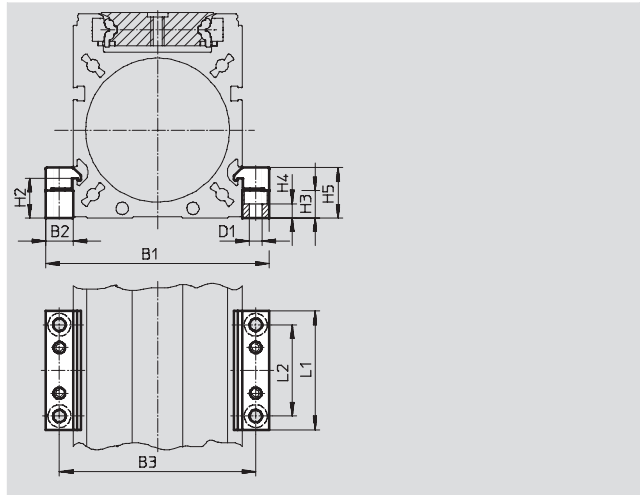
FESTO

Profile mounting

EAHF/MUE

Material:

Anodised aluminium



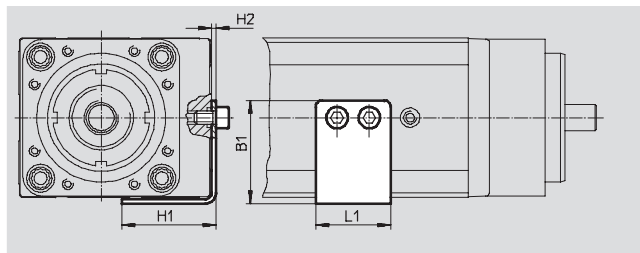
Dimensions and ordering data						
For size	B1	B2	B3	D1 Ø	H2	H3
35	49.5	8	41.5	3.4	10.5	10
45	68.5	12	56.5	5.5	12.5	8.3
55	77	12	65	5.5	17.5	12
75	98	12	86	5.5	17.5	12

For size	H4	H5	L1	L2	Weight [g]	Part No.	Type
35	6.8	15.5	40	20	20	1170211	EAHF-G1-35-P
45	2.5	17	52	40	23	1168859	EAHF-G1-45-P
55	6.2	22	52	40	80	558043	MUE-70/80
75	6.2	22	52	40	80	558043	MUE-70/80

Switching lug EAPM

Material:

Galvanised steel



Dimensions and ordering data						
For size	B1	H1	H2	L1	Weight [g]	Part No. Type
35	25.5	25	1.5	17	15	1235029 EAPM-G1-35-SLS
45	32	32.5	2	30	30	1235033 EAPM-G1-45-SLS
55	36	35	2	30	35	1235035 EAPM-G1-55-SLS
75	48	44	2	35	50	1235036 EAPM-G1-75-SLS

Note

The switching lug may only be attached to the designated threads (guide rail at the back).

Mini slides EGSL, electric

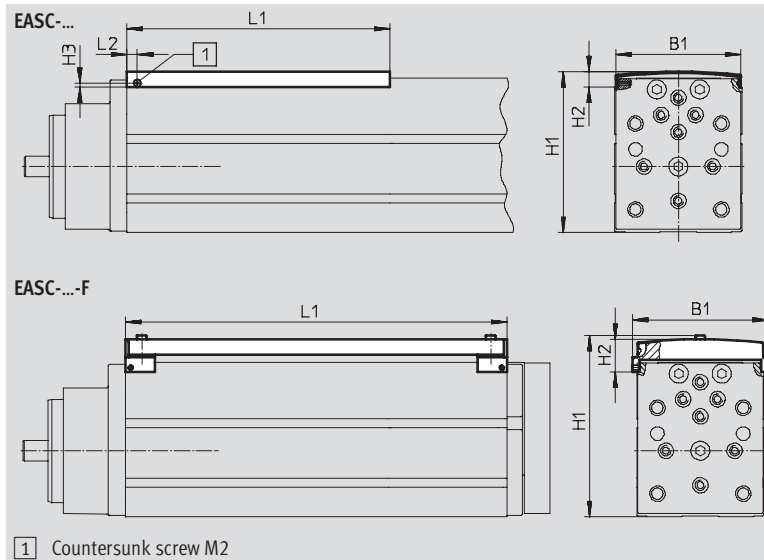
Accessories

Cover EASC

Material:

Anodised aluminium

Free of copper, PTFE and silicone



Dimensions and ordering data									
For size	Length [mm]	B1	H1	H2	H3	L1 −0.5	L2 −0.3	Part No.	Type
For use without switching lug									
35	50	32.5	43.2	8.5	2.3	58	6	570819	EASC-G1-35-50
	500 ¹⁾					570874		EASC-G1-35-500	
45	100	43.5	59.7	9	2.3	108	6	570822	EASC-G1-45-100
	200					208		570823	EASC-G1-45-200
	500 ¹⁾							570875	EASC-G1-45-500
55	100	52	69.7	9	2.3	108	6	570824	EASC-G1-55-100
	200					208		570825	EASC-G1-55-200
	250					258		570826	EASC-G1-55-250
	500 ¹⁾							570876	EASC-G1-55-500
75	100	73	93.7	9	2.3	108	6	570827	EASC-G1-75-100
	200					208		570828	EASC-G1-75-200
	300					308		570829	EASC-G1-75-300
	500 ¹⁾							570877	EASC-G1-75-500
For use with switching lug									
35	50	38.3	55	19.1	–	119.5	–	570830	EASC-G1-35-50-F
45	100	49.7	71.5	19.6		179		570833	EASC-G1-45-100-F
	200					279		570834	EASC-G1-45-200-F
55	100	58.2	81.5	19.6		204		570835	EASC-G1-55-100-F
	200					304		570836	EASC-G1-55-200-F
	250					383		570837	EASC-G1-55-250-F
75	100	78.9	105.5	19.4		218		570838	EASC-G1-75-100-F
	200					318		570839	EASC-G1-75-200-F
	300					423		570840	EASC-G1-75-300-F

Note

For covers with length 500 mm, the customer must make the mounting hole on the side.

1) The cover can be shortened by the customer as required.

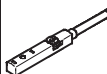
Mini slides EGSL, electric

Accessories

FESTO

Ordering data					
	For size	Brief description	Part No.	Type	PU ¹⁾
Centring sleeve ZBH					
	35, 45, 55	For slide and yoke plate	186717	ZBH-7	10
	75		150927	ZBH-9	
Connecting sleeve ZBV					
	45, 55	For connecting the mini slide EGSL with mini slide DGSL	548803	ZBV-M5-7	3
	75		548804	ZBV-M6-9	

1) Packaging unit

Ordering data – Proximity sensors for T-slot, inductive					Technical data ➔ Internet: sies	
	Type of mounting	Switching output	Electrical connection	Cable length [m]	Part No.	Type
N/O contact						
	Insertable in slot from above, flush with cylinder profile	PNP	Cable, 3-wire	7.5	551386	SIES-8M-PS-24V-K-7,5-OE
			Plug M8x1, 3-pin	0.3	551387	SIES-8M-PS-24V-K-0,3-M8D
		NPN	Cable, 3-wire	7.5	551396	SIES-8M-NS-24V-K-7,5-OE
			Plug M8x1, 3-pin	0.3	551397	SIES-8M-NS-24V-K-0,3-M8D
N/C contact						
	Insertable in slot from above, flush with cylinder profile	PNP	Cable, 3-wire	7.5	551391	SIES-8M-PO-24V-K-7,5-OE
			Plug M8x1, 3-pin	0.3	551392	SIES-8M-PO-24V-K-0,3-M8D
		NPN	Cable, 3-wire	7.5	551401	SIES-8M-NO-24V-K-7,5-OE
			Plug M8x1, 3-pin	0.3	551402	SIES-8M-NO-24V-K-0,3-M8D

Ordering data – Proximity sensors for T-slot, magneto-resistive					Technical data → Internet: smt	
	Type of mounting	Switching output	Electrical connection	Cable length [m]	Part No.	Type
N/O contact						
	Insertable in slot lengthwise, flush with cylinder profile	PNP	Cable, 3-wire	2.5	175 436	SMT-8-PS-K-LED-24-B
			Plug M8x1, 3-pin	0.3	175 484	SMT-8-PS-S-LED-24-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	541333	NEBU-M8G3-K-2.5-LE3
			5	541334	NEBU-M8G3-K-5-LE3
	Angled socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	541338	NEBU-M8W3-K-2.5-LE3
			5	541341	NEBU-M8W3-K-5-LE3

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