

Mini slides EGSL, electric

FESTO



Mini slides EGSL, electric

Key features

FESTO

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

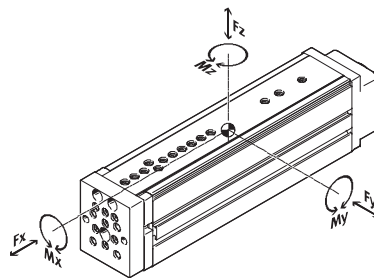
Parallel

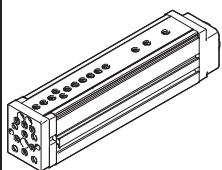


Characteristic values of the axes

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	512	512	6.2	6.0	6.0
	45	100, 200	1.0	25	±0.015	150	631	631	18.6	16.3	16.3
	55	100, 200, 250	1.0	25	±0.015	300	1,047	1,047	33.1	33.3	33.3
	75	100, 200, 300	1.3	25	±0.015	450	1,539	1,539	67.4	47.1	47.1

Note

PositioningDrives
sizing software
www.festo.com

Mini slides EGSL, electric

Key features

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

Mini slide



Motor

→ 22



- 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



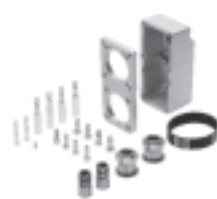
- 1 Servo motor controller CMMP-AS, CMMS-AS
- 2 Stepper motor controller EMMS-ST

Motor mounting kit

→ 22

Axial kit

Parallel kit



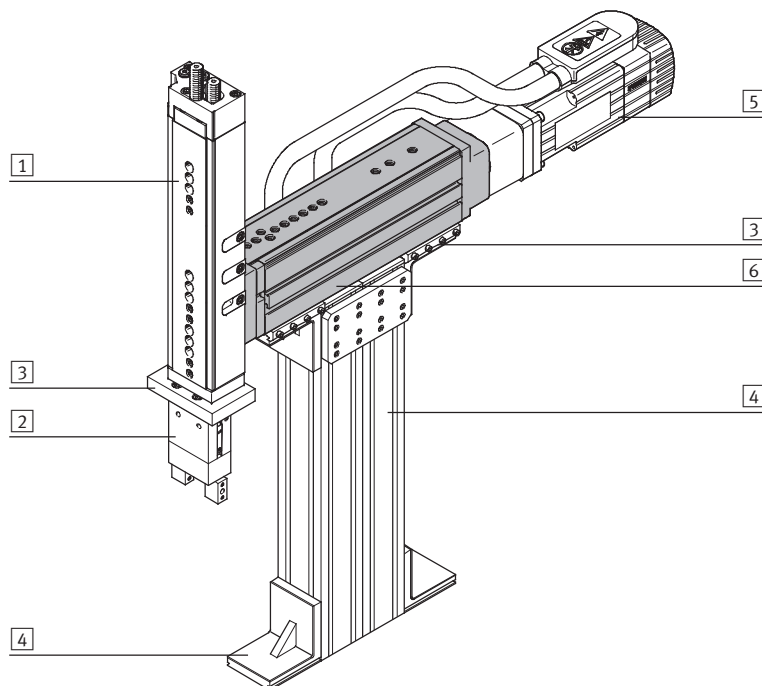
There are complete kits for both parallel and axial motor mounting.

Mini slides EGSL, electric

Key features and type codes

FESTO

System product for handling and assembly technology



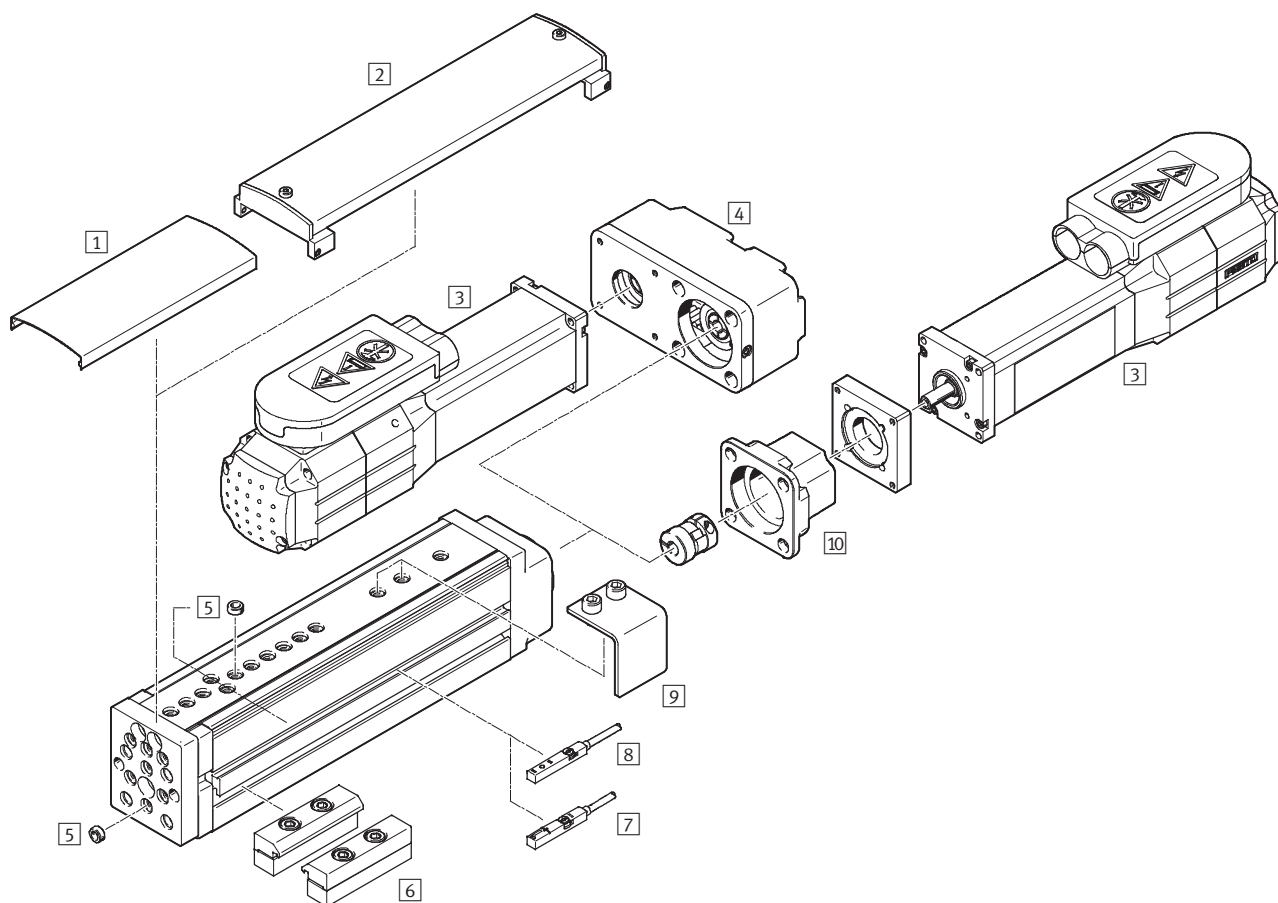
System components and accessories		
	Brief description	→ Page/Internet
1 Drives	Wide range of combinations possible within handling and assembly technology	drive
2 Grippers	Wide range of variations possible within handling and assembly technology	gripper
3 Adapters	For drive/drive and drive/gripper connections	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]										

Mini slides EGSL, electric

Peripherals overview



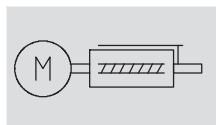
Variants and accessories		
Type	Brief description	→ Page/Internet
1 Cover EASC-...	- For protection, so that no foreign parts can get into the guide - The cover can be shortened by the customer as required	26
2 Cover EASC-...-F	- This cover must be used in combination with the switching lug EAPM - For protection, so that no foreign parts can get into the guide	26
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	27
6 Profile mounting EAHF, MUE	For mounting the axis	25
7 Proximity sensor SIES	Inductive proximity sensor, for slot type 8	27
8 Proximity sensor SMT-8-...-B	Magnetic proximity sensor, for slot type 8	27
9 Switching lug EAPM	For sensing the slide position via proximity sensors SIES	25
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	27

Mini slides EGSL, electric

Technical data

FESTO

Function



Note

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



- N- Size
35, 45, 55, 75
- T- 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				
Max. permissible applied load, horizontal [kg]	2	6	10	14				
Max. permissible applied load, vertical [kg]	2	6	10	14				
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 [Nm]	0.015	0.055	0.050	0.100	0.135	0.265	0.165	
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			

Mini slides EGSL, electric

Technical data

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
Dead weight of guide rail and yoke plate	0.13	0.4	0.58

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
Dead weight of guide rail and yoke plate	0.61	0.87	1.07	1.2	1.64	2.07

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

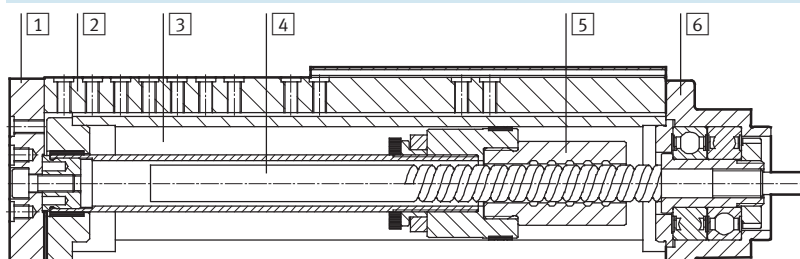
Size	55						75					
Spindle pitch [mm]	5			12.7			10			20		
Stroke [mm]	100	200	250	100	200	250	100	200	300	100	200	300
J_0 [kg mm ²]	13.52	14.77	15.74	18.27	21.13	23.27	86.95	96.49	106.67	105.12	119.45	134.59
J_L per kg effective load [kg mm ² /kg]	0.63	0.63	0.63	4.09	4.09	4.09	2.53	2.53	2.53	10.13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

The mass moment of inertia J_A of the entire axis is calculated as follows:
 $J_A = J_0 + J_L \times m_{\text{effective load}}$ [kg]

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

Materials

Sectional view



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

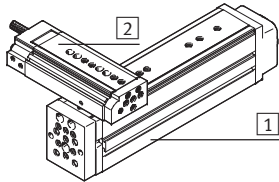
Mini slides EGSL, electric

Technical data

FESTO

Possible combinations

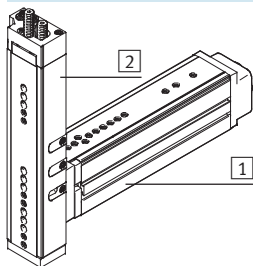
Via guide



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
→ 27.

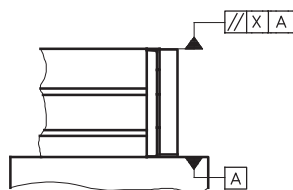
Mini slides EGSL, electric

Technical data

Parallelism [mm]

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

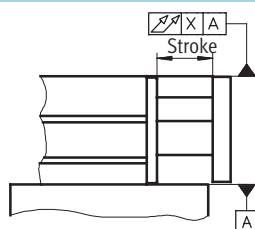
Specifications apply in retracted state.



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

Mini slides EGSL, electric

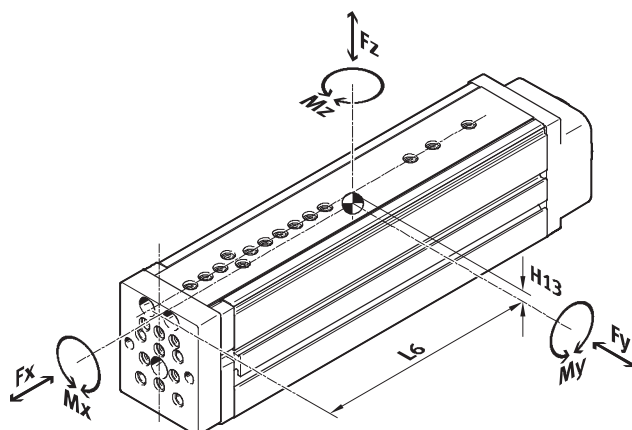
Technical data

FESTO

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:

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

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	512	512	6.2	6.0	4.2	106
45							
	100	631	631	18.6	16.3	6.4	162
	200	291	291	14.3	12.3	6.4	262
55							
	100	1,047	1,047	33.1	31.0	6.4	180
	200	490	490	24.2	22.6	6.4	280
	250	563	563	27.0	33.3	6.4	344
75							
	100	1,539	1,539	67.4	47.1	7.6	187
	200	714	714	48.5	33.8	7.6	287
	300	555	555	46.4	36.5	7.6	389

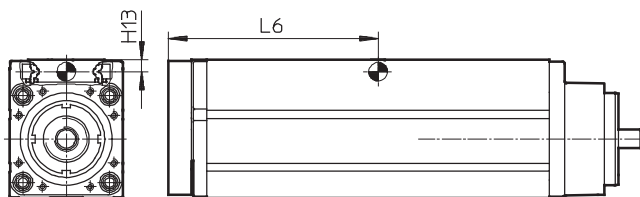
Note

PositioningDrives
sizing software
www.festo.com

Mini slides EGSL, electric

Technical data

Position of the guide centre



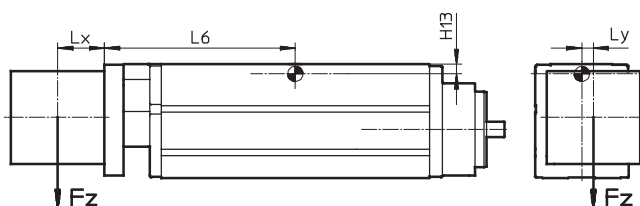
Calculation example

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
- Verification of operation with combined load
- Service life estimate



Solution:

$$L6 = 0.162 \text{ m from table}$$

$$F_y = 0 \text{ N}$$

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

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

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

$$M_z = 0 \text{ Nm}$$

Combined load:

$$\frac{|F_y|}{F_{y_{\max.}}} + \frac{|F_z|}{F_{z_{\max.}}} + \frac{|M_x|}{M_{x_{\max.}}} + \frac{|M_y|}{M_{y_{\max.}}} + \frac{|M_z|}{M_{z_{\max.}}} \\ = 0 + \frac{49.05 \text{ N}}{631 \text{ N}} + \frac{0.49 \text{ Nm}}{18.6 \text{ Nm}} + \frac{9.42 \text{ Nm}}{16.3 \text{ Nm}} + 0 = 0.68$$

The diagram on page 12 shows a service life of approx. 30 million cycles when $f_v = 0.68$.

Mini slides EGSL, electric

Technical data

FESTO

Calculating service life

The service life of the guide depends on the load. To provide a rough indication of the service life of the guide, the graph below plots the load comparison factor f_v against the service life.

The spindle module even exceeds the guide's high load capacity and service life. The load characteristics of the spindle therefore need not be considered for the service life calculation.

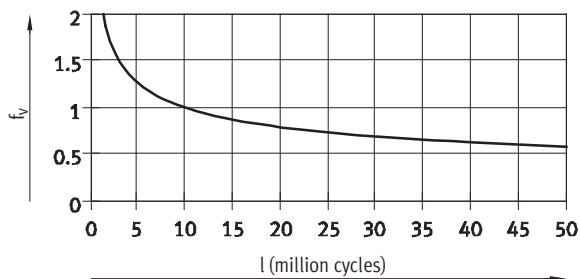
These values are only theoretical. Consultation with your local contact person at Festo is mandatory for load comparison factors f_v greater than 1.5.

Load comparison factor f_v as a function of service life

Example:

A user wants to move an X kg load. Using the formula $\rightarrow 10$ gives a value of 1.5 for the load comparison factor f_v . According to the graph, the guide would have a service life of

approx. 3 million 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 10 million cycles.

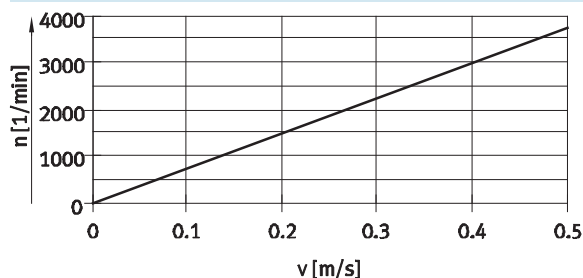


Mini slides EGSL, electric

Technical data

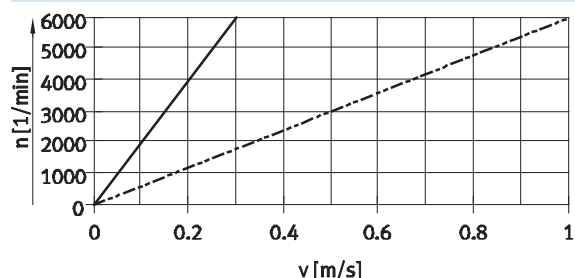
Rotational speed n as a function of feed speed v

EGSL-35



— EGSL-BS-35- ... -8P

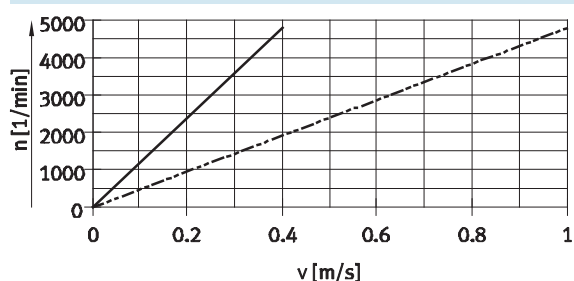
EGSL-45



— EGSL-BS-45- ... -3P

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

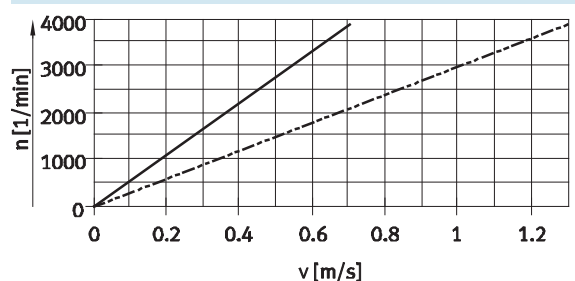
EGSL-55



— EGSL-BS-55- ... -5P

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

EGSL-75

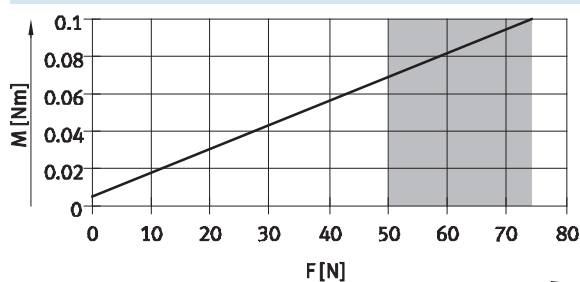


— EGSL-BS-75- ... -10P

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

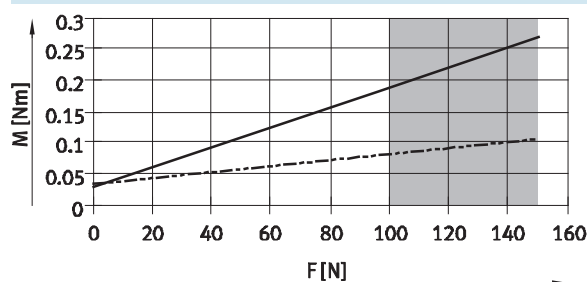
Driving torque M as a function of feed force F

EGSL-35



— EGSL-BS-35- ... -8P

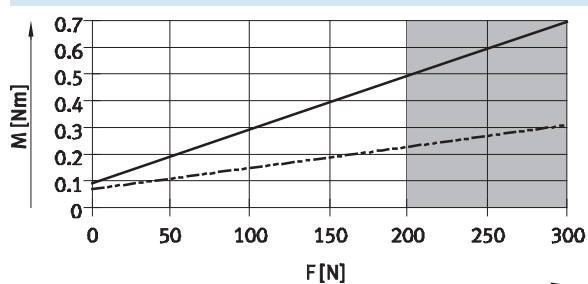
EGSL-45



— EGSL-BS-45- ... -10P

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

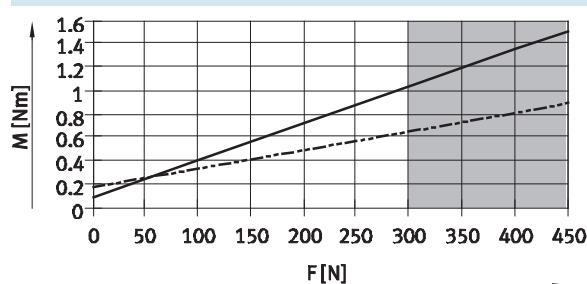
EGSL-55



— EGSL-BS-55- ... -12.7P

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

EGSL-75



— EGSL-BS-75- ... -20P

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

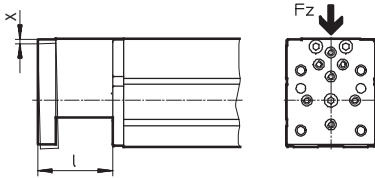
 This range should be used only briefly.

Mini slides EGSL, electric

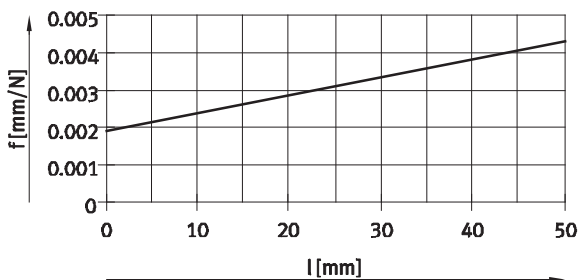
Technical data

FESTO

Deflection x as a function of force F_z and stroke l

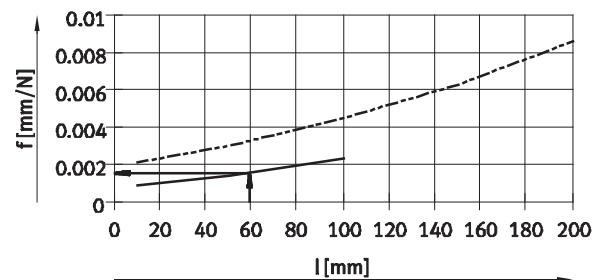


EGSL-35



EGSL-BS-35-50

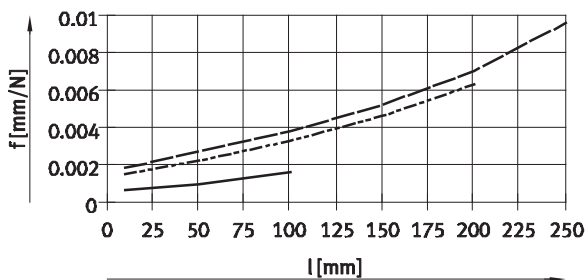
EGSL-45



EGSL-BS-45-100

EGSL-BS-45-200

EGSL-55

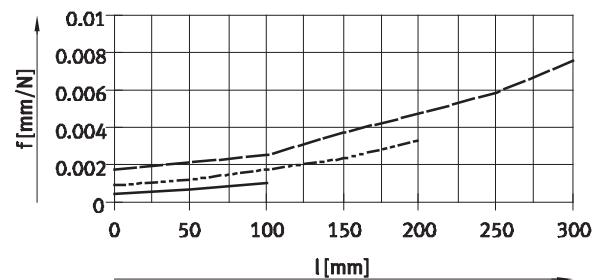


EGSL-BS-55-100

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.

$$x = f \times F_z$$

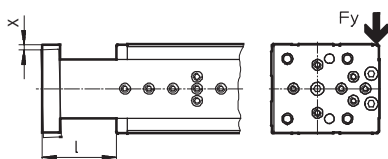
$$x = 0.0015 \text{ mm/N} \times 30 \text{ N}$$

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

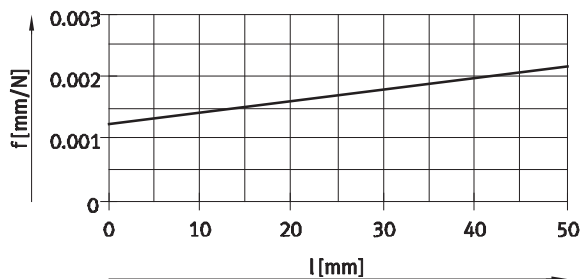
Mini slides EGSL, electric

Technical data

Deflection x as a function of force F_y and stroke l

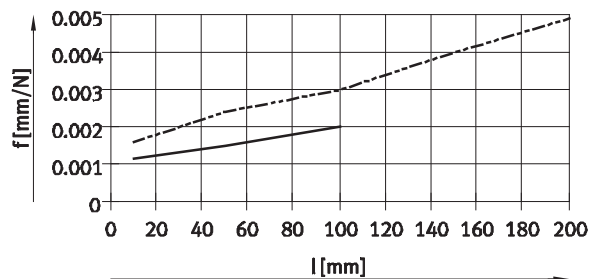


EGSL-35



EGSL-BS-35-50

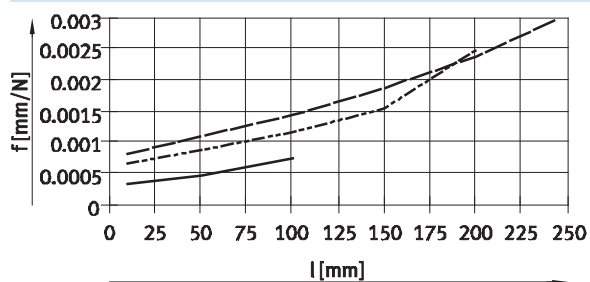
EGSL-45



EGSL-BS-45-100

EGSL-BS-45-200

EGSL-55

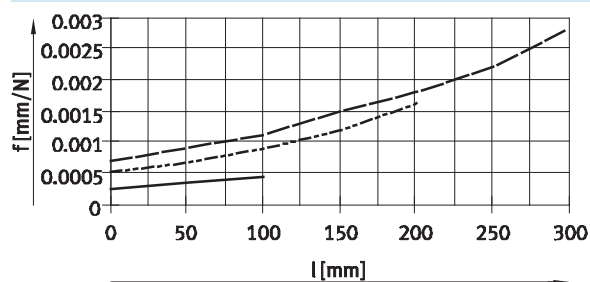


EGSL-BS-55-100

EGSL-BS-55-200

EGSL-BS-55-250

EGSL-75



EGSL-BS-75-100

EGSL-BS-75-200

EGSL-BS-75-300

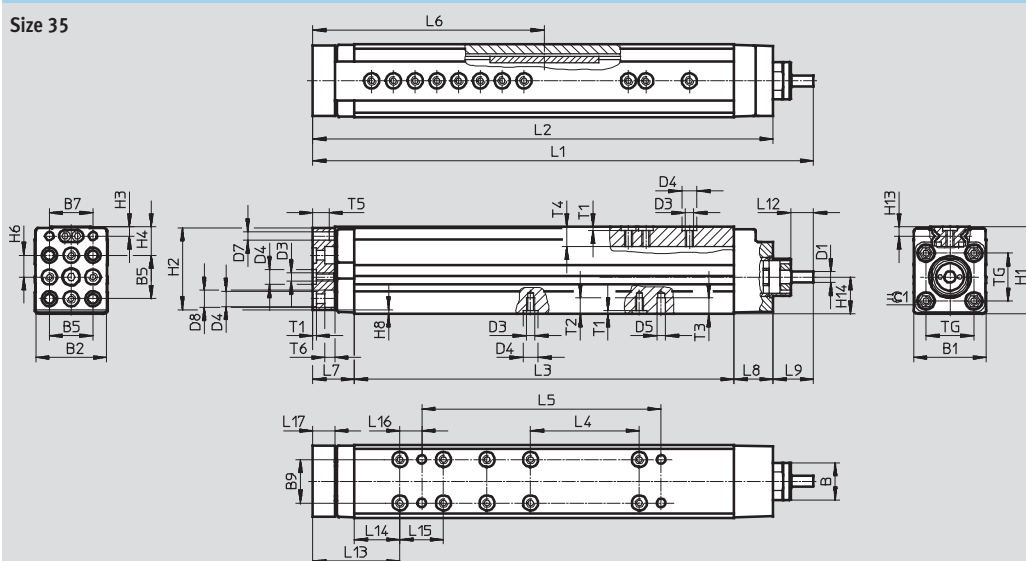
Mini slides EGSL, electric

Technical data

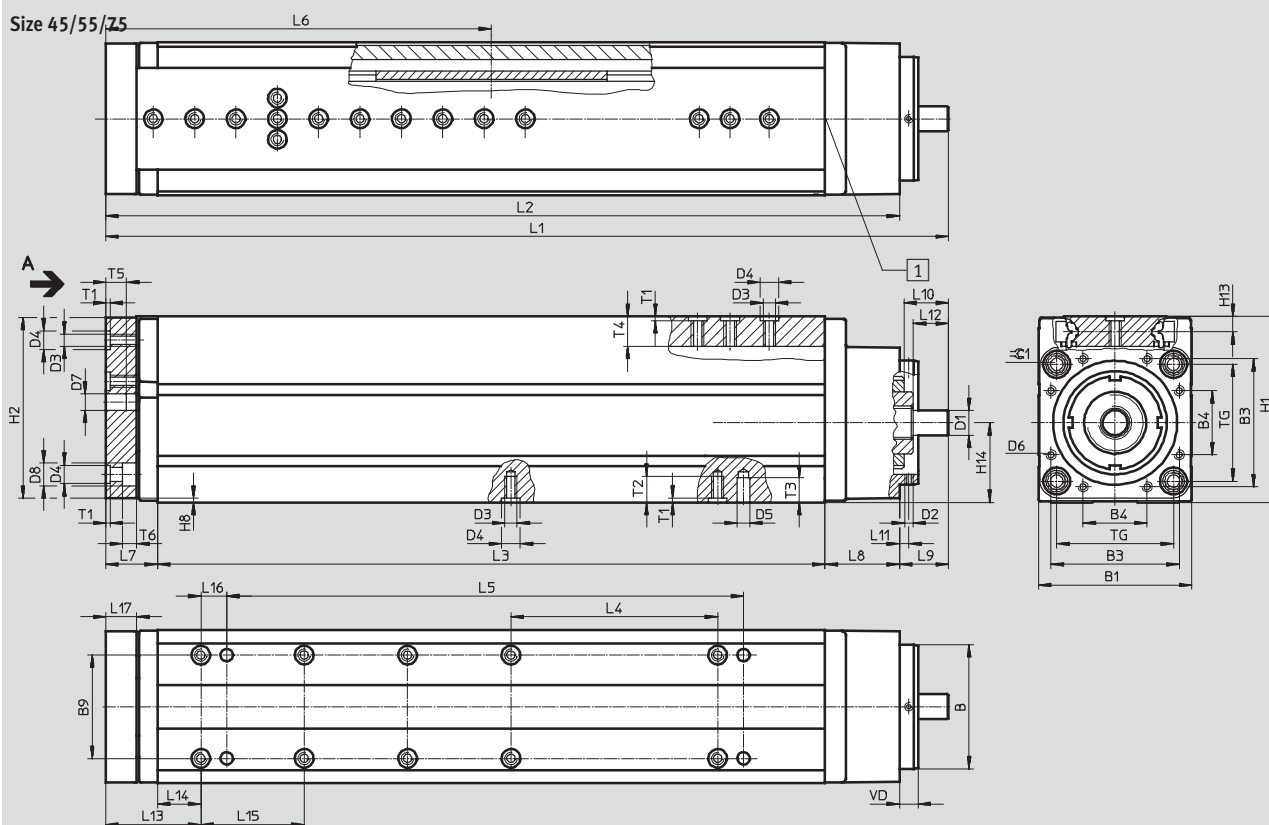
Dimensions

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

Size 35

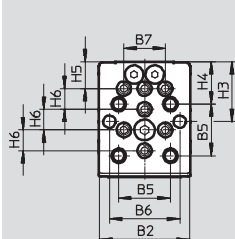


Size 45/55/75

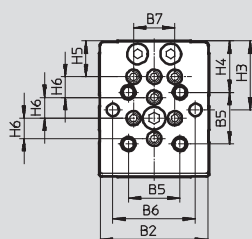


View A

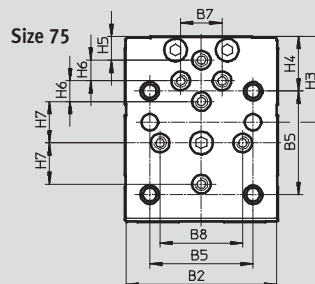
Size 45



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

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 ¹⁾	L15 ¹⁾	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 ¹⁾	L5 ¹⁾ ±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

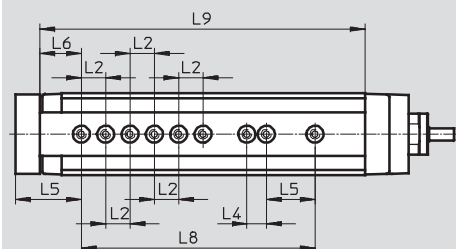
Mini slides EGSL, electric

Technical data

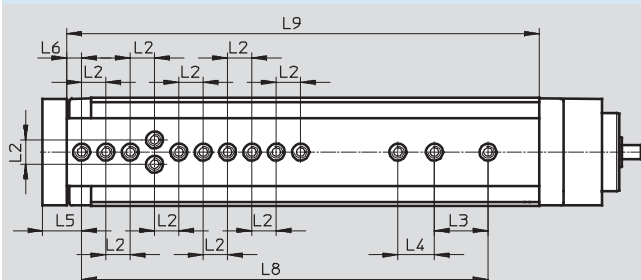
FESTO

Hole pattern for mounting threads and centring holes

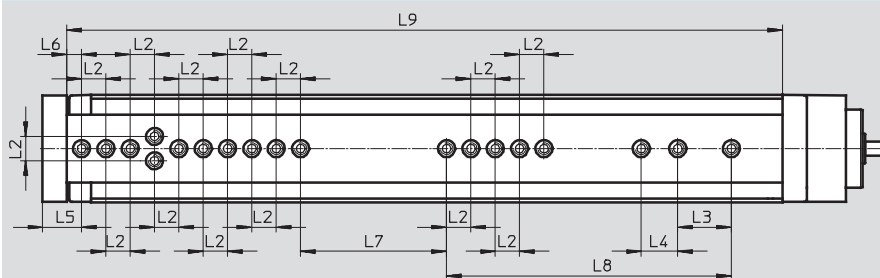
EGSL-35-50



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

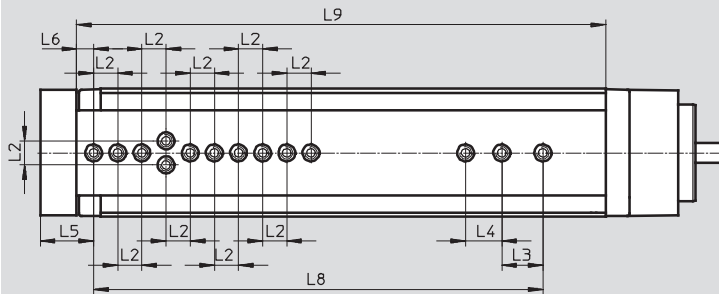
Mini slides EGSL, electric

Technical data

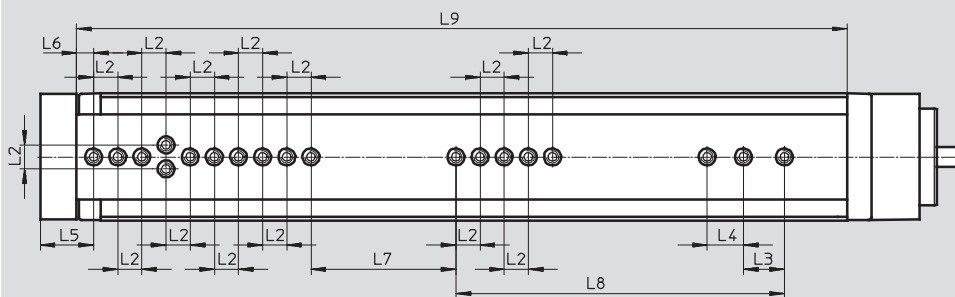
FESTO

Hole pattern for mounting threads and centring holes

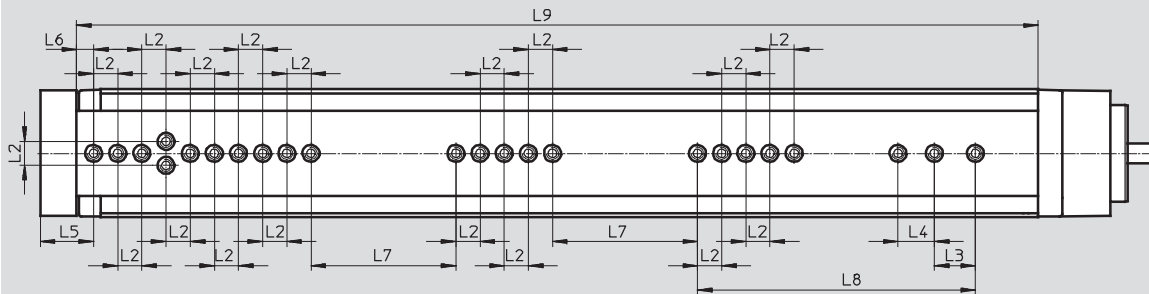
EGSL-55-100



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

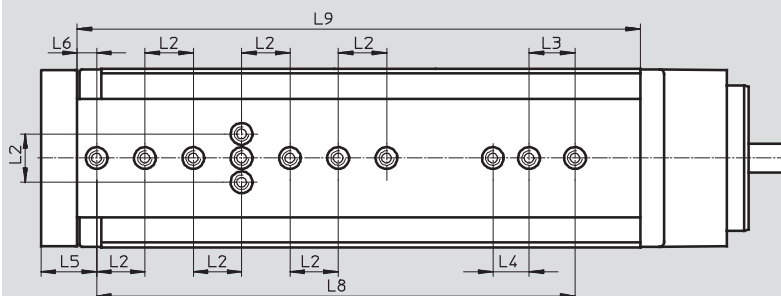
Mini slides EGSL, electric

Technical data

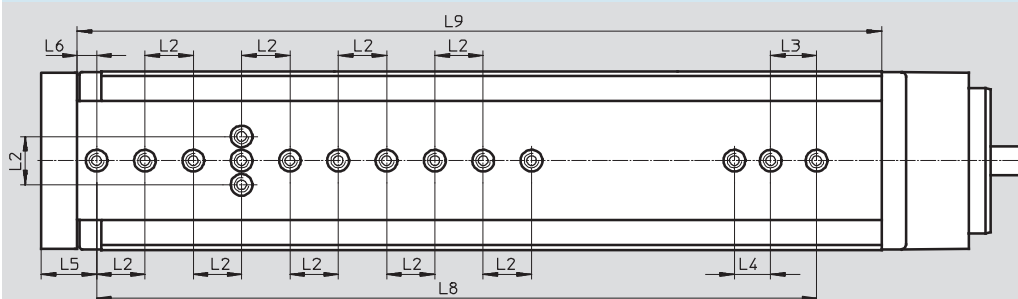
FESTO

Hole pattern for mounting threads and centring holes

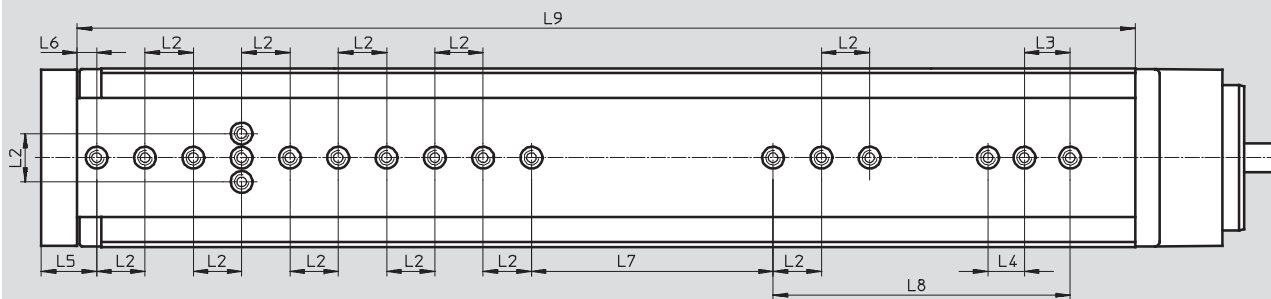
EGSL-75-100



EGSL-75-200



EGSL-75-300

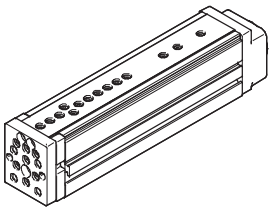


Size	Stroke [mm]	L2 ¹⁾	L3 ¹⁾	L4 ¹⁾	L5	L6	L7 ¹⁾	L8 ¹⁾	L9
75	100	20	19	15	23	8	–	198	233
	200						–	298	333
	300						100	123	438

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

Mini slides EGSL, electric

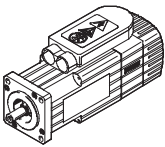
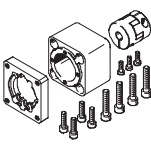
Technical data

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

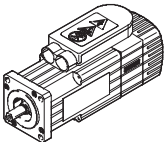
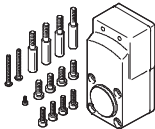
Accessories

FESTO

Permissible axis/motor combinations with axial kit				Technical data → Internet: eamm-a
Motor/motor unit	Axial kit	Axial kit consisting of:		
		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		Technical data → Internet: eamm-u
Motor/motor unit	Parallel kit	
	 Space-saving gravity die-cast housing	
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

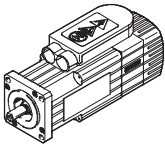
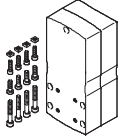
Note

The motor can only be mounted on the side and underneath when using these kits.

Mini slides EGSL, electric

Accessories

FESTO

Permissible axis/motor combinations with parallel kit		Technical data → Internet: eamm-u
Motor/motor unit	Parallel kit	
		• Increased housing rigidity • More flexible motor connection possible • Optionally with protection to IP65 • Use in combination with third-party motors on request
Type	Part No.	Type
EGSL-45		
With servo motor		
EMMS-AS-40-...	1201591	EAMM-U-50-D32-40A-78
	1202302	EAMM-U-50-D32-40A-78-S1 ¹⁾
EMMS-AS-55-...	1210126	EAMM-U-60-D32-55A-91
	1210450	EAMM-U-60-D32-55A-91-S1 ¹⁾
With stepper motor		
EMMS-ST-42-...	1201607	EAMM-U-50-D32-42A-78
	1202312	EAMM-U-50-D32-42A-78-S1 ¹⁾
EMMS-ST-57-...	1210419	EAMM-U-60-D32-57A-91
	1210453	EAMM-U-60-D32-57A-91-S1 ¹⁾
EGSL-55		
With servo motor		
EMMS-AS-55-...	1210438	EAMM-U-60-D40-55A-91
	1210458	EAMM-U-60-D40-55A-91-S1 ¹⁾
EMMS-AS-70-...	1212826	EAMM-U-86-D40-70A-102
	1212854	EAMM-U-86-D40-70A-102-S1 ¹⁾
With stepper motor		
EMMS-ST-57-...	1210442	EAMM-U-60-D40-57A-91
	1210462	EAMM-U-60-D40-57A-91-S1 ¹⁾
EMMS-ST-87-...	1215802	EAMM-U-86-D40-87A-102
	1215814	EAMM-U-86-D40-87A-102-S1 ¹⁾
EGSL-75		
With servo motor		
EMMS-AS-70-...	1212477	EAMM-U-86-D60-70A-102
	1212835	EAMM-U-86-D60-70A-102-S1 ¹⁾
EMMS-AS-100-...	1202436	EAMM-U-110-D60-100A-120
	1203112	EAMM-U-110-D60-100A-120-S1 ¹⁾
With stepper motor		
EMMS-ST-87-...	1215784	EAMM-U-86-D60-87A-102
	1215810	EAMM-U-86-D60-87A-102-S1 ¹⁾

1) With protection class IP65

Mini slides EGSL, electric

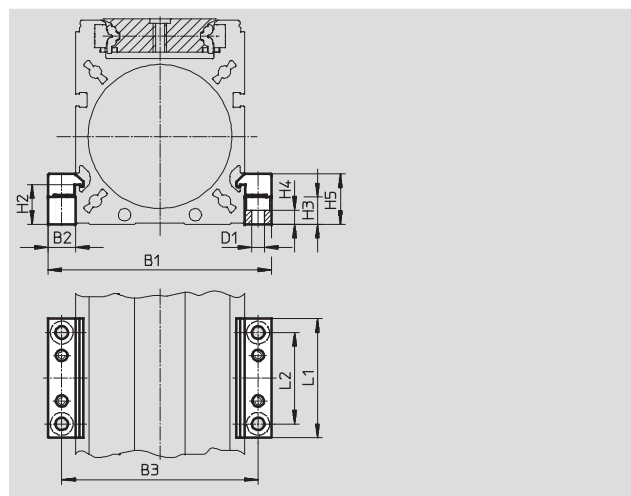
Accessories

Profile mounting

EAHF/MUE

Material:

Anodised aluminium



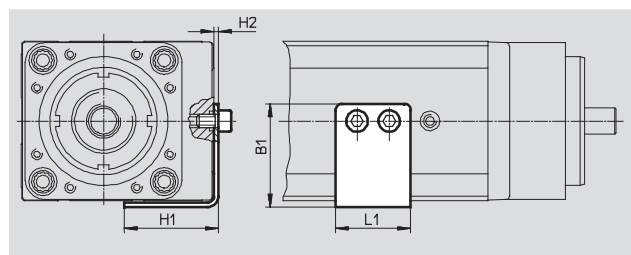
Dimensions and ordering data						
For size	B1	B2	B3	D1 Ø	H2	H3
35	49.5	8	41.5	3.4	10.5	10
45	68.5	12	56.5	5.5	12.5	8.3
55	77	12	65	5.5	17.5	12
75	98	12	86	5.5	17.5	12

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

Switch 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 switch lug should only be attached to the designated threads (guide rail at the back).

Mini slides EGSL, electric

Accessories

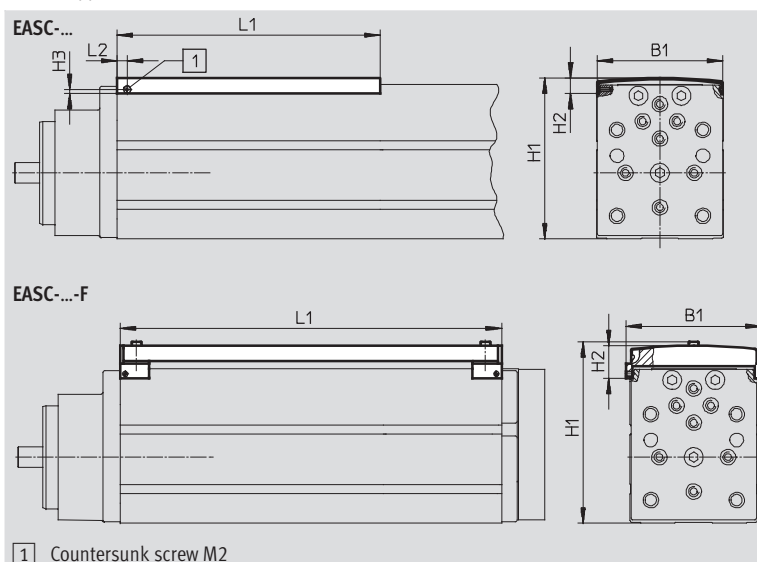
FESTO

Cover EASC

Material:

Anodised aluminium

Free of copper, PTFE and silicone



Dimensions and ordering data

Dimensions and ordering data									
For size	Length [mm]	B1	H1	H2	H3	L1 -0.5	L2 -0.3	Part No.	Type
For use without switch lug									
35	50	32.5	43.2	8.5	2.3	58	6	570819	EASC-G1-35-50
	500 ¹⁾					500		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⁾					500		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⁾					500		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⁾					500		570877	EASC-G1-75-500
For use with switch 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 a length of 500 mm, the customer must bore the mounting hole on the side.

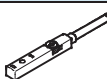
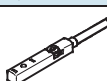
1) The cover can be shortened by the customer as required.

Mini slides EGSL, electric

Accessories

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 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 the slot from above, flush with the cylinder profile	PNP	Cable, 3-wire	7.5	551386	SIES-8M-PS-24V-K-7,5-OE
			Plug 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 the slot from above, flush with the cylinder profile	PNP	Cable, 3-wire	7.5	551391	SIES-8M-PO-24V-K-7,5-OE
			Plug 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 the slot lengthwise, flush with the 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

Product Range and Company Overview

A Complete Suite of Automation Services

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



Custom Automation Components
Complete custom engineered solutions



Custom Control Cabinets
Comprehensive engineering support and on-site services



Complete Systems
Shipment, stocking and storage services

The Broadest Range of Automation Components

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



Electromechanical
Electromechanical actuators, motors, controllers & drives



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



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

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

Festo is a leading global manufacturer of pneumatic and electromechanical systems, components and controls for industrial automation, with more than 12,000 employees in 56 national headquarters serving more than 180 countries. For more than 80 years, Festo has continuously elevated the state of manufacturing with innovations and optimized motion control solutions that deliver higher performing, more profitable automated manufacturing and processing equipment. Our dedication to the advancement of automation extends beyond technology to the education and development of current and future automation and robotics designers with simulation tools, teaching programs, and on-site services.

Quality Assurance, ISO 9001 and ISO 14001 Certifications

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

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



© Copyright 2008, Festo Corporation. While every effort is made to ensure that all dimensions and specifications are correct, Festo cannot guarantee that publications are completely free of any error, in particular typing or printing errors. Accordingly, Festo cannot be held responsible for the same. For Liability and Warranty conditions, refer to our "Terms and Conditions of Sale", available from your local Festo office. All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, electronic, mechanical, photocopying or otherwise, without the prior written permission of Festo. All technical data subject to change according to technical update.



Printed on recycled paper at New Horizon Graphic, Inc., FSC certified as an environmentally friendly printing plant.

Festo North America

Festo Regional Contact Center

5300 Explorer Drive
Mississauga, Ontario L4W 5G4
Canada

USA Customers:

For ordering assistance,

Call: 1.800.99.FESTO (1.800.993.3786)

Fax: 1.800.96.FESTO (1.800.963.3786)

Email: customer.service@us.festo.com

For technical support,

Call: 1.866.GO.FESTO (1.866.463.3786)

Fax: 1.800.96.FESTO (1.800.963.3786)

Email: product.support@us.festo.com

Canadian Customers:

Call: 1.877.GO.FESTO (1.877.463.3786)

Fax: 1.877.FX.FESTO (1.877.393.3786)

Email: festo.canada@ca.festo.com

USA Headquarters

Festo Corporation
395 Moreland Road
P.O. Box 18023
Hauppauge, NY 11788, USA
www.festo.com/us

USA Sales Offices

Appleton

North 922 Tower View Drive, Suite N
Greenville, WI 54942, USA

Boston

120 Presidential Way, Suite 330
Woburn, MA 01801, USA

Chicago

1441 East Business Center Drive
Mt. Prospect, IL 60056, USA

Dallas

1825 Lakeway Drive, Suite 600
Lewisville, TX 75057, USA

Detroit – Automotive Engineering Center

2601 Cambridge Court, Suite 320
Auburn Hills, MI 48326, USA

New York

395 Moreland Road
Hauppauge, NY 11788, USA

Silicon Valley

4935 Southfront Road, Suite F
Livermore, CA 94550, USA

United States



USA Headquarters, East: Festo Corp., 395 Moreland Road, Hauppauge, NY 11788
Phone: 1.631.435.0800; Fax: 1.631.435.8026;
Email: info@festo-usa.com www.festo.com/us

Canada



Headquarters: Festo Inc., 5300 Explorer Drive, Mississauga, Ontario L4W 5G4
Phone: 1.905.624.9000; Fax: 1.905.624.9001;
Email: festo.canada@ca.festo.com www.festo.ca

Mexico



Headquarters: Festo Pneumatic, S.A., Av. Ceylán 3, Col. Tequesquahuac,
54020 Tlalneapantla, Edo. de México
Phone: 011 52 [55] 53 21 66 00; Fax: 011 52 [55] 53 21 66 65;
Email: festo.mexico@mx.festo.com www.festo.com/mx

Central USA

Festo Corporation
1441 East Business
Center Drive
Mt. Prospect, IL 60056, USA
Phone: 1.847.759.2600
Fax: 1.847.768.9480



Western USA

Festo Corporation
4935 Southfront Road,
Suite F
Livermore, CA 94550, USA
Phone: 1.925.371.1099
Fax: 1.925.245.1286



Festo Worldwide

Argentina Australia Austria Belarus Belgium Brazil Bulgaria Canada Chile China Colombia Croatia Czech Republic Denmark
Estonia Finland France Germany Great Britain Greece Hong Kong Hungary India Indonesia Iran Ireland Israel Italy Japan Latvia
Lithuania Malaysia Mexico Netherlands New Zealand Norway Peru Philippines Poland Romania Russia Serbia Singapore
Slovakia Slovenia South Africa South Korea Spain Sweden Switzerland Taiwan Thailand Turkey Ukraine United States Venezuela

www.festo.com