

Passive guide axes EGC-FA, without drive

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Passive guide axes EGC-FA, without drive

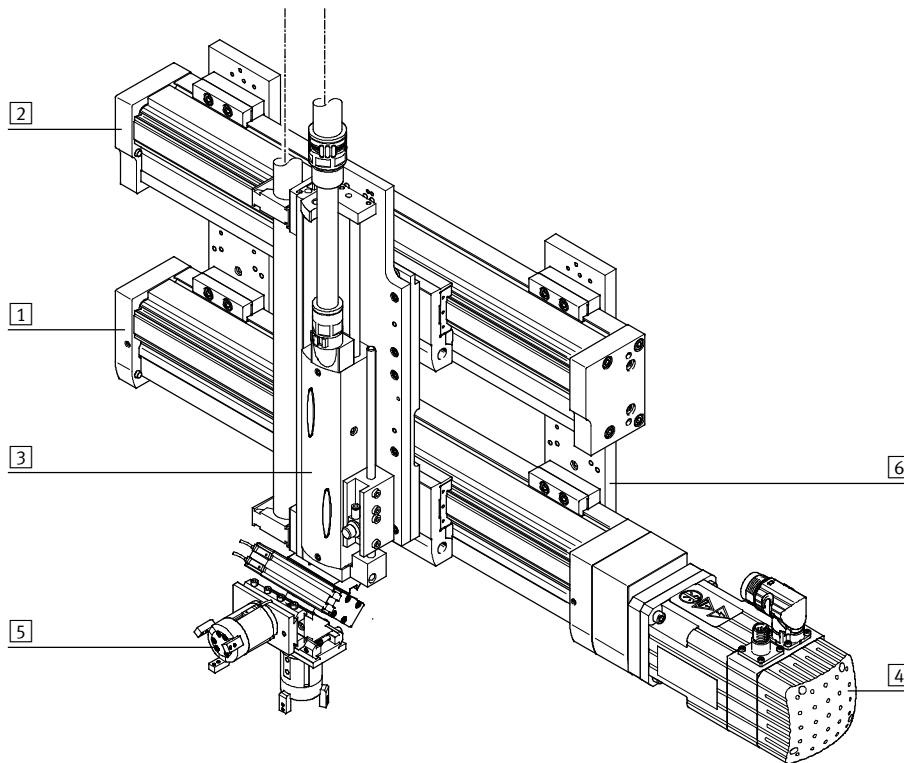
Key features

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At a glance

- Driveless linear guide units with guide and freely movable slide
- The passive guide axis is designed to support force and torque capacity in multi-axis applications
- Higher torsional resistance
- Reduced vibrations with dynamic loads
- Drive axis and passive guide axis can be placed adjacent to or above one another

System product for handling and assembly technology



System components and accessories

	Brief description	→ Page/Internet
1 Axes	Wide range of combinations possible within handling and assembly technology	axis
2 Passive guide axes	For supporting force and torque capacity in multi-axis applications	passive guide axis
3 Drives	Wide range of combinations possible within handling and assembly technology	drive
4 Motors	Servo and stepper motors, with or without gear unit	motor
5 Grippers	Wide range of variations possible within handling and assembly technology	gripper
6 Adapters	For drive/drive and drive/gripper connections	adapter kit

Passive guide axes EGC-FA, without drive

Key features

Slide variants

Standard slide

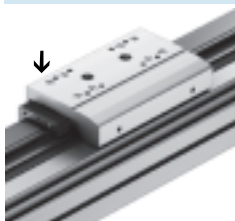


Additional slide



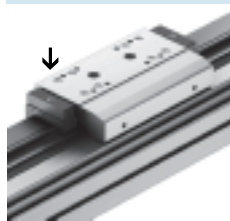
Guide options

Protected version



- The protected guide cleans the guide rail and protects the recirculating ball bearing guide with the aid of an additional wiper

With central lubrication



- The lubrication adapter enables the guide to be permanently lubricated using semi or fully automatic relubrication devices
- The adapters are suitable for oils and greases
- Both lubrication adapters must be connected

Clamping unit

→ 9



- 1 or 2-channel design, for holding loads
- Reliable holding is guaranteed since the forces act directly on the slide
- A limited number of emergency braking operations are permissible with the sizes 120 and 185

Guide axes and the corresponding drives

Passive guide axis DGC-FA



- Can be combined with:
 - Linear drive DGC-KF
- For size 8 ... 63
- Load capacity to max. 6,890 N or 380 Nm

Passive guide axis EGC-FA



- Can be combined with:
 - Toothed belt axis EGC-TB
 - Spindle axis EGC-BS
- For size 70 ... 185
- Load capacity to max. 15,200 N or 1,820 Nm

Passive guide axis FDG-ZR-RF



- Can be combined with:
 - Toothed belt axis DGE-ZR-RF
- For size 25 ... 63
- Load capacity to max. 1,500 N or 600 Nm

Passive guide axis FDG-P/-ZR/-SP



- Can be combined with:
 - Linear drive DGPL
 - Toothed belt axis DGE-ZR-KF
 - Spindle axis DGE-SP-KF
- For size 18 ... 63
- Load capacity to max. 14,050 N or 1,820 Nm

Passive guide axes EGC-FA, without drive

Type codes

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		EGC	-	70	-	500	-	FA	-		-	GK
Type												
EGC	Passive guide axis											
Size												
Stroke [mm]												
Guide												
FA	Passive guide axis											
Stroke reserve												
Slide												
GK	Standard slide											
GP	Standard slide, protected											

Passive guide axes EGC-FA, without drive

Type codes

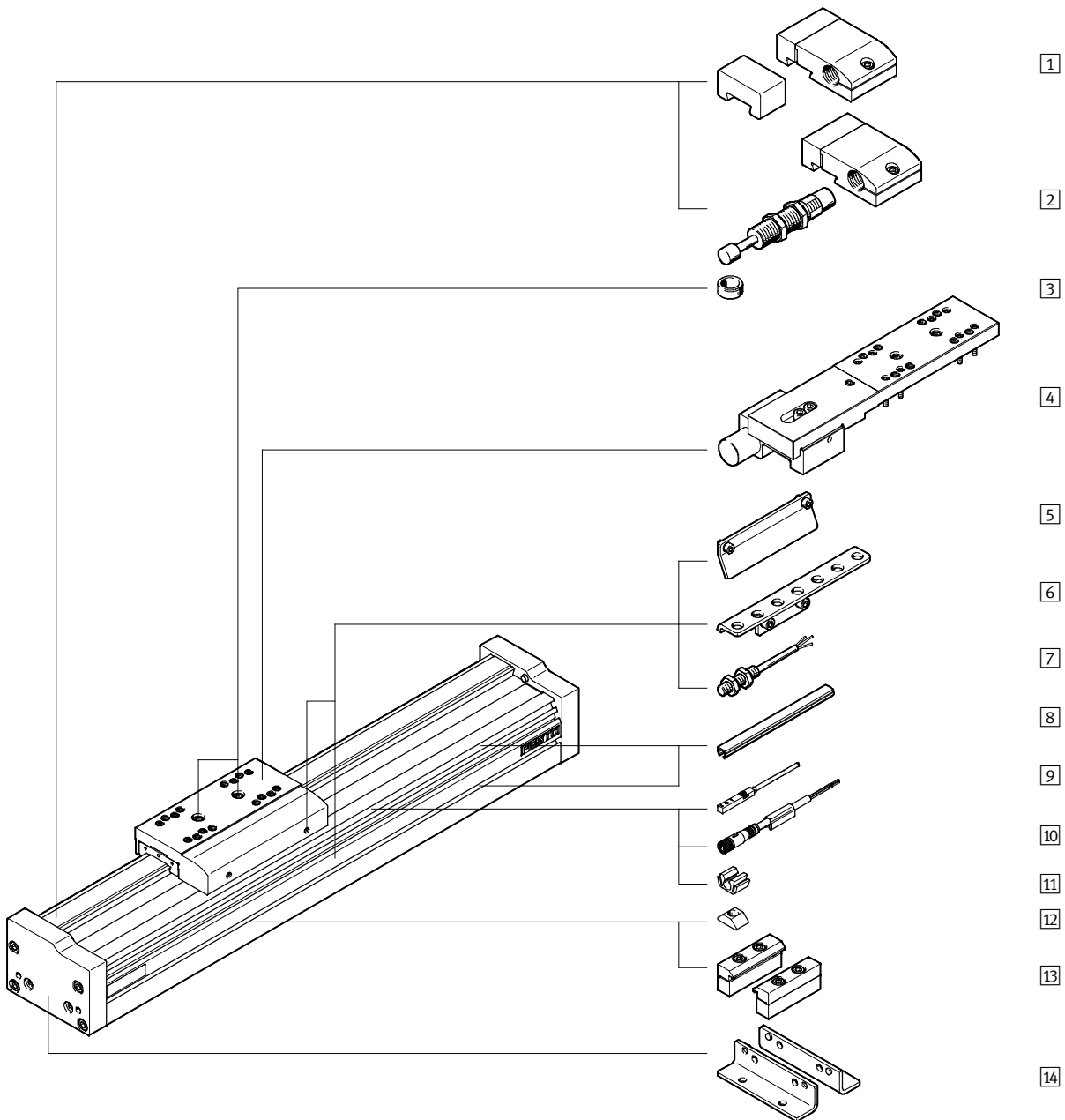


		-	-	-	ZUB	-	F2MX2Z	-	DN
Additional slide									
...K	1 to 2								
Lubrication function									
-	Standard								
C	Lubrication adapter								
Clamping unit									
1HL	1-channel, left								
1HR	1-channel, right								
2H	2-channel								
Actuation type									
PN	Pneumatically actuated								
Accessories enclosed separately									
F	Foot mounting								
...M	Profile mounting								
...B	Mounting slot cover								
...S	Sensor slot cover								
...Y	Slot nut for mounting slot								
...X	Proximity sensor (SIES), inductive, slot type 8, PNP, N/O contact, 7.5 m cable								
...Z	Proximity sensor (SIES), inductive, slot type 8, PNP, N/C contact, 7.5 m cable								
...A	Emergency buffer with retainer								
...C	Shock absorber with retainer								
...O	Proximity sensor (SIEN), inductive, M8, PNP, N/O contact, 2.5 m cable								
...P	Proximity sensor (SIEN), inductive, M8, PNP, N/C contact, 2.5 m cable								
...W	Proximity sensor (SIEN), inductive, M8, PNP, N/O contact, plug M8								
...R	Proximity sensor (SIEN), inductive, M8, PNP, N/C contact, plug M8								
...V	Connecting cable								
...CL	Cable clip								
Operating instructions									
DN	None								

Passive guide axes EGC-FA, without drive

Peripherals overview

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Passive guide axes EGC-FA, without drive

Peripherals overview

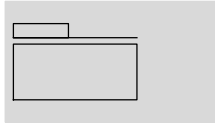
Variants and accessories		
Type	Brief description	→ Page/Internet
1 Emergency buffer with retainer A	For avoiding damage at the end stop in the event of malfunction	30
2 Shock absorber with retainer C	For avoiding damage at the end stop in the event of malfunction	30
3 Centring pin/sleeve ZBS, ZBH	- For centring loads and attachments on the slide 2 centring pins/sleeves included in the scope of delivery of the axis	32
4 Clamping unit 1H...-PN, 2H-PN	For holding loads	9
5 Switch lug X, Z, O, P, W, R	For sensing the slide position	30
6 Sensor bracket O, P, W, R	Adapter for mounting the inductive proximity sensors (round design) on the axis	31
7 Proximity sensor, M8 O, P, W, R	- Inductive proximity sensor, round design - The order code O, P, W, R includes 1 switch lug and max. 2 sensor brackets in the scope of delivery	33
8 Slot cover B, S	For protecting against the ingress of dirt	32
9 Proximity sensor, slot type 8 X, Z	- Inductive proximity sensor, for slot type 8 - The order code X, Z includes 1 switch lug in the scope of delivery	33
10 Plug socket with cable V	For proximity sensor (order code W and R)	33
11 Clip CL	For mounting the proximity sensor cable in the slot	32
12 Slot nut Y	For mounting attachments	32
13 Profile mounting M	For mounting the axis on the profile	29
14 Foot mounting F	For mounting the axis on the end cap	28

Passive guide axes EGC-FA, without drive

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Technical data

Function



-  - Size
70 ... 185
-  - Stroke length
50 ... 8,500 mm



General technical data					
Size		70	80	120	185
Design		Passive axis			
Guide		Recirculating ball bearing guide			
Mounting position		Any			
Working stroke					
EGC-...-GK/-GP	[mm]	50 ... 5,000	50 ... 8,500	50 ... 8,500	50 ... 8,500
Max. speed	[m/s]	5			
Max. acceleration	[m/s ²]	50			

Operating and environmental conditions	
Ambient temperature	[°C] -10 ... +60
Protection class	IP40

Weight [kg]				
Size	70	80	120	185
Basic weight with 0 mm stroke ¹⁾				
EGC-...-GK/-GP	1,200	2,000	7,300	20,800
Additional weight per 1,000 mm stroke	4,200	6,200	15,000	29,000
Moving load				
EGC-...-GK/-GP	300	550	2,000	6,000
Additional slide				
EGC-...-K	300	550	2,000	6,000
Clamping unit				
EGC-...-1H...-PN	–	700	2,300	4,900
EGC-...-2H-PN	–	1,300	4,000	8,300

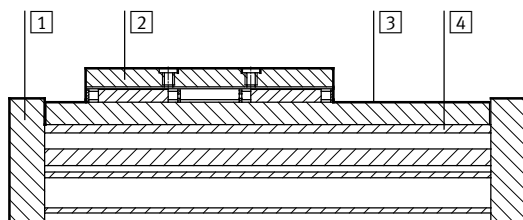
1) Incl. slide

Passive guide axes EGC-FA, without drive

Technical data

Materials

Sectional view



Axis

1	End cap	Anodised wrought aluminium alloy
2	Slide	Anodised wrought aluminium alloy
3	Guide rail	High-alloy steel
4	Profile	Anodised wrought aluminium alloy
Note on materials		RoHS-compliant
		Contains PWIS (paint-wetting impairment substances)

Technical data – Clamping unit

Dimensions → 20

Size		80	120	185
Pneumatic connection		M3	M5	M5
Clamping type		Clamping via spring force, released via compressed air		
Static holding force				
EGC-...-1H-...-PN	[N]	320	1,200	1,500
EGC-...-2H-PN	[N]	640	2,400	3,000
Max. number of emergency braking operations ¹⁾ at reference energy	[Nm]	–	750 35	750 70
Number of clamping operations under nominal load	[million switching cycles]	0.45	0.05	> 1.4

1) Emergency braking refers to braking the effective load if the drive axis loses power.

Operating and environmental conditions – Clamping unit

Operating medium		Compressed air according to ISO 8573-1:2010 [7:4:4]
Operating pressure		
Clamping unit opened	[bar]	4.5 ... 8
Clamping unit closed	[bar]	Pressureless
Ambient temperature	[°C]	−10 ... +60

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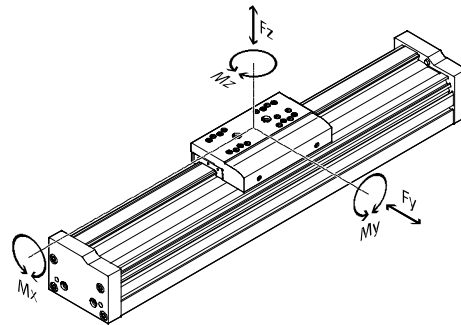
Technical data

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Characteristic load values

The indicated forces and torques refer to the slide surface. The point of application of force is the point where the centre of the guide and the longitudinal centre of the slide intersect.

These values must not be exceeded during dynamic operation. Special attention must be paid to the cushioning phase.



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

Calculating the load comparison factor:

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

Permissible forces and torques						
Size			70	80	120	185
F _y max.		[N]	1,850	3,050	6,890	15,200
F _z max		[N]	1,850	3,050	6,890	15,200
M _x max.		[Nm]	16	36	144	529
M _y max.	GK/GP	[Nm]	51	97	380	1,157
M _z max.	GK/GP	[Nm]	51	97	380	1,157

Service life

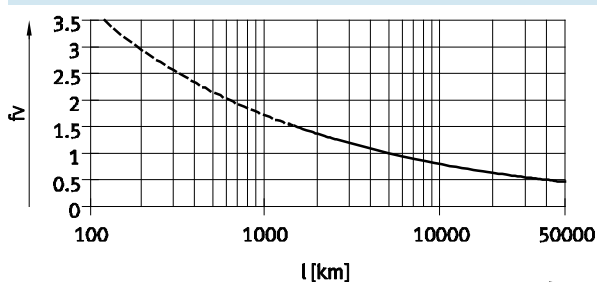
The service life of the guide depends on the load. To provide a rough indication of the service life of the guide, the

graph below plots the load comparison factor f_v against the service life.

These values are only theoretical. You must consult your local contact person

at Festo 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 above formula gives a value of 1.5 for the load comparison factor. According to the graph, the guide has a service life of approx.

1,500 km. Reducing the acceleration reduces the M_z and M_y values. A load comparison factor of 1 now gives a service life of 5,000 km.

- Note

PositioningDrives
sizing software
www.festo.com

The guide workload for a service life of 5,000 km can be calculated with the help of the sizing software.

$f_v > 1.5$ are only theoretical comparison values for the recirculating ball bearing guide.

Passive guide axes EGC-FA, without drive

Technical data

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Stroke reserve

Stroke length	Stroke reserve		
The selected stroke corresponds in principle to the required working stroke. The variant GK does not have a wiper seal on the guide. This variant therefore additionally has a safety distance between the drive cap and slide that is not designated as part of the working stroke.	A safety distance (similar to GK) between the drive cap and slide can be defined for the variants GP and GK-C using the modular product system via the "stroke reserve" feature. With the variant GK, the stroke reserve and safety distance are added for each end position.	- The stroke reserve length can be freely selected - The sum of the stroke length and 2x stroke reserve must not exceed the maximum working stroke	Example: EGC-70-500-FA-20H-... Working stroke = 500 mm 2x stroke reserve = 40 mm Total length = 540 mm (540 mm = 500 mm + 2x 20 mm)

Size	70	80	120	185
L9 = safety distance with GK [mm] (per end position)	10.5	13	18	21

Working stroke reduction

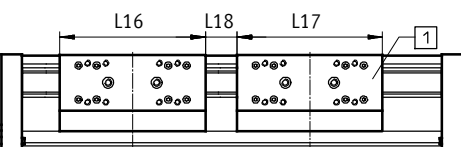
With standard slide GK/GP with additional slide K

- With a guide axis with additional slide, the working stroke is reduced by the length of the additional slide and the distance between both slides
- With the variant GP, the additional slide is also protected
- If the variant GK-C is ordered, the additional slide is also supplied with lubrication adapters

L16 = Slide length

L17 = Additional slide length

L18 = Distance between both slides

 1 Additional slide

Example:

Type EGC-70-500-FA-...-GK-1K

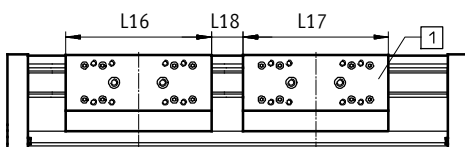
Working stroke without additional slide = 500 mm

L18 = 20 mm

L16, L17 = 100 mm

Working stroke with additional slide = 380 mm

(500 mm - 20 mm - 100 mm)



Dimensions – Additional slide

Size	70		80		120		185	
Variant	GK	GP	GK	GP or GK-C	GK	GP or GK-C	GK	GK-C
Length L17 [mm]	100	121	120	146	200	236	280	322
Min. distance between the slides L18 [mm]	–	21	–	26	–	36	–	42

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Technical data

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Working stroke reduction per side

With integrated emergency buffer NPE/shock absorber YSRW with shock absorber retainer KYE

- The working stroke is reduced by the total dimension of the emergency buffer/shock absorber and shock absorber retainer.
- The rubber buffer in the cap must be removed.
- Shock absorbers must not be used in combination with GK-C.

Size		70	80	120	185
With emergency buffer	[mm]	43	68	98	133
With shock absorber	[mm]	42	63	84	107

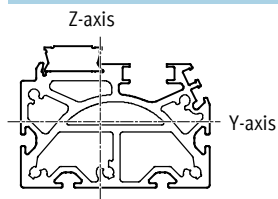
Working stroke reduction

With integrated clamping unit

- The working stroke is reduced by the length of the clamping unit.
- With 1-channel clamping units, the stroke is reduced on one side with respect to the mounting surface.
- With 2-channel clamping units, the stroke is reduced symmetrically with respect to the mounting surface of the load.
- Shock absorbers must not be used in combination with the clamping unit.

Size		80	120	185
EGC-...-1H...-PN	[mm]	87	124	131
EGC-...-2H-PN	[mm]	174	248	262

2nd moment of area



Size		70	80	120	185
I _y	[mm ⁴]	3.95x10 ⁵	8.44x10 ⁵	4.62x10 ⁶	2.34x10 ⁷
I _z	[mm ⁴]	5.77x10 ⁵	1.16x10 ⁶	5.65x10 ⁶	2.74x10 ⁷

Passive guide axes EGC-FA, without drive

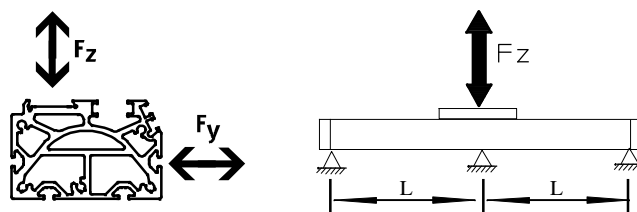
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Technical data

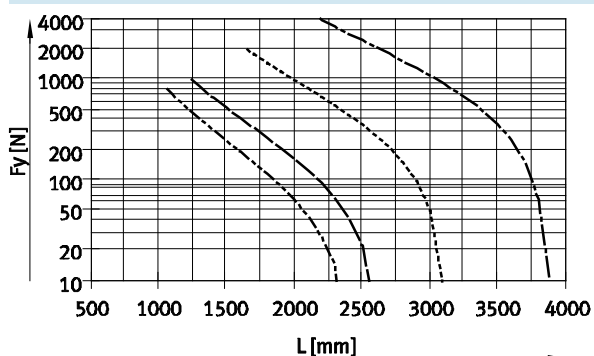
Maximum permissible support span L (without profile mounting) as a function of force F

In order to limit deflection in the case of large strokes, the axis may need to be supported.

The following graphs can be used to determine the maximum permissible support span l as a function of force F acting on the axis. The deflection is $f = 0.5$ mm.

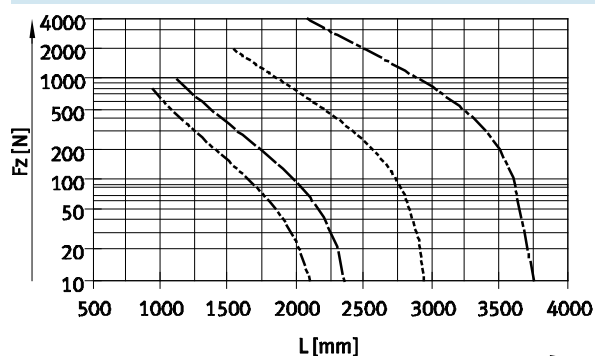


Force F_y



- EGC-70
- EGC-80
- EGC-120
- · - · - EGC-185

Force F_z



Recommended deflection limits

Adherence to the following deflection limits is recommended so as not to impair the functional performance of the

axes. Greater deformation can result in increased friction, greater wear and reduced service life.

Size	Dyn. deflection (load moving)	Stat. deflection (load stationary)
70 ... 185	0.05% of the axis length, max. 0.5 mm	0.1% of the axis length

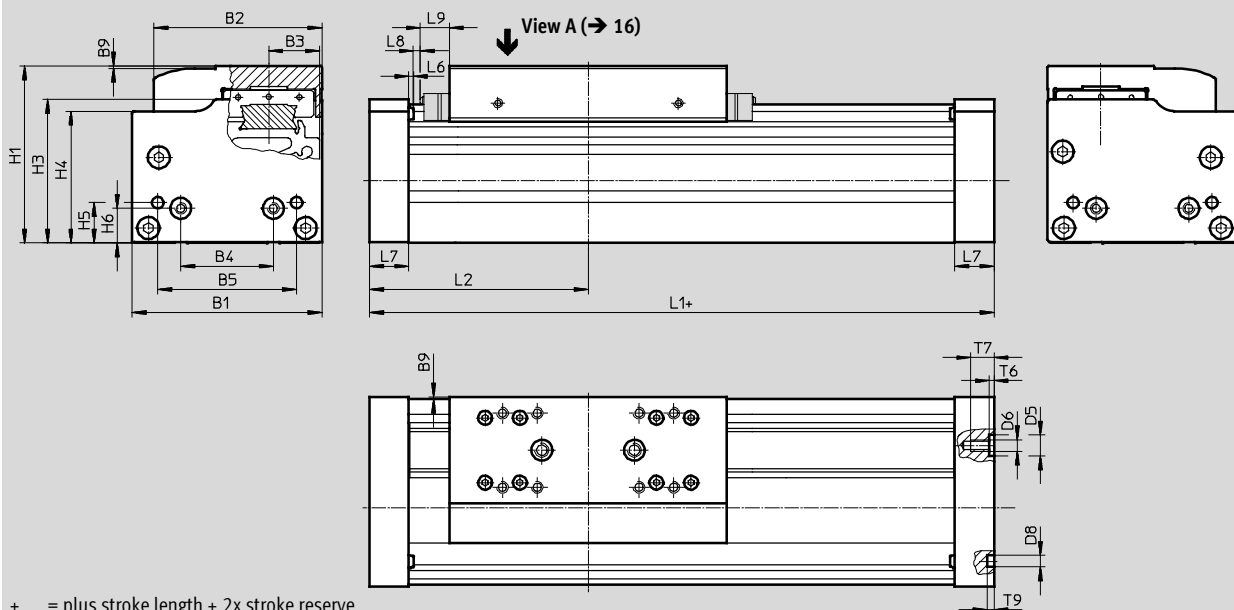
Passive guide axes EGC-FA, without drive

Technical data

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Dimensions

Download CAD data → www.festo.com



+ = plus stroke length + 2x stroke reserve
 L9 With GK: safety distance per end position
 With GP: dimension for wiper seal → 11
 With GK-C/GV-C: dimension for adapter → 18

Size	B1	B2	B3	B4	B5	B9	D5 Ø H7
70	69	58.6	16.5	30	45	1	–
80	82	72.6	22	40	60	1	9
120	120	107	33	80	40	1	–
185	186	169	53	120	80	1	–

Size	D6	D8 Ø H7	H1	H3	H4	H5	H6	L1
70	M5	5	64	50.5	47	13	13	163
80	M5	5	76.5	62	57	17.5	15	190
120	M8	9	111.5	89	82	22	22	306
185	M10	9	172.5	141	131.5	25	25	406

Size	L2	L6	L7	L8	L9	T6	T7	T9
70	81.5	1.8	16	3	10.5	–	10	3.1
80	95	2	17	3	13	2.1	10.1	3.1
120	153	2	30	3	18	–	16	2.1
185	203	2	37	3	21	–	20	2.1

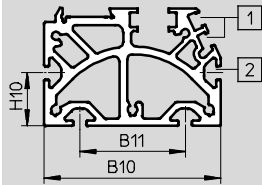
Passive guide axes EGC-FA, without drive

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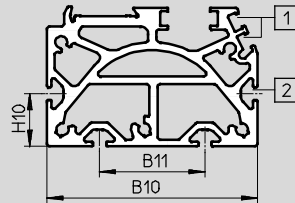
Technical data

Profile

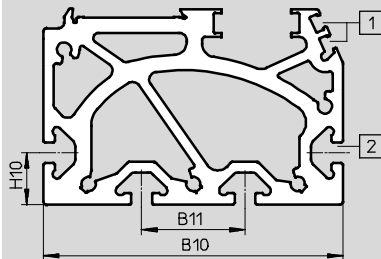
Size 70



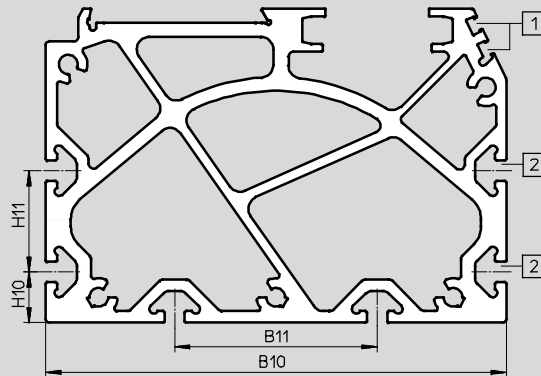
Size 80



Size 120



Size 185



- 1 Sensor slot for proximity sensor
- 2 Mounting slot for slot nut

Size	B10	B11	H10	H11
70	67	40	20	–
80	80	40	20	–
120	116	40	20	–
185	182	80	20	40

- Note

To avoid distortion in the slide, the bearing surfaces of the attachments must maintain a minimum flatness of 0.01 mm.

Passive guide axes EGC-FA, without drive

Technical data

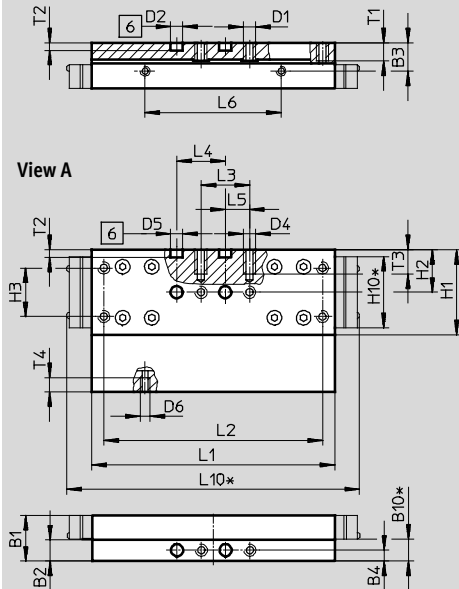
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Dimensions

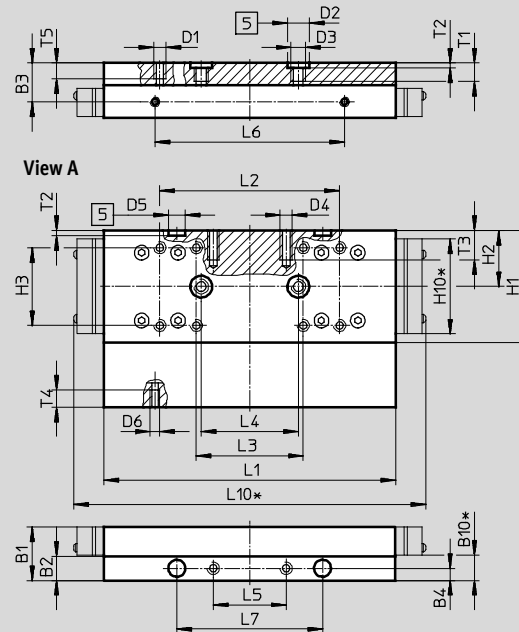
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GK – Standard slide/GP – Standard slide, protected

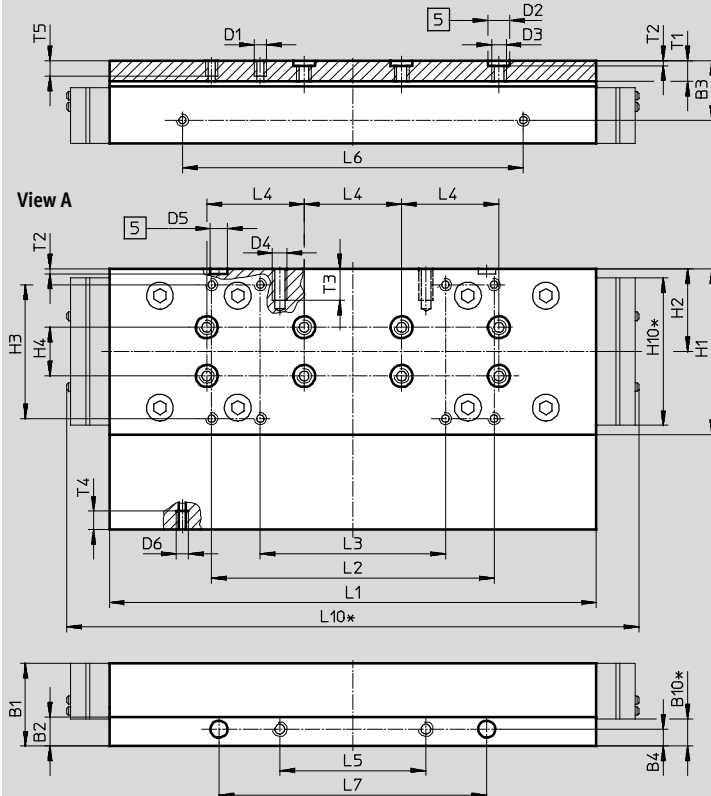
Size 70



Size 80



Size 120



- [5] Hole for centring sleeve
- [6] Hole for centring pin
- * Protected version

Passive guide axes EGC-FA, without drive

Technical data

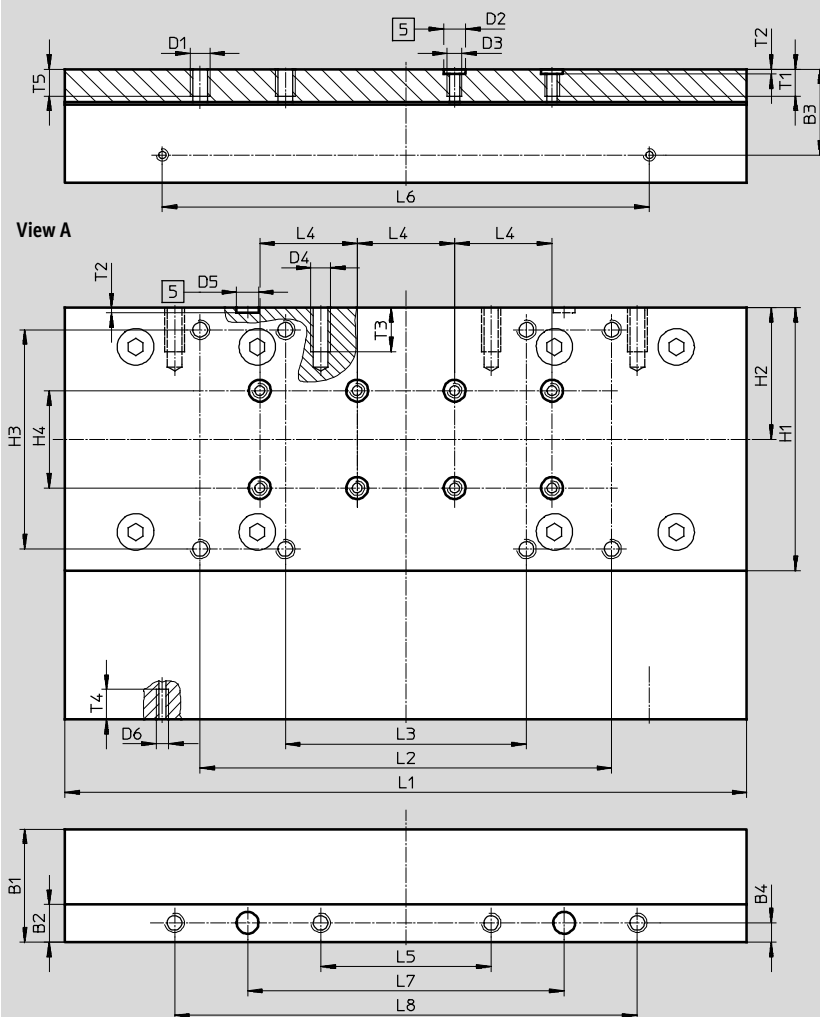
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Dimensions

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GK – Standard slide

Size 185



5 Hole for centring sleeve

Size	B1	B2	B3	B4	B10*	D1	D2 Ø H7	D3	D4	D5 Ø H7	D6	H1	H2	H3	H4 ±0.03
70	18.7	8.7	11.7	4.5	9	M5	5	–	M5	5	M4	35	17.5	20 ±0.1	–
80	22	10	16	5	10.4	M5	9	M6	M5	7	M4	46	23	32 ±0.2	–
120	34	12	24.5	7	11.2	M5	9	M6	M6	7	M5	68	34	55 ±0.2	20
185	46.5	15.5	35.2	8	–	M8	9	M6	M8	9	M5	108	54	90 ±0.2	40

Size	H10*	L1 ±0.1	L2	L3	L4 ±0.03	L5	L6 ±0.1	L7 ±0.05	L8 ±0.2	L10*	T1	T2 +0.1	T3	T4	T5
70	29.4	100	90 ±0.1	20 ±0.1	20	10 ±0.1	56	–	–	121	7.5	3.1	10	6	–
80	39	120	74 ±0.2	44 ±0.2	40	30 ±0.1	78	60	–	145	8.6	2.1	12	7	7.5
120	60.6	203.3	116 ±0.2	76 ±0.2	40	60 ±0.1	140	110	–	235	8.6	2.1	13	7.5	7.5
185	–	282.8	169 ±0.2	99 ±0.2	40	70 ±0.2	200	130	190	–	11	2.1	18	12.3	12

* Protected version

Passive guide axes EGC-FA, without drive

Technical data

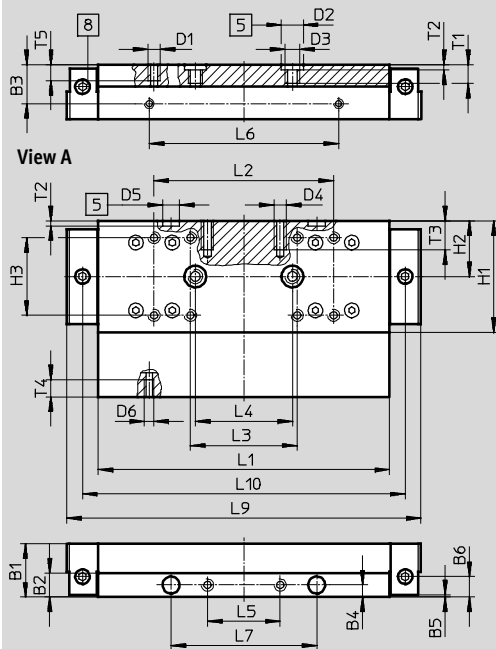
FESTO

Dimensions

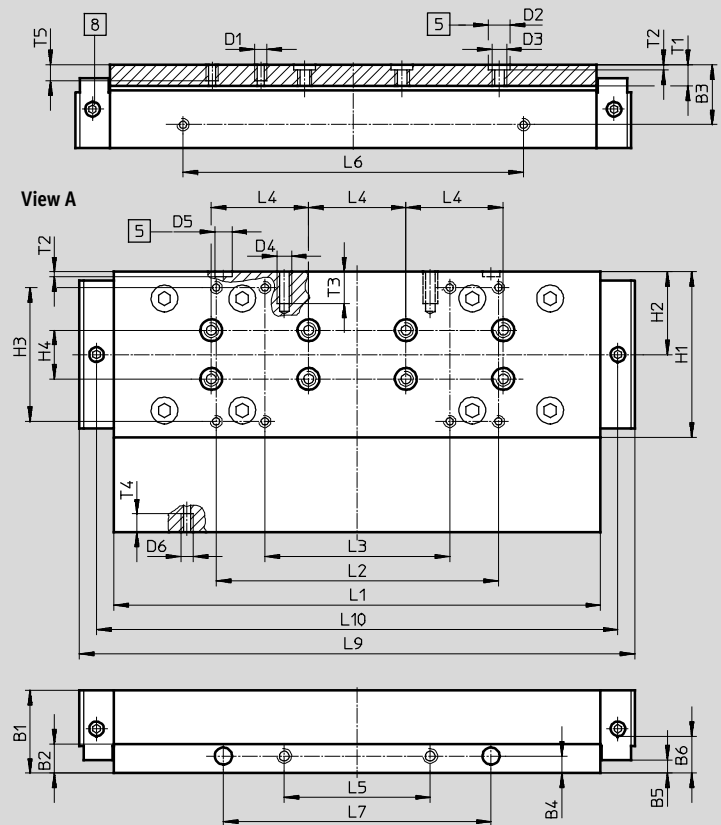
Download CAD data → www.festo.com

GK-C – Standard slide with lubrication adapter

Size 80



Size 120



- 5 Hole for centring sleeve
- 8 Lubricating hole for lubrication adapter,
M6 threaded connection, 6 mm deep

Size	B1	B2	B3	B4	B5	B6	D1	D2 Ø H7	D3	D4
80	22	10	16	5	1 ±0.1	8.5	M5	9	M6	M5
120	34	12	24.5	7	5.5	18.2	M5	9	M6	M6

Size	D5 Ø H7	D6	H1	H2	H3	H4	L1	L2	L3	L4
80	7	M4	46	23	32 ±0.2	– ±0.03	120 ±0.1	74 ±0.2	44 ±0.2	40 ±0.03
120	7	M5	68	34	55	20	203.3	116	76	40

Size	L5	L6	L7	L9	L10	T1	T2	T3	T4	T5
80	30 ±0.1	78 ±0.1	60 ±0.05	146	133	8.6	2.1 +0.1	12	7	7.5
120	60	140	110	226.9	214.3	8.6	2.1	13	7.5	7.5

Passive guide axes EGC-FA, without drive

Technical data

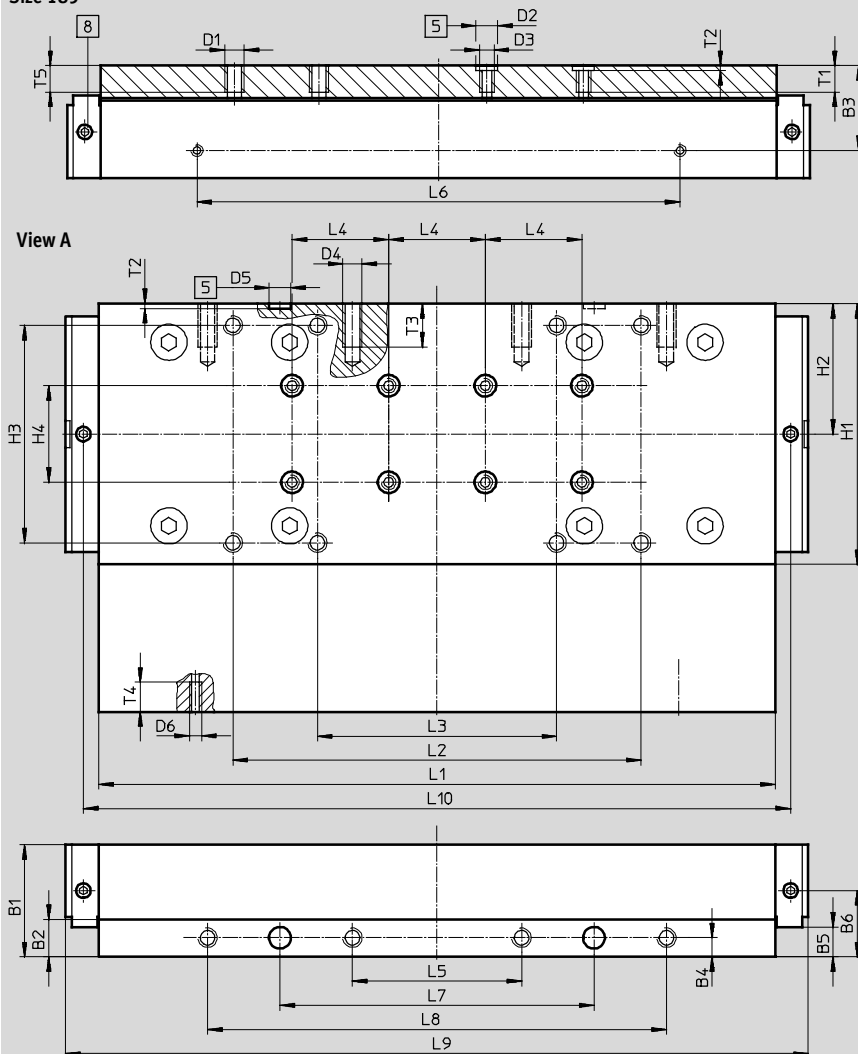
FESTO

Dimensions

Download CAD data → www.festo.com

GK-C – Standard slide with lubrication adapter

Size 185



Size	B1	B2	B3	B4	B5	B6	D1	D2 Ø H7	D3	D4
185	46.5	15.5	35.2	8	±0.1 12.5	27.5	M8	9	M6	M8

Size	D5 Ø H7	D6	H1	H2	H3	H4	L1	L2	L3	L4
185	9	M5	108	54	±0.2 90	±0.03 40	±0.1 282.8	±0.2 169	±0.2 99	±0.03 40

Size	L5	L6	L7	L8	L9	L10	T1	T2	T3	T4	T5
185	±0.2 70	±0.1 200	±0.05 130	±0.2 190	307.4	292.8	11	±0.1 2.1	18	12.3	12

Passive guide axes EGC-FA, without drive

Technical data

FESTO

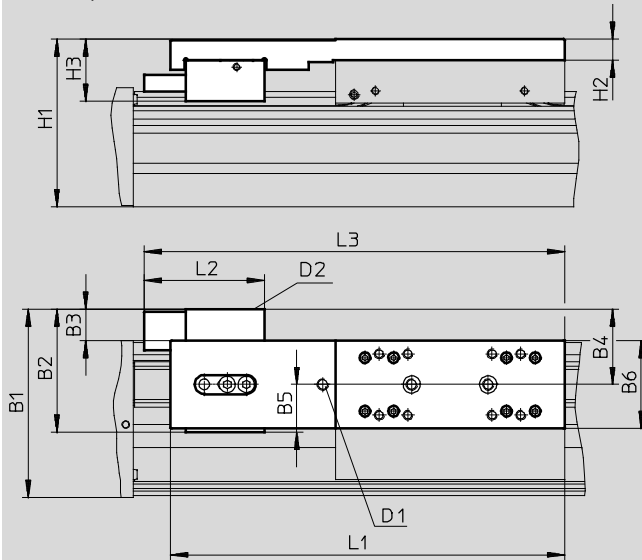
Dimensions

Download CAD data → www.festo.com

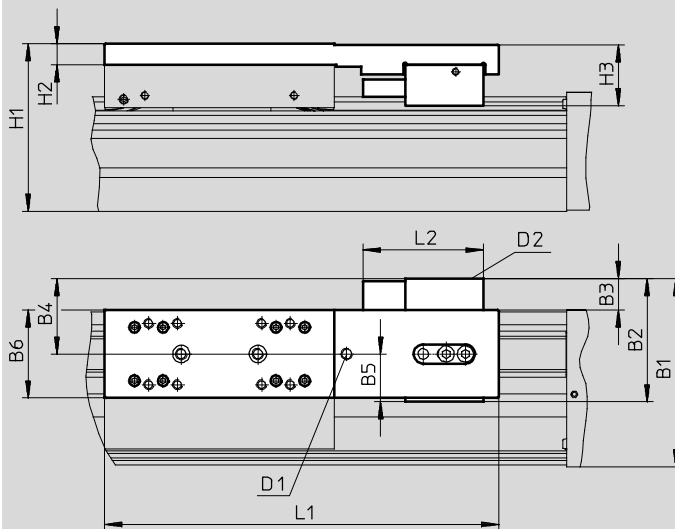
1HL/1HR/2H – With clamping unit

Size 80

1-channel, left



1-channel, right



D2 Supply port

Passive guide axes EGC-FA, without drive

Technical data

FESTO

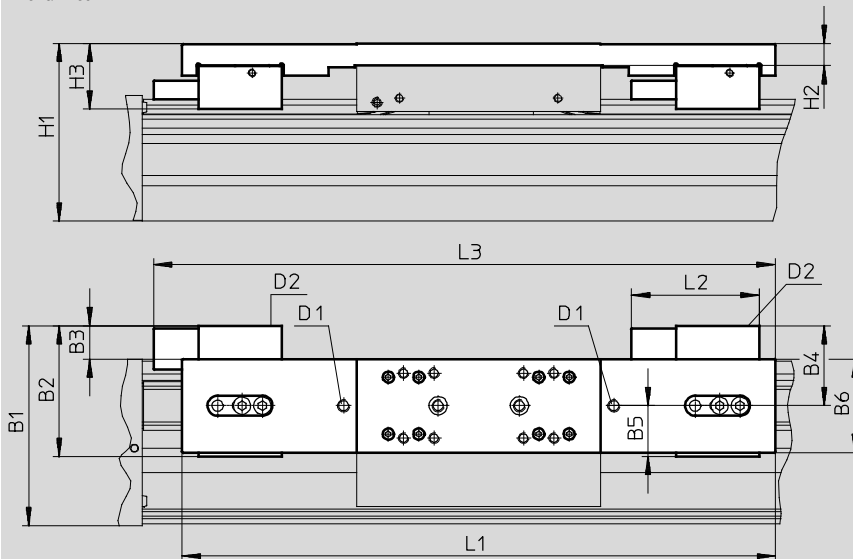
Dimensions

Download CAD data → www.festo.com

1HL/1HR/2H – With clamping unit

Size 80

2-channel



D2 Supply port

Type	B1	B2	B3	B4	B5	B6	H1	H2	H3	D1	D2	L1	L2	L3
EGC-80-...-1HL-PN	98.4	64.4	17.4	39.4	25	46	87.5	11	32.4	M6	M3	206	63	220
EGC-80-...-1HR-PN														–
EGC-80-...-C-1HL-PN														220
EGC-80-...-C-1HR-PN														–
EGC-80-...-2H-PN												292		306
EGC-80-...-C-2H-PN														

Passive guide axes EGC-FA, without drive

Technical data

FESTO

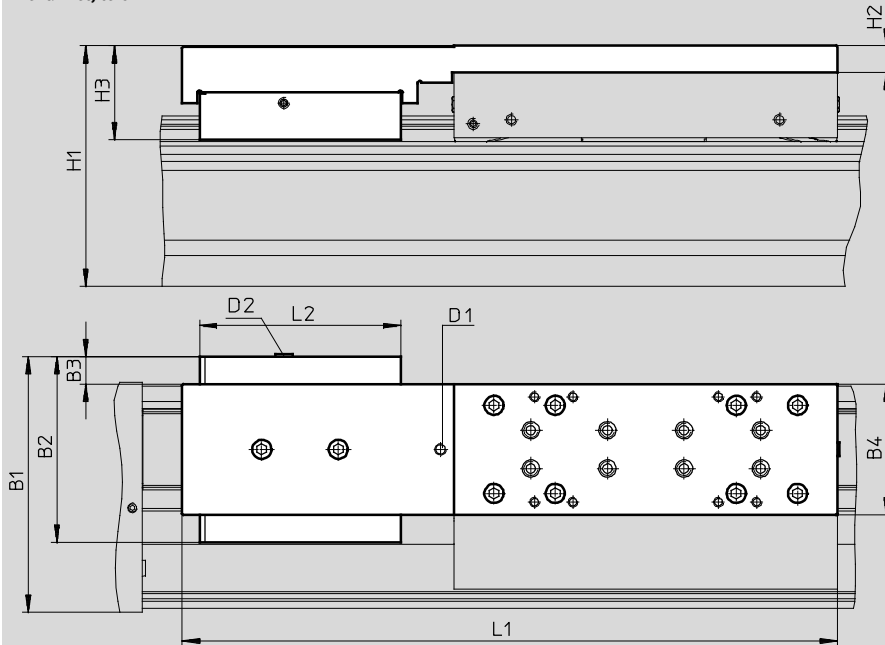
Dimensions

Download CAD data → www.festo.com

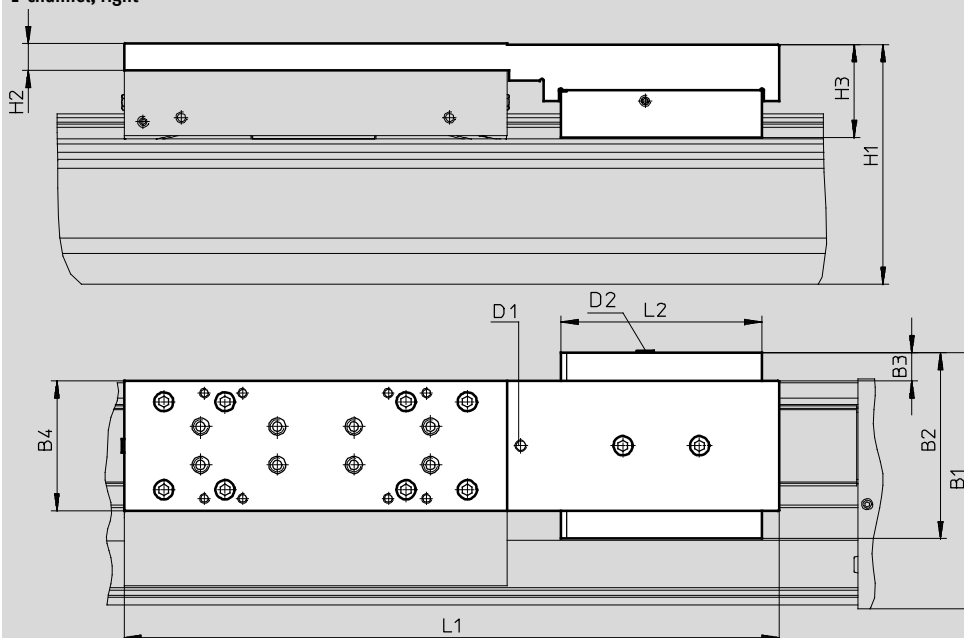
1HL/1HR/2H – With clamping unit

Size 120/185

1-channel, left



1-channel, right



D2 Supply port

Passive guide axes EGC-FA, without drive

Technical data

FESTO

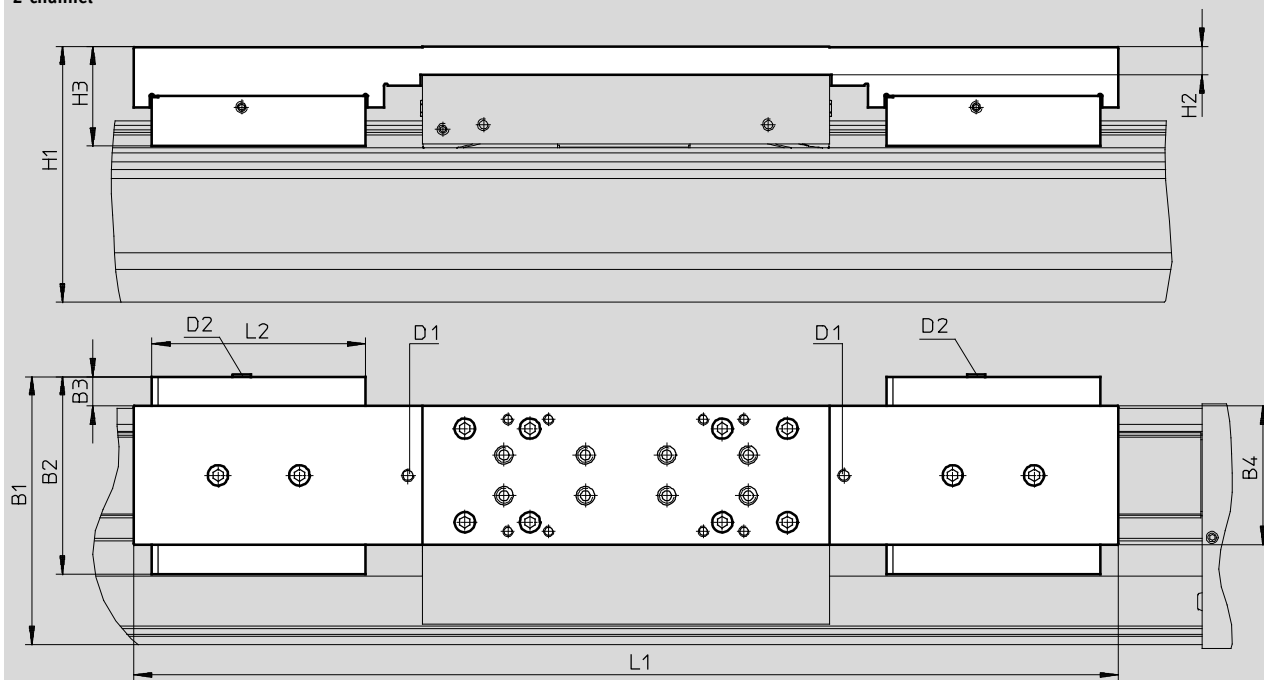
Dimensions

Download CAD data → www.festo.com

1HL/1HR/2H – With clamping unit

Size 120/185

2-channel



D2 Supply port

Type	B1	B2	B3	B4	H1	H2	H3	D1	D2	L1	L2
Size 120											
EGC-120-...-1HL-PN	133.5	97	15.5	68	125.5	14	48.9	M6	M5	342	105
EGC-120-...-1HR-PN											
EGC-120-...-C-1HL-PN											
EGC-120-...-C-1HR-PN											
EGC-120-...-2H-PN											
EGC-120-...-C-2H-PN											
Size 185											
EGC-185-...-1HL-PN	196.5	131	12.5	108	189.5	17	64.1	M6	M5	432	109
EGC-185-...-1HR-PN											
EGC-185-...-C-1HL-PN											
EGC-185-...-C-1HR-PN											
EGC-185-...-2H-PN											
EGC-185-...-C-2H-PN											

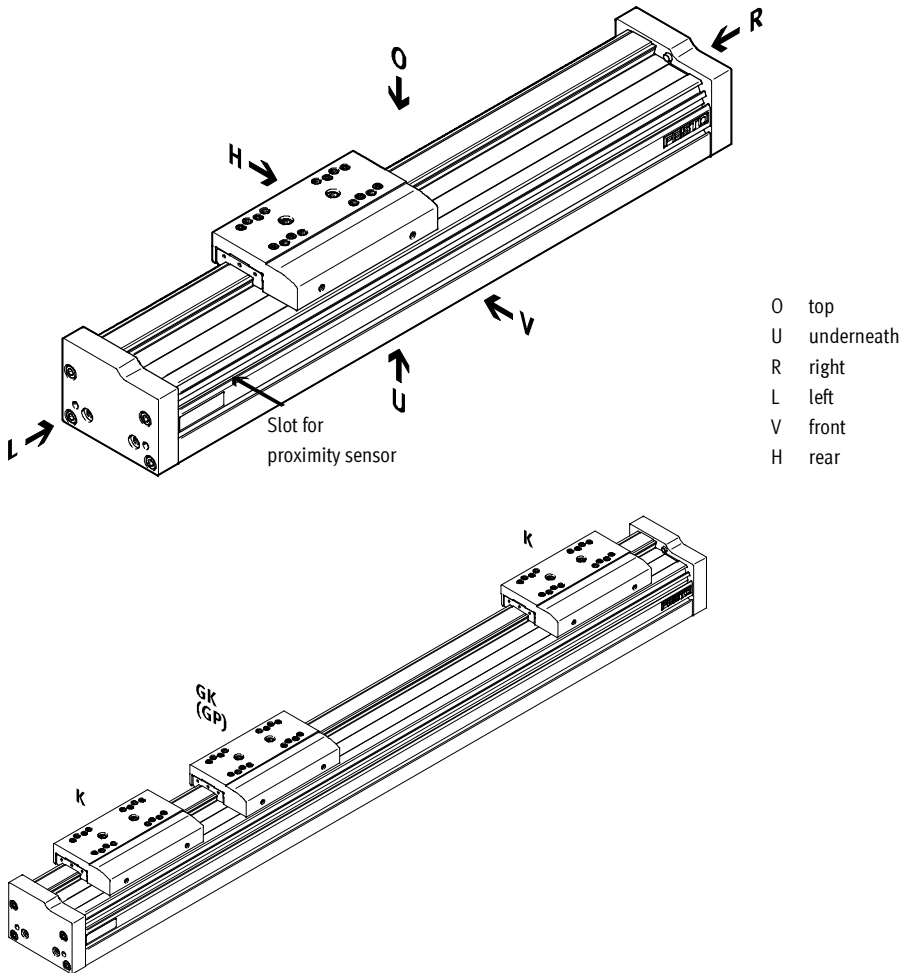
Passive guide axes EGC-FA, without drive

Ordering data – Modular products

FESTO

Order code

Mandatory data



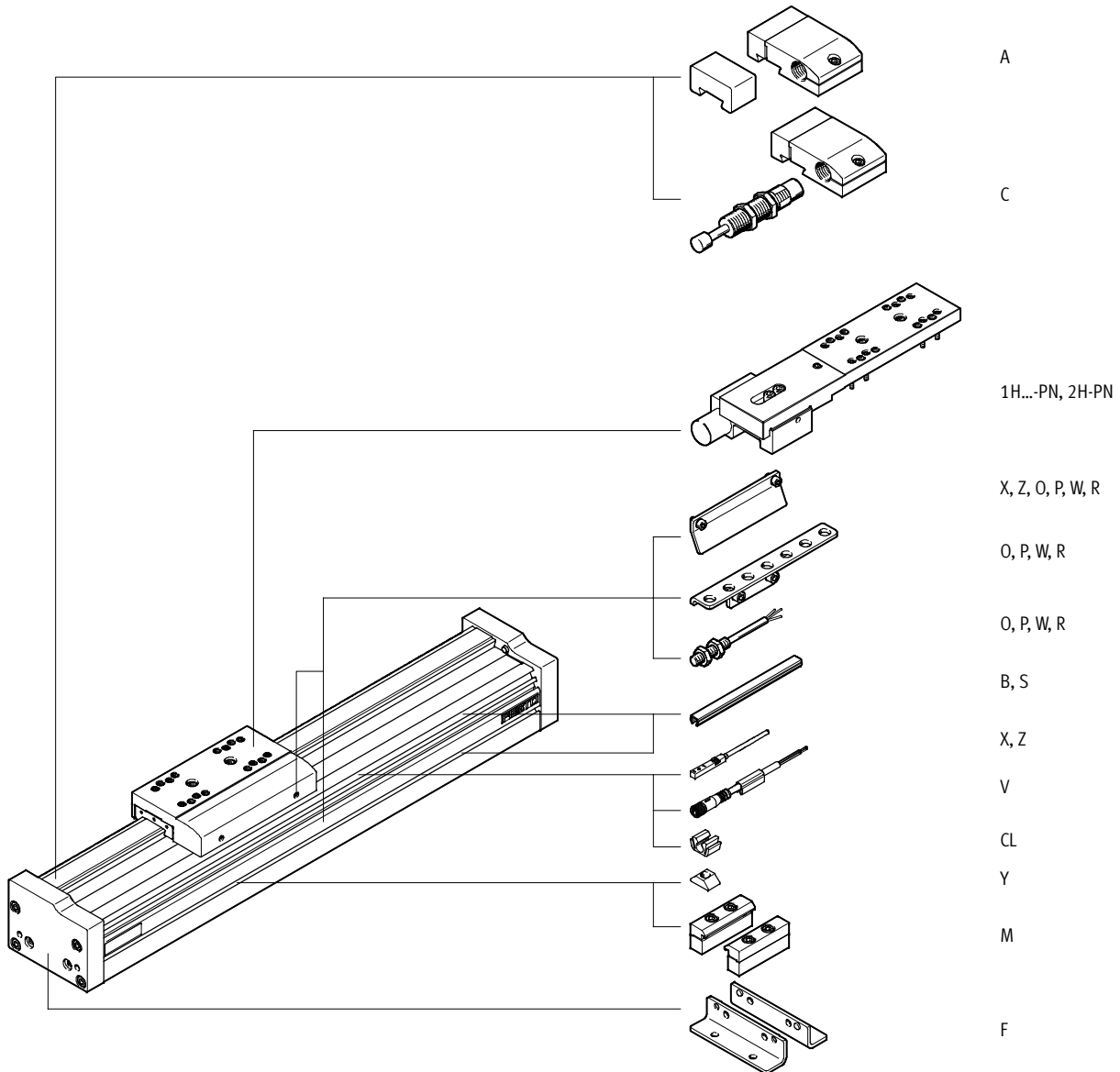
Passive guide axes EGC-FA, without drive

Ordering data – Modular products

FESTO

Order code

Accessories



Passive guide axes EGC-FA, without drive

Ordering data – Modular products

FESTO

Ordering table								
Size	70	80	120	185	Condi- tions	Code	Enter code	
[M] Module No.	558 864	558 865	558 866	558 868				
Design	Passive guide axis					EGC	EGC	
Size	70	80	120	185		-...	-...	
Stroke [mm]	50 ... 5,000	50 ... 8,500	50 ... 8,500	50 ... 8,500	[1]	-...	-...	
Guide	Passive guide axis					-FA	-FA	
Stroke reserve [mm]	0 ... 999 (0 = no stroke reserve)					[1] -...H		
Slide	Standard slide					-GK		
	Standard slide, protected					-GP		
[O] Additional slide	1 ... 2					[2] -...K		
Lubrication function	Standard							
	-	Lubrication adapter				-C		
Clamping unit	-	1-channel, left				[3] -1HL		
	-	1-channel, right				[3] -1HR		
	-	2-channel				[3] -2H		
Actuation type	-	Pneumatic				-PN		

- [1]** -... The sum of the stroke length and 2x stroke reserve must not exceed the maximum stroke length
- [2]** ... **K** If the protected slide variant (GP) is selected, then the additional slide is also protected
If the slide with lubrication adapter (GK-C) is selected, the additional slide (KL, KR) is also supplied with lubrication adapter
Additional slides (K) cannot be ordered for long strokes → product configurator. Please contact your local contact person at Festo if necessary
Working stroke reduction in combination with additional slide (K) → 11
- [3]** **1HL, 1HR, 2H** Not with additional slide K
Only with PN
Working stroke reduction in combination with clamping unit (1HL, 1HR, 2H) → 12

Order code

EGC - - - FA - - - - - - - -

Passive guide axes EGC-FA, without drive

FESTO

Ordering data – Modular products

Ordering table									
Size	70	80	120	185	Condi- tions	Code		Enter code	
↓ Accessories	Accessories enclosed separately					ZUB-		ZUB-	
0 Foot mounting	1					F			
Profile mounting	1 ... 50					...M			
Cover	Mounting slot	1 ... 50 (1 = 2 units, 500 mm)				...B			
	Sensor slot	1 ... 50 (1 = 2 units, 500 mm)				...S			
Slot nut for mounting slot	1 ... 99					...Y			
Proximity sensor (SIES), inductive, slot type 8, PNP, incl. switch lug	N/O contact, 7.5 m cable	1 ... 6				...X			
	N/C contact, 7.5 m cable	1 ... 6				...Z			
Emergency buffer with retainer	1 ... 2				4	...A			
Shock absorber with retainer	1 ... 2				5	...C			
Proximity sensor (SIEN), inductive, M8, PNP, incl. switch lug with sensor bracket	N/O contact, 2.5 m cable	1 ... 99				...O			
	N/C contact, 2.5 m cable	1 ... 99				...P			
	N/O contact, plug M8	1 ... 99				...W			
	N/C contact, plug M8	1 ... 99				...R			
Plug socket with cable 2.5 m, M8, 3-wire	1 ... 99					...V			
Cable clip	10, 20, 30, 40, 50, 60, 70, 80, 90					...CL			
Operating instructions	Express waiver - no operating instructions to be included (already available) (operating instructions in pdf format are available free of charge on the Internet at www.festo.com)					-DN			

- 4 ...A Emergency buffer with retainer A cannot be combined with slide GP, GK-C, shock absorber with retainer C and clamping unit 1H...-PN, 2H-PN
- 5 ...C Shock absorber with retainer C cannot be combined with slide GP, GK-C, emergency buffer with retainer A and clamping unit 1H...-PN, 2H-PN

-  - Note

The code X, Z includes a switch lug in the scope of delivery.
The code O, P, W, R includes one switch lug and max. two sensor brackets in the scope of delivery.

Transfer order code

ZUB -

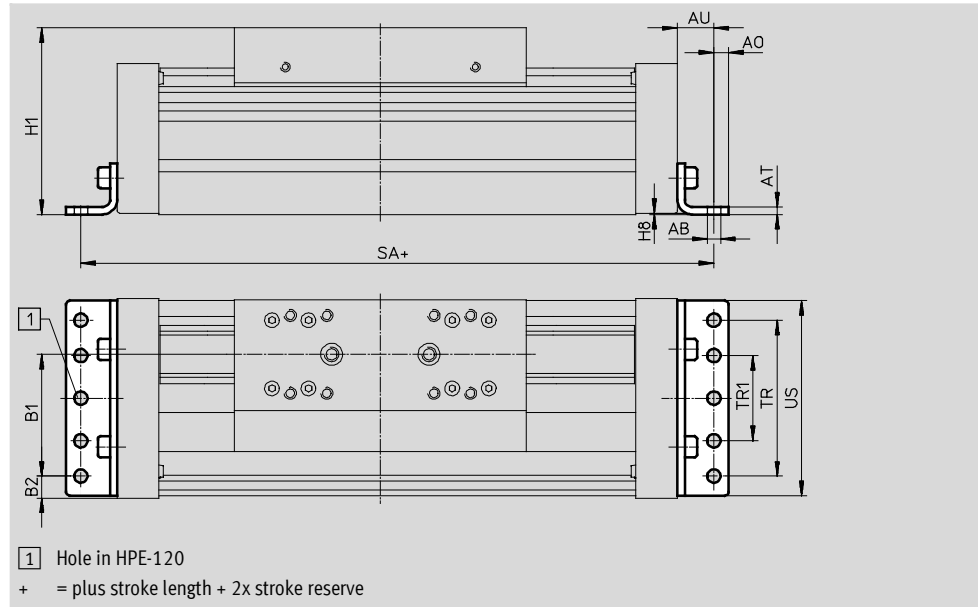
Passive guide axes EGC-FA, without drive

Accessories

FESTO

Foot mounting HPE
(order code F)

Material:
Galvanised steel
RoHS-compliant



Dimensions and ordering data								
For size	AB Ø	A0	AT	AU	B1	B2	H1	H8
70	5.5	6	3	13	37	14.5	64	0.5
80	5.5	6	3	15	38	21	76.5	0.5
120	9	8	6	22	65	20	111.5	0.6
185	9	12	8	25	118	13	172.5	0.5

For size	SA	TR	TR1	US	Weight [g]	Part No.	Type
	GK						
70	189	40	–	67	115	558 321	HPE-70
80	220	40	–	80	150	558 322	HPE-80
120	350	80	–	116	578	558 323	HPE-120
185	456	160	80	182	1,438	558 325	HPE-185

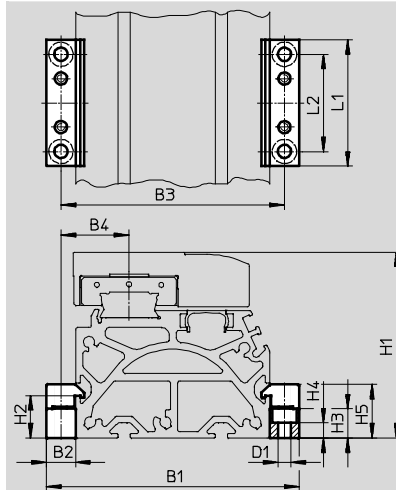
Passive guide axes EGC-FA, without drive

FESTO

Accessories

Profile mounting MUE
(order code M)

Material:
Anodised aluminium
RoHS-compliant



Dimensions and ordering data								
For size	B1	B2	B3	B4	D1 Ø	H1	H2	H3
70	91	12	79	22.5	5.5	64	17.5	12
80	104	12	92	28	5.5	76.5	17.5	12
120	154	19	135	42.5	9	111.5	16	14
185	220	19	201	62.5	9	172.5	16	14

For size	H4	H5	L1	L2	Weight [g]	Part No.	Type
70	6.2	22	52	40	80	558 043	MUE-70/80
80	6.2	22	52	40	80	558 043	MUE-70/80
120	5.5	29.5	90	40	290	558 044	MUE-120/185
185	5.5	29.5	90	40	290	558 044	MUE-120/185

Passive guide axes EGC-FA, without drive

Accessories

FESTO

Shock absorber retainer KYE

Emergency buffer NPE → 32

Shock absorber YSRW → 32

(order code A or C)

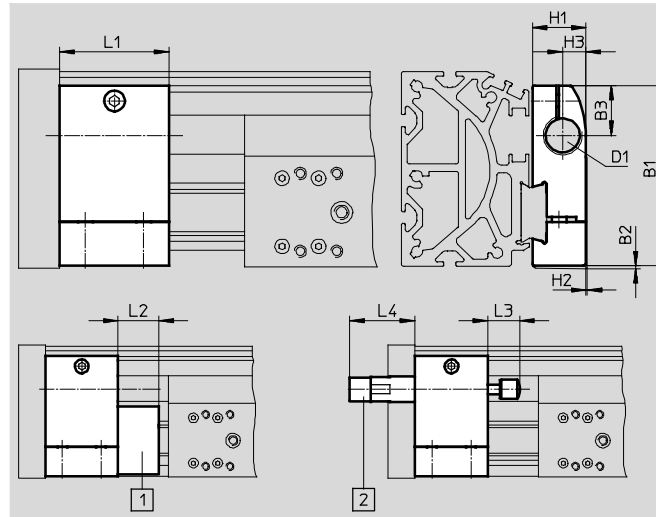
Material:

Anodised aluminium

RoHS-compliant

Cannot be used in combination with

the variant GP or GK-C and 1H...-PN,
2H-PN.



- 1 Emergency buffer NPE
- 2 Shock absorber YSRW

Dimensions and ordering data														Part No.	Type
For size	B1	B2	B3	D1	H1	H2	H3	L1	L2	L3	L4	Weight [g]			
70	57.5	1	16.5	M12X1	18.2	0.5	7.5	30	15	14	32	75		557 584	KYE-70
80	74.2	1	20.5	M16X1	22	0.5	9.5	45	25	20	41	170		557 585	KYE-80
120	108.5	1	26	M22X1.5	31	1	14	60	40	26	48.5	680		557 586	KYE-120
185	168	1	37	M26X1.5	42	4	18	75	60	34	58.5	1,075		557 587	KYE-185

Switch lug SF-EGC-1

for sensing via proximity sensor

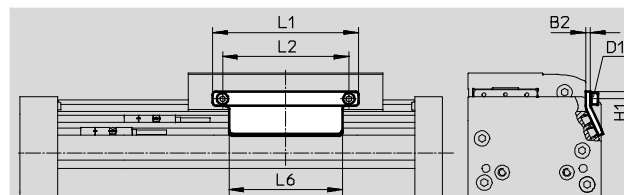
SIES-8M

(order code X or Z)

Material:

Galvanised steel

RoHS-compliant



Dimensions and ordering data								Part No.	Type
For size	B2	D1	H1	L1	L2	L6	Weight [g]		
70	3	M4	4.65	70	56	50	50	558 047	SF-EGC-1-70
80	3	M4	4.65	90	78	70	60	558 048	SF-EGC-1-80
120	3	M5	8	170	140	170	150	558 049	SF-EGC-1-120
185	3	M5	10	230	200	230	245	558 051	SF-EGC-1-185

Passive guide axes EGC-FA, without drive

FESTO

Accessories

Switch lug SF-EGC-2

for sensing via proximity sensor
SIEN-M8B (order code O, P, W or R) or
SIES-8M (order code X or Z)

Material:

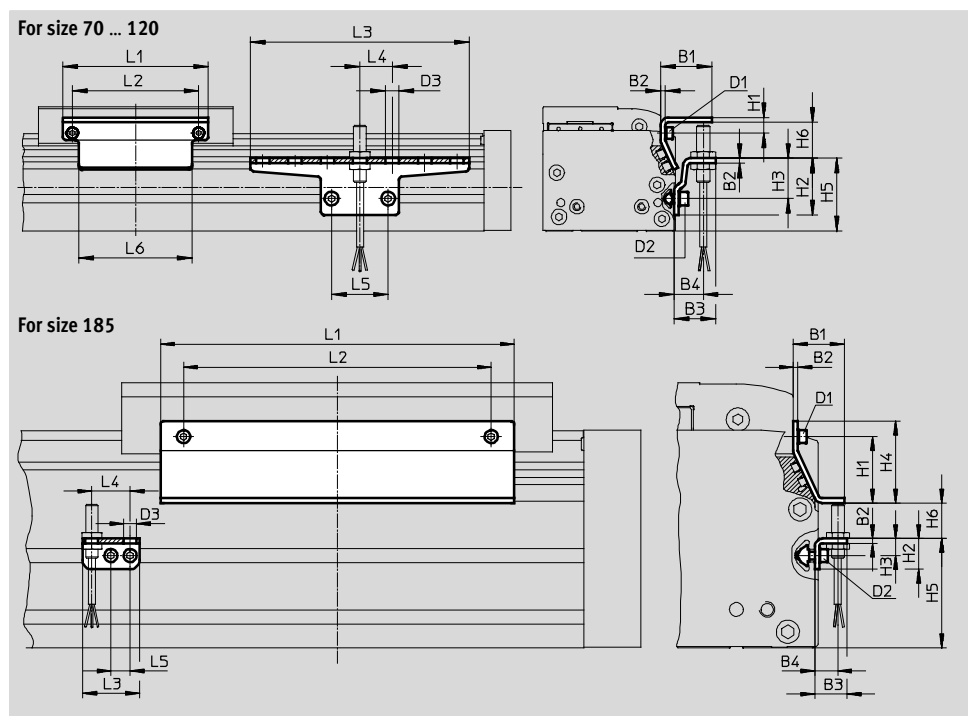
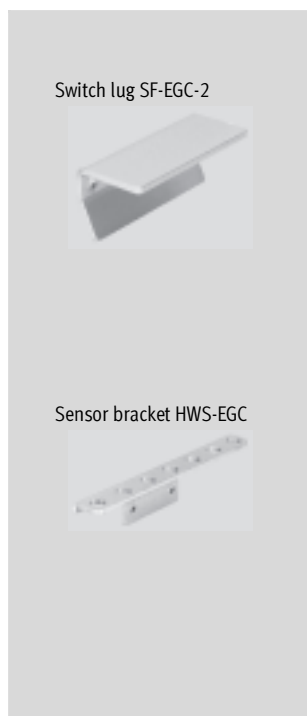
Galvanised steel
RoHS-compliant

Sensor bracket HWS-EGC

for proximity sensor SIEN-M8B
(order code O, P, W or R)

Material:

Galvanised steel
RoHS-compliant



Dimensions and ordering data									
For size	B1	B2	B3	B4	D1	D2	D3 Ø	H1	H2
70	31.5	3	25.5	18	M4	M5	8.4	9.5	35
80	31.5	3	25.5	18	M4	M5	8.4	9.5	35
120	32	3	25.5	18	M5	M5	8.4	13.2	65
185	33	3	25.5	15	M5	M5	8.4	43	20

For size	H3	H4	H5	H6 max.	L1	L2	L3	L4	L5	L6
70	25	–	45	13.5	70	56	135	20	35	50
80	25	–	45	23.5	90	78	135	20	35	70
120	55	–	75	24	170	140	215	20	35	170
185	11	53	71	25.5	230	200	37	25	12.5	230

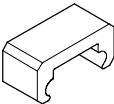
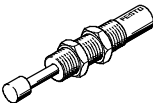
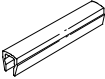
For size	Weight [g]	Part No.	Type
Switch lug			
70	100	558 052	SF-EGC-2-70
80	130	558 053	SF-EGC-2-80
120	280	558 054	SF-EGC-2-120
185	390	558 056	SF-EGC-2-185

For size	Weight [g]	Part No.	Type
Sensor bracket			
70	110	558 057	HWS-EGC-M5
80	110	558 057	HWS-EGC-M5
120	200	570 365	HWS-EGC-M8-B
185	60	560 517	HWS-EGC-M8:KURZ

Passive guide axes EGC-FA, without drive

Accessories

FESTO

Ordering data						
	For size	Remarks	Order code	Part No.	Type	PU ¹⁾
Emergency buffer NPE						
	70	For use in combination with shock absorber retainer KYE	A	562 581	NPE-70	1
	80			562 582	NPE-80	
	120			562 583	NPE-120	
	185			562 584	NPE-185	
Shock absorber YSRW						
	70	For use in combination with shock absorber retainer KYE	C	191 194	YSRW-8-14	1
	80			191 196	YSRW-12-20	
	120			191 197	YSRW-16-26	
	185			191 198	YSRW-20-34	
Slot nut NST						
	70, 80	For mounting slot	Y	150 914	NST-5-M5	1
	120, 185			150 915	NST-8-M6	
Centring pin/sleeve ZBS/ZBH ²⁾						
	70	For slide	–	150 928	ZBS-5	10
	80, 120, 185			150 927	ZBH-9	
Slot cover ABP						
	70, 80	For mounting slot every 0.5 m	B	151 681	ABP-5	2
	120, 185			151 682	ABP-8	
Slot cover ABP-S						
	70 ... 185	For sensor slot every 0.5 m	S	563 360	ABP-5-S1	2
Clip SMBK						
	70 ... 185	For sensor slot, for attaching the proximity sensor cables	CL	534 254	SMBK-8	10

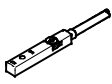
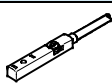
1) Packaging unit

2) 2 centring pins/sleeves included in the scope of delivery of the axis

Passive guide axes EGC-FA, without drive

FESTO

Accessories

Ordering data – Proximity sensors for T-slot, inductive						Technical data ➔ Internet: sies	
	Type of mounting	Electrical connection	Switching output	Cable length [m]	Order code	Part No.	Type
N/O contact							
	Insertable in the slot from above, flush with the cylinder profile	Cable, 3-wire	PNP	7.5	X	551386	SIES-8M-PS-24V-K-7,5-OE
		Plug M8x1, 3-pin		0.3	–	551387	SIES-8M-PS-24V-K-0,3-M8D
		Cable, 3-wire	NPN	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	Cable, 3-wire	PNP	7.5	Z	551391	SIES-8M-PO-24V-K-7,5-OE
		Plug M8x1, 3-pin		0.3	–	551392	SIES-8M-PO-24V-K-0,3-M8D
		Cable, 3-wire	NPN	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 M8 (round design), inductive						Technical data → Internet: sien	
	Electrical connection	LED	Switching output	Cable length [m]	Order code	Part No.	Type
N/O contact							
	Cable, 3-wire	■	PNP	2.5	O	150386	SIEN-M8B-PS-K-L
	Plug M8x1, 3-pin	■	PNP	–	W	150387	SIEN-M8B-PS-S-L
N/C contact							
	Cable, 3-wire	■	PNP	2.5	P	150390	SIEN-M8B-PO-K-L
	Plug M8x1, 3-pin	■	PNP	–	R	150391	SIEN-M8B-PO-S-L

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	159 420	SIM-M8-3GD-2,5-PU	
			2.5	541 333	NEBU-M8G3-K-2.5-LE3	
			5	541 334	NEBU-M8G3-K-5-LE3	
	Angled socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	541 338	NEBU-M8W3-K-2.5-LE3	
			5	541 341	NEBU-M8W3-K-5-LE3	