Passive guide axes EGC-FA, without drive

FESTO

New

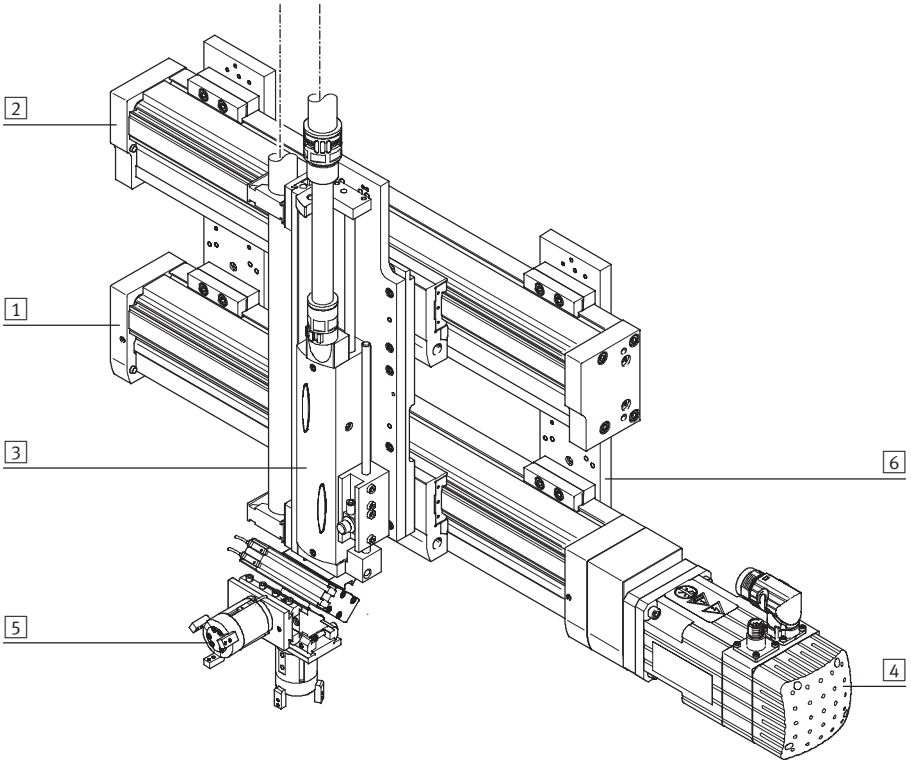
Passive guide axes EGC-FA, without drive

Key features

At a glance

- Driveless linear guide unit with guide and freely movable slide
- The passive guide axis/heavy-duty guide is designed to increase force and torque capacities in multi-axis applications
- Higher torsional resistance
- Reduced vibration with dynamic loads
- Drive axes and passive guide axes/heavy-duty guides can be arranged 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 increasing force and torque capacities 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

Passive 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

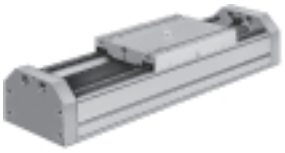
Passive guide axis FDG-ZR-RF

- 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

Heavy-duty guide HD

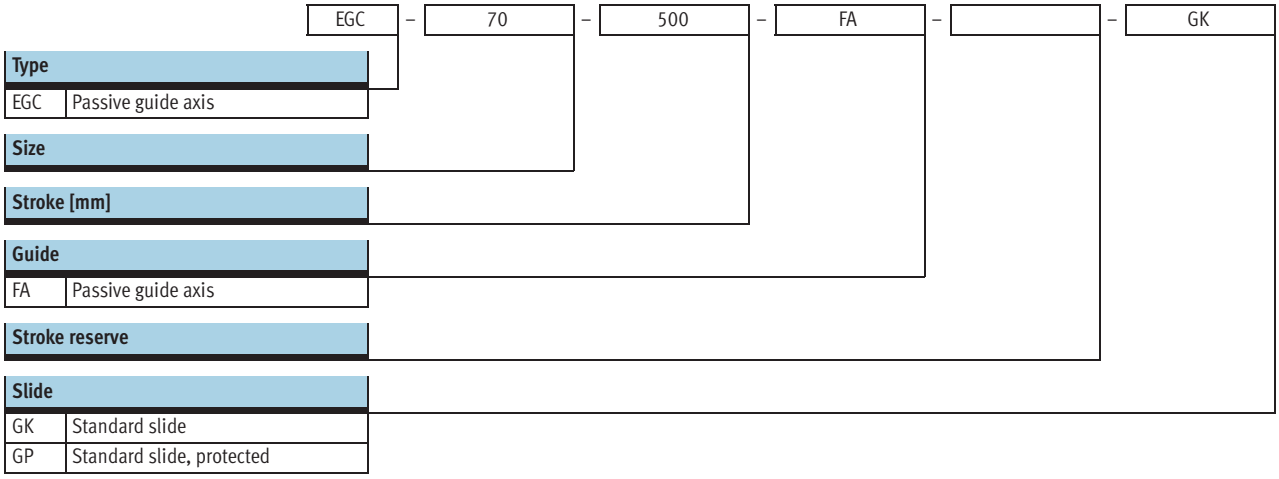


- Size HD8 ... HD40
- Stroke lengths of 10 ... 2,160 mm
- Load capacity to max. 5,600 N or 560 Nm

New

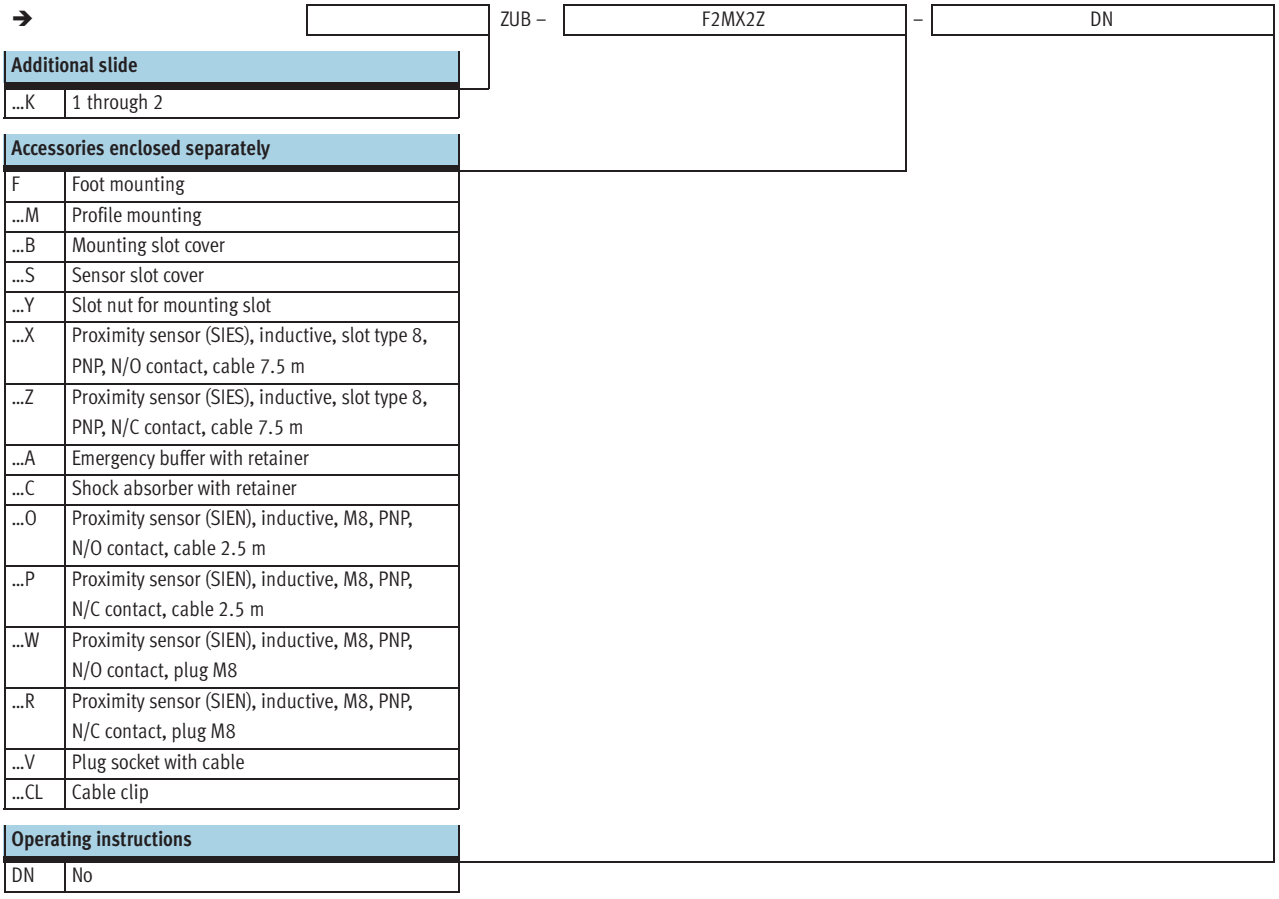
Passive guide axes EGC-FA, without drive

Type codes



Passive guide axes EGC-FA, without drive

Type codes



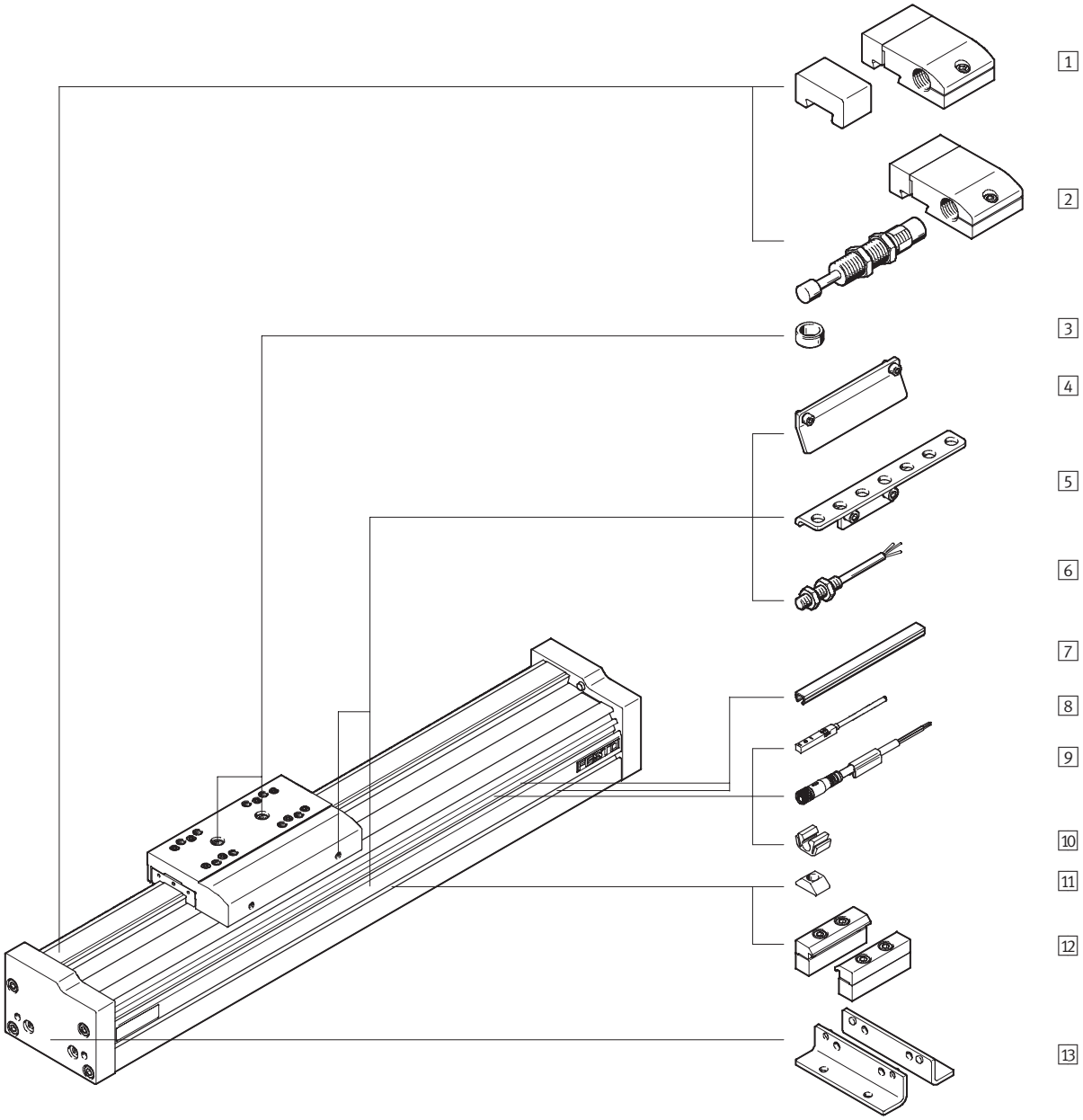
Additional slide	
...K	1 through 2

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, cable 7.5 m
...Z	Proximity sensor (SIES), inductive, slot type 8, PNP, N/C contact, cable 7.5 m
...A	Emergency buffer with retainer
...C	Shock absorber with retainer
...O	Proximity sensor (SIEN), inductive, M8, PNP, N/O contact, cable 2.5 m
...P	Proximity sensor (SIEN), inductive, M8, PNP, N/C contact, cable 2.5 m
...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	Plug socket with cable
...CL	Cable clip

Operating instructions	
DN	No

Passive guide axes EGC-FA, without drive

Peripherals overview



Passive guide axes EGC-FA, without drive

Peripherals overview

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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	22
2	Shock absorber with retainer C	For avoiding damage at the end stop in the event of malfunction	22
3	Centring pin/sleeve ZBS, ZBH	• For centring loads and attachments on the slide • 6 centring pins/sleeves included in the scope of delivery of the axis	24
4	Switching lug X, Z, O, P, W, R	For sensing the slide position	22
5	Sensor bracket O, P, W, R	Adapter for mounting the inductive proximity sensors (round design) on the axis	23
6	Proximity sensor, M8 O, P, W, R	• Inductive proximity sensor, round design • The order code O, P, W, R includes 1 switching lug and max. 2 sensor brackets in the scope of delivery	25
7	Slot cover B, S	• For protecting against ingress of dirt	24
8	Proximity sensor, slot type 8 X, Z	• Inductive proximity sensor, for slot type 8 • The order code X, Z includes 1 switching lug in the scope of delivery	25
9	Plug socket with cable V	For proximity sensor (order code W and R)	25
10	Clip CL	For mounting the proximity sensor cable in the slot	24
11	Slot nut Y	For mounting attachments	24
12	Profile mounting M	For mounting the axis on the profile	21
13	Foot mounting F	For mounting the axis on the end cap	20

New

Passive guide axes EGC-FA, without drive

Technical data

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Size
70 ... 185

Stroke length
50 ... 8,500 mm

General technical data						
Size			70	80	120	185
Constructional design			Passive axis			
Guide			Recirculating ball bearing guide			
Mounting position			Any			
Working stroke	GK/GP	[mm]	50 ... 5,000	50 ... 8,500	50 ... 8,500	50 ... 8,500
Max. speed		[m/s]	5			
Max. acceleration		[m/s²]	50			

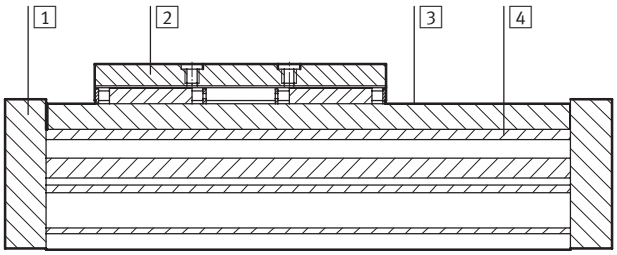
Operating and environmental conditions		
Ambient temperature	[°C]	–10 ... +60
Protection class		IP40

Weight [kg]					
Size		70	80	120	185
Basic weight with 0 mm stroke[1)]	GK/GP	1.2	2	7.3	20.8
Additional weight per 1,000 mm stroke		4.2	6.2	15	29
Moving mass	GK/GP	0.3	0.55	2	6
Additional slide	K	0.3	0.55	2	6

1) Incl. slide

Materials

Sectional view



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

Passive guide axes EGC-FA, without drive

Technical data

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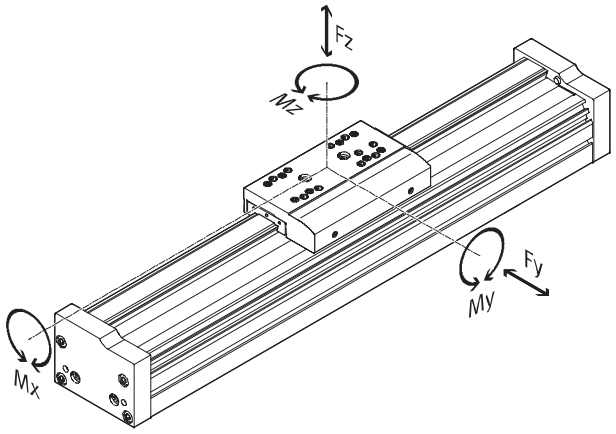
Characteristic load values

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.
They 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:

Calculation of the guide comparison index:

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

Permissible forces and torques

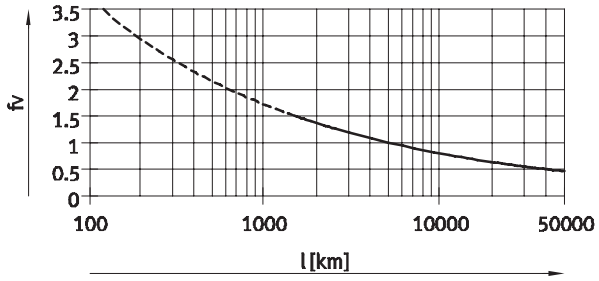
Size			70	80	120	185
$Fy_{max.}$		[N]	1,850	3,050	6,890	15,200
Fz_{max}		[N]	1,850	3,050	6,890	15,200
$Mx_{max.}$		[Nm]	16	36	144	529
$My_{max.}$	GK/GP	[Nm]	51	97	380	1,157
$Mz_{max.}$	GK/GP	[Nm]	51	97	380	1,157

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 guide comparison index f_v against the service life.

This chart only lists theoretical values. Consultation with your local contact person at Festo is mandatory for guide comparison indexes f_v greater than 1.5.

Guide comparison index f_v as a function of service life



Example:
A user wants to move an X kg load. Using the above calculation gives a value of 1.5 for the guide comparison index. According to the graph, the guide would have a service life of approx. 1,500 km. Reducing the acceleration reduces the Mz and My values. A guide comparison index of 1 now gives a service life of 5,000 km.

Note

Design software PositioningDrives
www.festo.com

The load comparison factor fv can also be calculated using the sizing software.

fv values > 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 variant GP 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

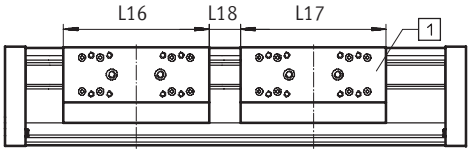
Total length = 540 mm
(540 mm = 500 mm + 2x 20 mm)

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

Working stroke reduction

With standard slide GK/GP with additional slide K

L16 = Slide length
L17 = Additional slide length
L18 = Distance between both slides
1 Additional slide



- For 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

Example:
Type EGC-70-500-FA-...-GK-1K
Working stroke without additional slide = 500 mm
L18 = 20 mm
L17 = 100 mm
L16 = 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	GK	GP	GK
Length L17	[mm]	100	121	120	146	200	236	280
Min. distance between the slides L18	[mm]	–	21	–	26	–	36	–

Working stroke reduction per side

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

With a guide axis with emergency buffer, 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.

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

Passive guide axes EGC-FA, without drive

Technical data

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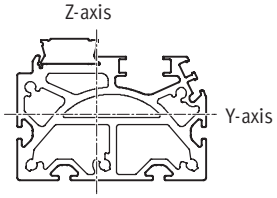
2nd moment of area

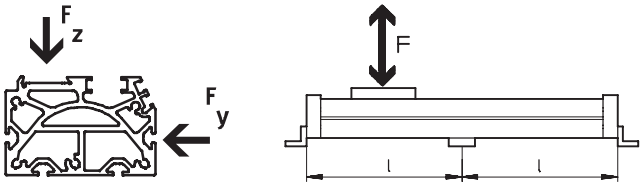


Size		70	80	120	185
Iy	[mm^4]	3.95x10^5	8.44x10^5	4.62x10^6	2.34x10^7
Iz	[mm^4]	5.77x10^5	1.16x10^6	5.65x10^6	2.74x10^7

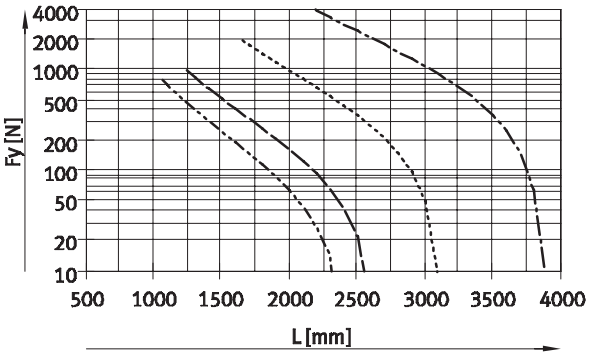
Maximum permissible support span L (without profile mounting) as a function of force F

In order to limit deflection for large strokes, the axis may need to be supported.

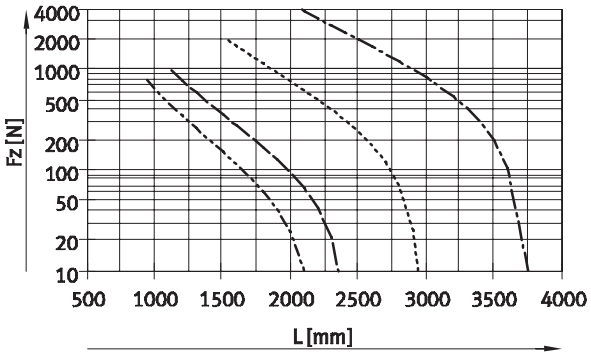
The following graphs serve to determine the maximum permissible support span l as a function of force F acting on the axis. The deflection is f = 0.5 mm.



Force Fy



Force Fz



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

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 (stationary load)
70 ... 185	0.05% of the axis length, max. 0.5 mm	0.1% of the axis length

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Technical data

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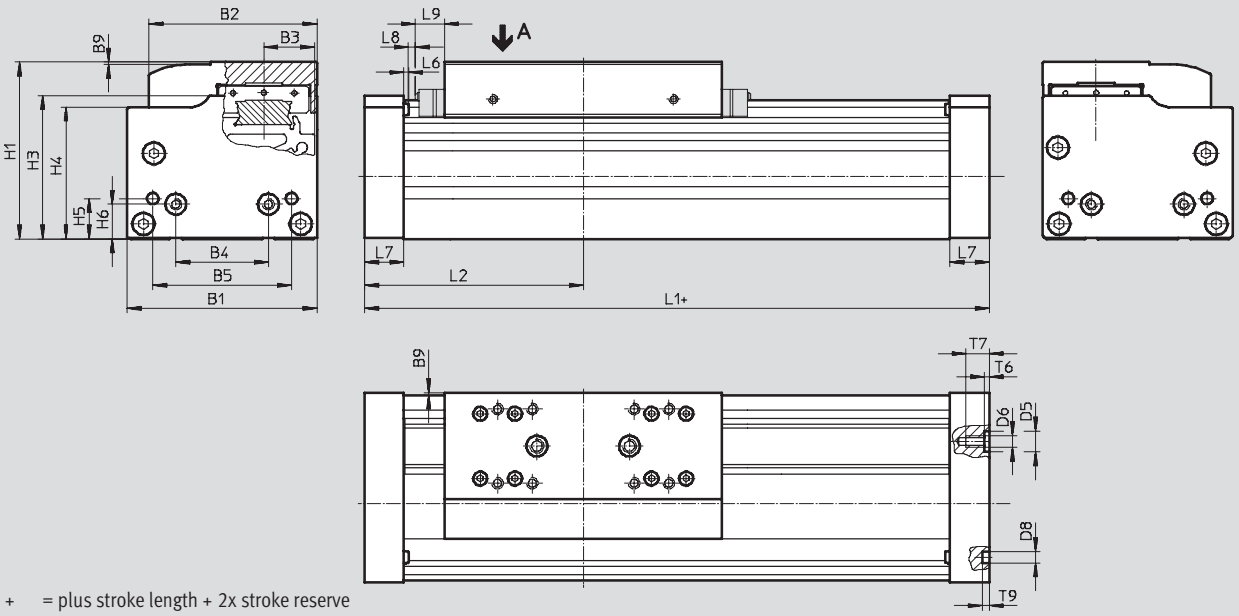
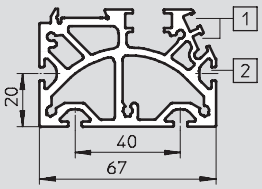
Dimensions Download CAD data ➔ **www.festo.com**



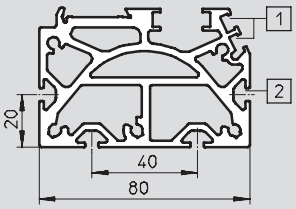
\+ = plus stroke length + 2x stroke reserve
L9 For GK safety distance per end position
For GP size for scraper ➔ 10

Profile

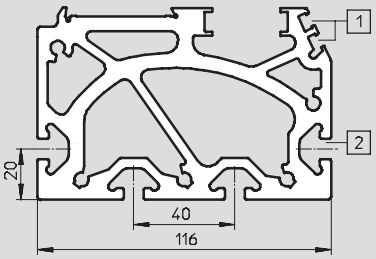
Size 70



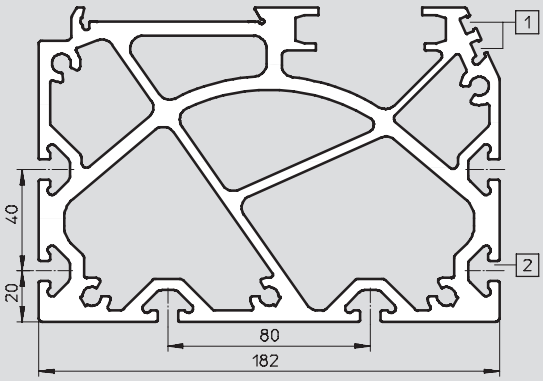
Size 80



Size 120



Size 185



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

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

Size	B1	B2	B3	B4	B5	B9	D5 ∅ 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 ∅ H7	H1	H3	H4	H5	H6	L1 GK
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 GK	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	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

Technical data

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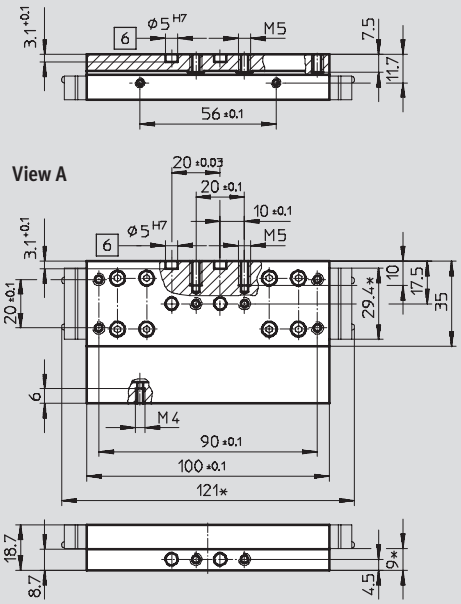
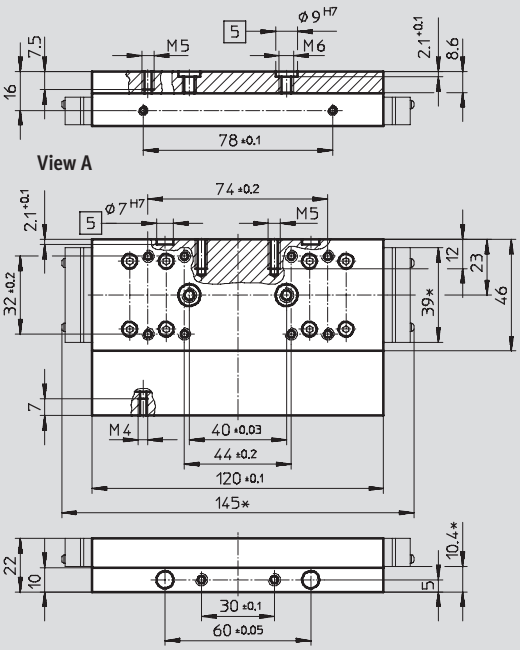
Dimensions Download CAD data ➔ **www.festo.com**

GK – standard slide/GP – standard slide, protected

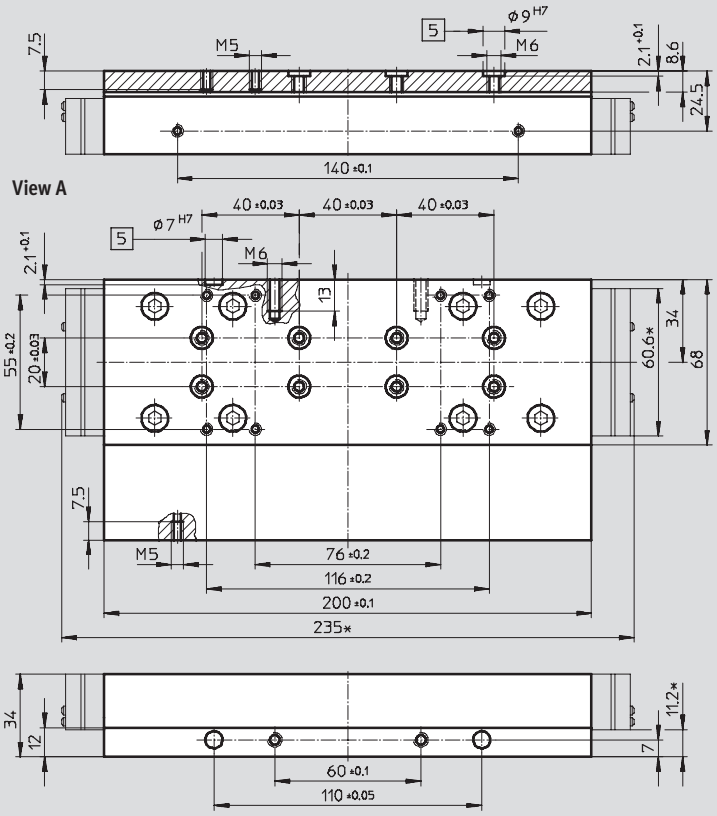
Size 70



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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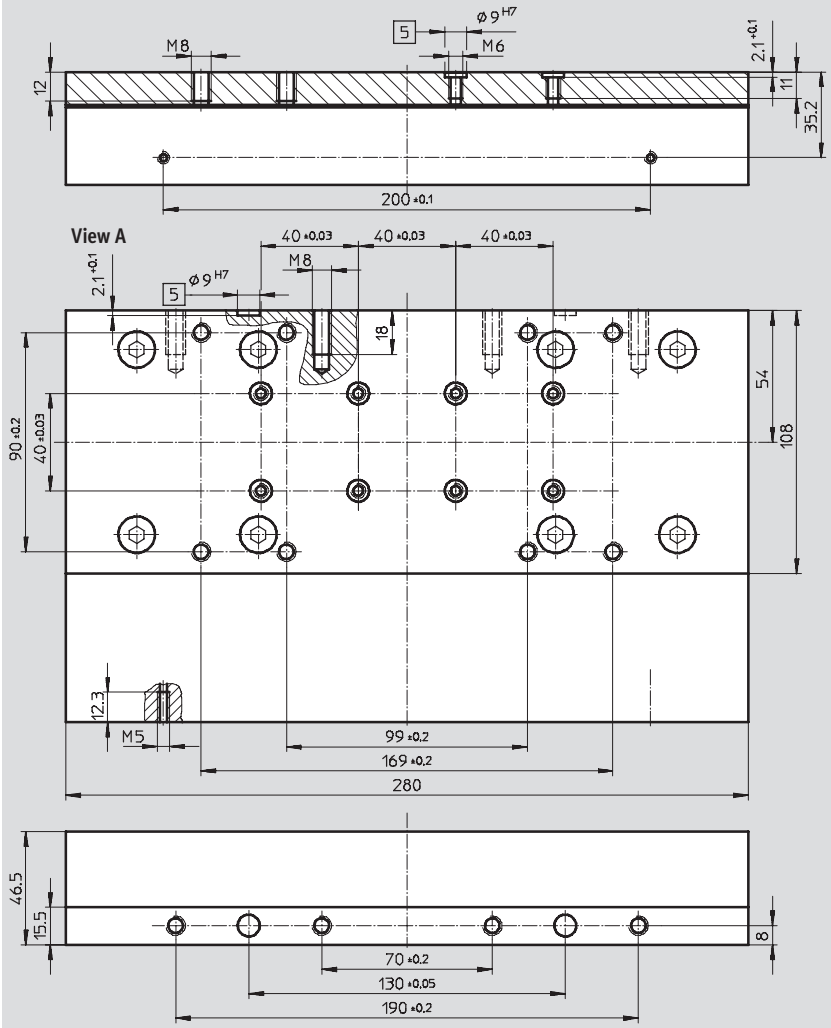
Dimensions Download CAD data ➔ **www.festo.com**

GK – standard slide

Size 185



5 Hole for centring sleeve

Passive guide axes EGC-FA, without drive

Ordering data – Modular products

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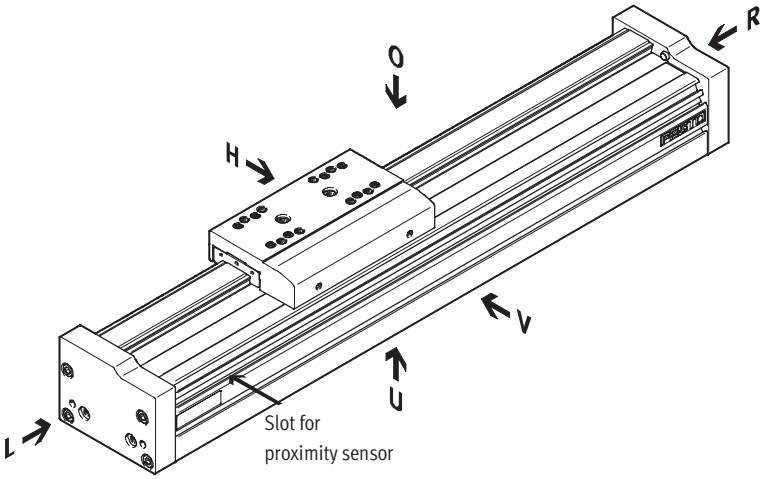
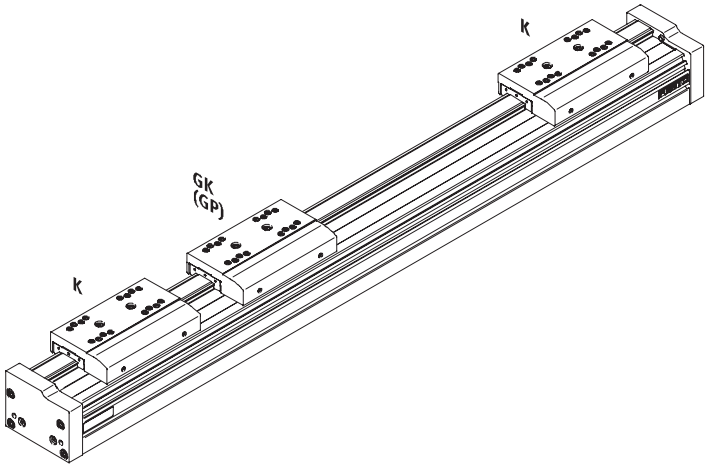
Order code
Mandatory data



O top
U underneath
R right
L left
V front
H rear



Passive guide axes EGC-FA, without drive

Ordering data – Modular products

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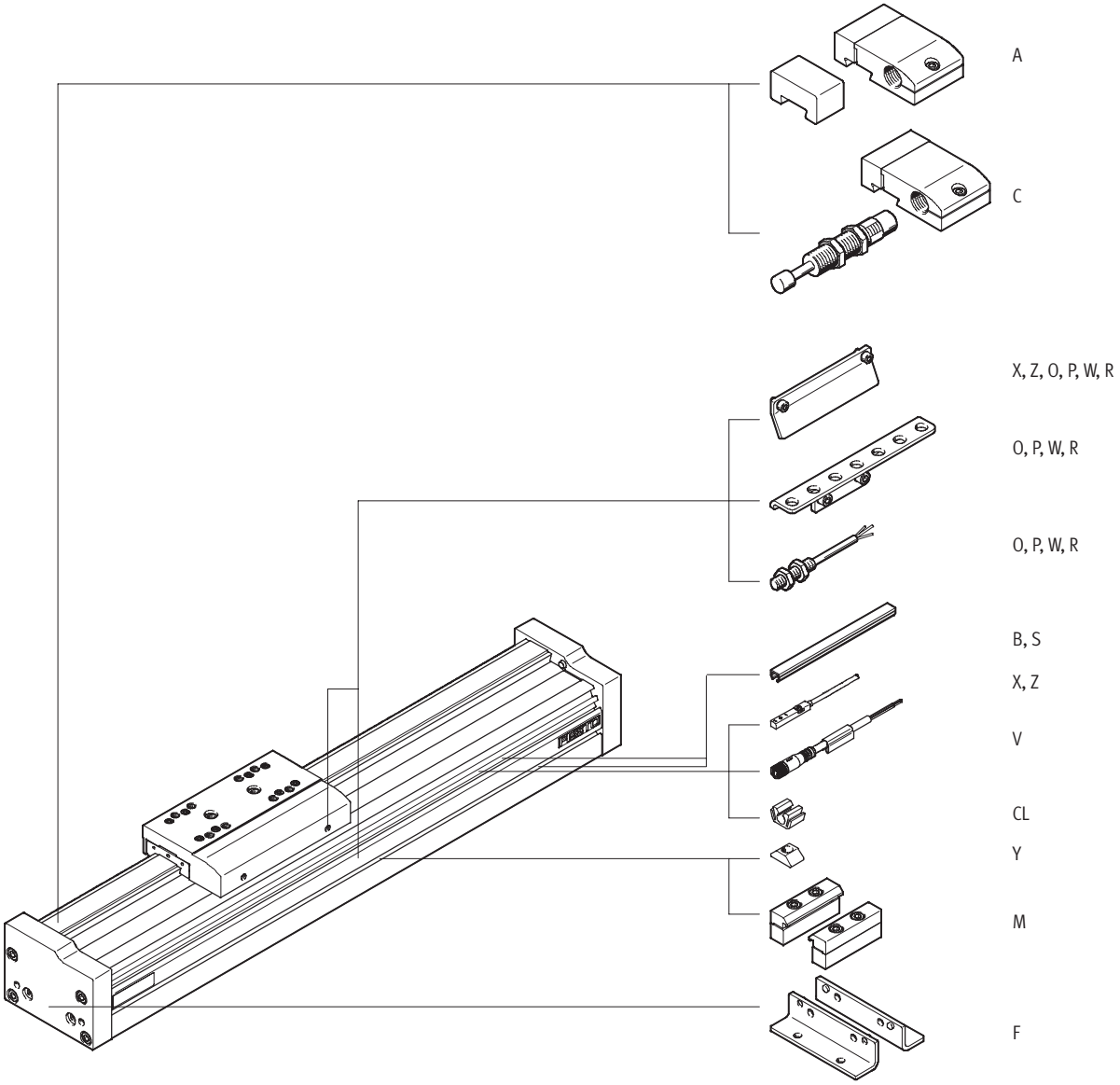
Order code
Accessories



Passive guide axes EGC-FA, without drive

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Ordering data – Modular products

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**		

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

No additional slides (K) can be ordered for long strokes ➔ product configurator. If required, please contact your local Festo office

Order code

	EGC	–		–		–	FA	–		–		–		–	

Passive guide axes EGC-FA, without drive

Ordering data – Modular products

FESTO

Ordering table

Size		70	80	120	185	Conditions	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**		
	Cover, 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. switching lug, N/O contact, cable 7.5 m	1 ... 6					**... X**		
	Proximity sensor (SIES), inductive, slot type 8, PNP, incl. switching lug, N/C contact, cable 7.5 m	1 ... 6					**... Z**		
	Emergency buffer with retainer	1 ... 2				3	**... A**		
	Shock absorber with retainer	1 ... 2				4	**... C**		
	Proximity sensor (SIEN), inductive, M8, PNP, incl. switching lug with sensor retainer, N/O contact, cable 2.5 m	1 ... 99					**...O**		
	Proximity sensor (SIEN), inductive, M8, PNP, incl. switching lug with sensor retainer, N/C contact, cable 2.5 m	1 ... 99					**...P**		
	Proximity sensor (SIEN), inductive, M8, PNP, incl. switching lug with sensor retainer, N/O contact, plug M8	1 ... 99					**...W**		
	Proximity sensor (SIEN), inductive, M8, PNP, incl. switching lug with sensor retainer, 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 user documentation to be included (already available) (operating instructions in pdf format are available free of charge on the Internet at www.festo.com)					**-DN**		

3 ... **A** Emergency buffer with retainer A cannot be combined with slide GP and shock absorber with retainer C

4 ... **C** Shock absorber with retainer C cannot be combined with slide GP and emergency buffer with retainer A

Note

The code X, Z does not include a switching lug in the scope of delivery.
The code O, P, W, R includes one switching lug and max. two sensor brackets in the scope of delivery.

Transfer order code

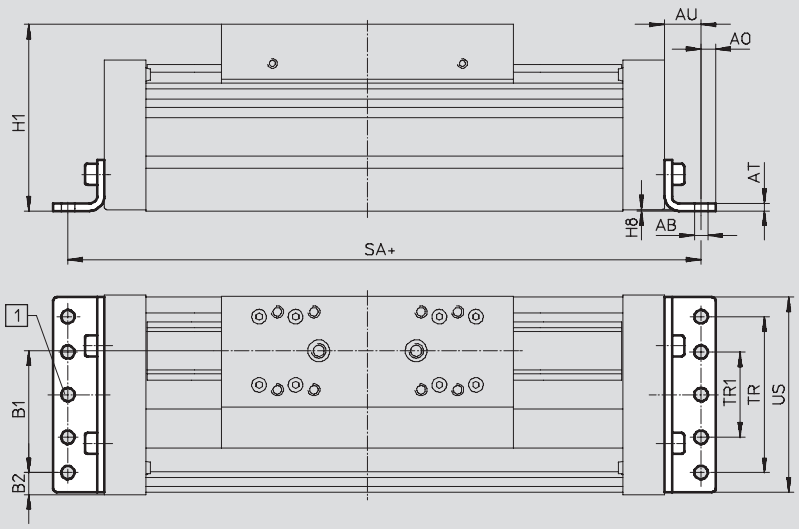
ZUB	–																–	

Passive guide axes EGC-FA, without drive

Accessories

Foot mounting HPE
(order code F)

Material:
Galvanised steel
RoHS-compliant



1 Hole in HPE-120
\+ = plus stroke length + 2x stroke reserve

Dimensions and ordering data

For size	AB ∅	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 GK	TR	TR1	US	Weight [g]	Part No.	Type
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**

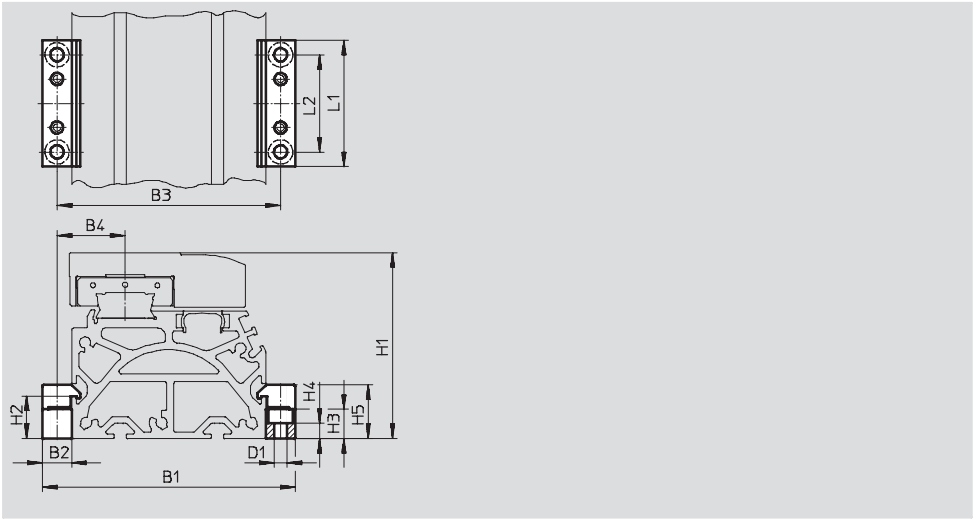
Passive guide axes EGC-FA, without drive

Accessories

FESTO

Profile mounting MUE
(order code M)

Material:
Anodised aluminium
RoHS-compliant



Dimensions and ordering data

For size	B1	B2	B3	B4	D1 ∅	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**

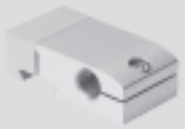
Passive guide axes EGC-FA, without drive

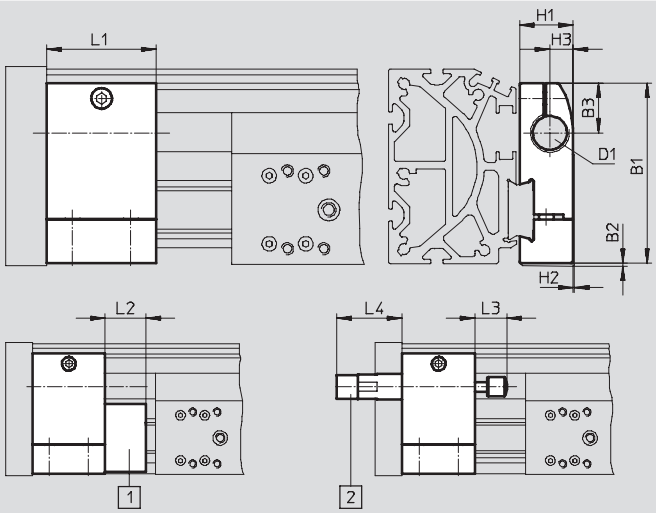
Accessories

Shock absorber retainer KYE
Emergency buffer NPE ➔ 24
Shock absorber YSRW ➔ 24
(order code A or C)

Material:
Anodised aluminium
RoHS-compliant

Cannot be used in combination with the variant GP.





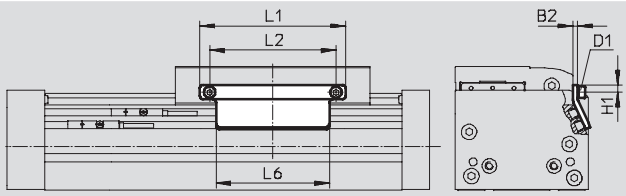
1 Emergency buffer NPE
2 Shock absorber YSRW

Dimensions and ordering data

For size	B1	B2	B3	D1	H1	H2	H3	L1	L2	L3	L4	Weight [g]	Part No.	Type
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 using proximity sensor SIES-8M
(order code X or Z)

Material:
Galvanised steel
RoHS-compliant



Dimensions and ordering data

For size	B2	D1	H1	L1	L2	L6	Weight [g]	Part No.	Type
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

Accessories

Switch lug SF-EGC-2
for sensing using proximity sensor SIEN-M8B (order code O, P, W or R) or SIES-8M (order code X or Z)

Material:
Galvanised steel
RoHS-compliant

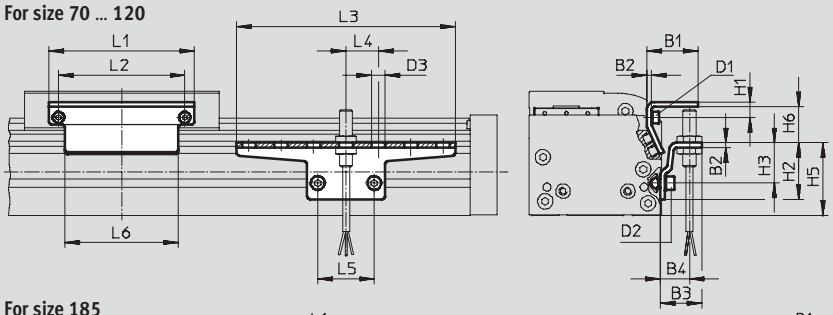
Sensor bracket HWS-EGC
for proximity sensor SIEN-M8B (order code O, P, W or R)

Material:
Galvanised steel
RoHS-compliant

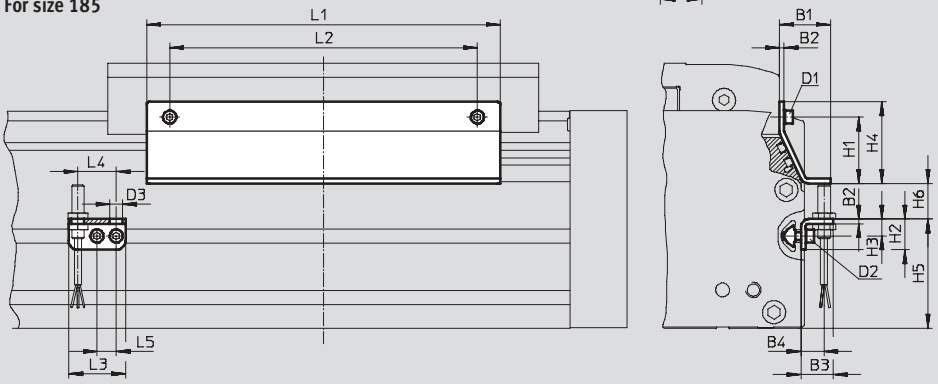
Switch lug SF-EGC-2

Sensor bracket HWS-EGC

For size 70 ... 120



For size 185



Dimensions and ordering data

For size	B1	B2	B3	B4	D1	D2	D3 ∅	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

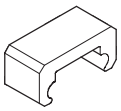
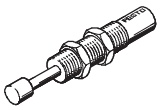
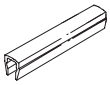
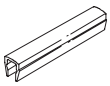
For size	Weight [g]	Part No.	Type
	Switch lug		
70	100	**558 052**	**SF-EGC-2-70**
80	130	**558 053**	**SF-EGC-2-80**
120	280	**558 054**	**SF-EGC-2-120**
185	390	**558 056**	**SF-EGC-2-185**

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	**558 058**	**HWS-EGC-M8**
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					Technical data ➔ Internet: 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**	1
Centring pin/sleeve ZBS/ZBH[2]						
	70	For slide	–	**150 928**	**ZBS-5**	10
	80, 120, 185			**150 927**	**ZBH-9**	10
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 securing the proximity sensor cable	CL	**534 254**	**SMBK-8**	1

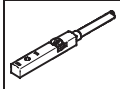
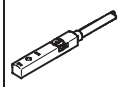
1) Packaging unit quantity
2) 6 centring pins/sleeves included in the scope of delivery of the axis

Passive guide axes EGC-FA, without drive

Accessories

FESTO

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 lengthwise, flush with the cylinder profile	PNP	Cable, 3-wire	7.5	**551 386**	**SIES-8M-PS-24V-K-7,5-OE**
			Plug M8x1, 3-pin	0.3	**551 387**	**SIES-8M-PS-24V-K-0,3-M8D**
		NPN	Cable, 3-wire	7.5	**551 396**	**SIES-8M-NS-24V-K-7,5-OE**
			Plug M8x1, 3-pin	0.3	**551 397**	**SIES-8M-NS-24V-K-0,3-M8D**
N/C contact						
	Insertable in the slot lengthwise, flush with the cylinder profile	PNP	Cable, 3-wire	7.5	**551 391**	**SIES-8M-PO-24V-K-7,5-OE**
			Plug M8x1, 3-pin	0.3	**551 392**	**SIES-8M-PO-24V-K-0,3-M8D**
		NPN	Cable, 3-wire	7.5	**551 401**	**SIES-8M-NO-24V-K-7,5-OE**
			Plug M8x1, 3-pin	0.3	**551 402**	**SIES-8M-NO-24V-K-0,3-M8D**

Ordering data – Inductive proximity sensors M8 — Technical data ➔ Internet: sien

	Electrical connection		Switching output	LED	Cable length [m]	Part No.	Type
	Cable	Plug M8					
N/O contact							
	3-wire	–	PNP	■	2.5	**150 386**	**SIEN-M8B-PS-K-L**
	–	3-pin	PNP	■		**150 387**	**SIEN-M8B-PS-S-L**
N/C contact							
	3-wire	–	PNP	■	2.5	**150 390**	**SIEN-M8B-PO-K-L**
	–	3-pin	PNP	■		**150 391**	**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**