

## Spindle axes EGC-BS-KF, with recirculating ball bearing guide

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# Spindle axes EGC-BS-KF, with recirculating ball bearing guide

Key features

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## At a glance

### Powerful

- Generously sized profiles with an optimised cross section afford maximum rigidity and load capacity
- Speed, acceleration and torque resistance set a new standard

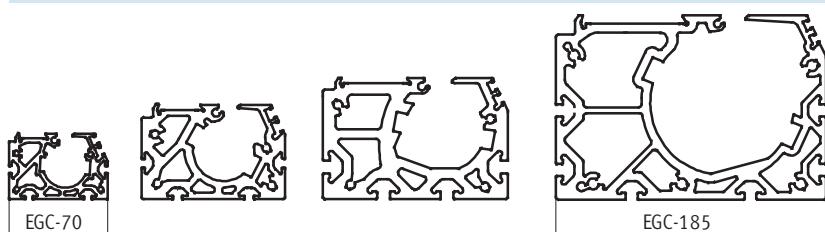
### Economical

- In addition to the technical data, the spindle axis is a winner with its excellent price/performance ratio
- Due to the EGC's high performance it is often possible to use a smaller size

### Versatile

- Different spindle pitches, numerous sizes and variants such as protected guides open up a broad range of applications
- Space-saving position sensing with proximity sensor in the profile slot is possible
- Wide range of options for mounting on drives
- Comprehensive range of mounting accessories for multi-axis combinations
- Spindle support enables maximum travel speed with all stroke lengths (on request)

Comprehensive range for the most varied load conditions



## 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 in the catalogue.

Version	Size	Working stroke [mm]	Speed [m/s]	Repetition accuracy [mm]	Feed force [N]	Guide characteristics				
						Forces and torques				
						Fy [N]	Fz [N]	Mx [Nm]	My [Nm]	Mz [Nm]
<b>Recirculating ball bearing guide</b>										
	70	50 ... 1,000	0.5	±0.02	300	1,850	1,850	16	132	132
	80	50 ... 2,000	1.0	±0.02	600	3,050	3,050	36	228	228
	120	50 ... 2,500	1.5	±0.02	1,300	6,890	6,890	144	680	680
	185	50 ... 3,000	2.0	±0.02	3,000	15,200	15,200	529	1,820	1,820

## Note

PositioningDrives  
sizing software  
[www.festo.com](http://www.festo.com)

## Spindle axes EGC-BS-KF, with recirculating ball bearing guide

Key features

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### Slide variants

Standard slide



Extended slide

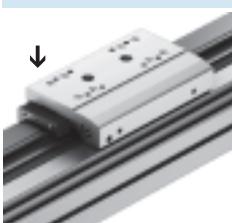


Additional slide



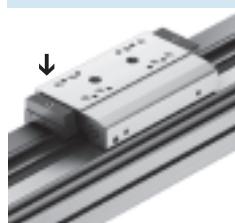
### Guide options

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



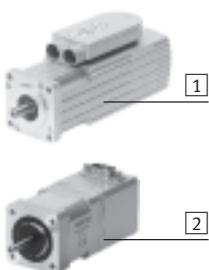
- The lubrication adapter enables the guide to be permanently lubricated using semi or fully automatic relubrication devices
- The adapters are suitable for oils and greases
- Both lubrication adapters must be connected

### Complete system comprising spindle axis, motor, motor controller and motor mounting kit

Spindle axis with recirculating ball bearing guide



#### Motor

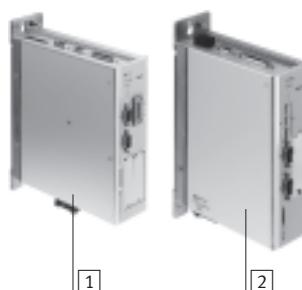


- [1] Servo motor EMMS-AS  
[2] Stepper motor EMMS-ST

#### Note

A range of specially adapted complete solutions is available for the spindle axis EGC and the motors.

#### Motor controller



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

#### Motor mounting kit

Axial kit



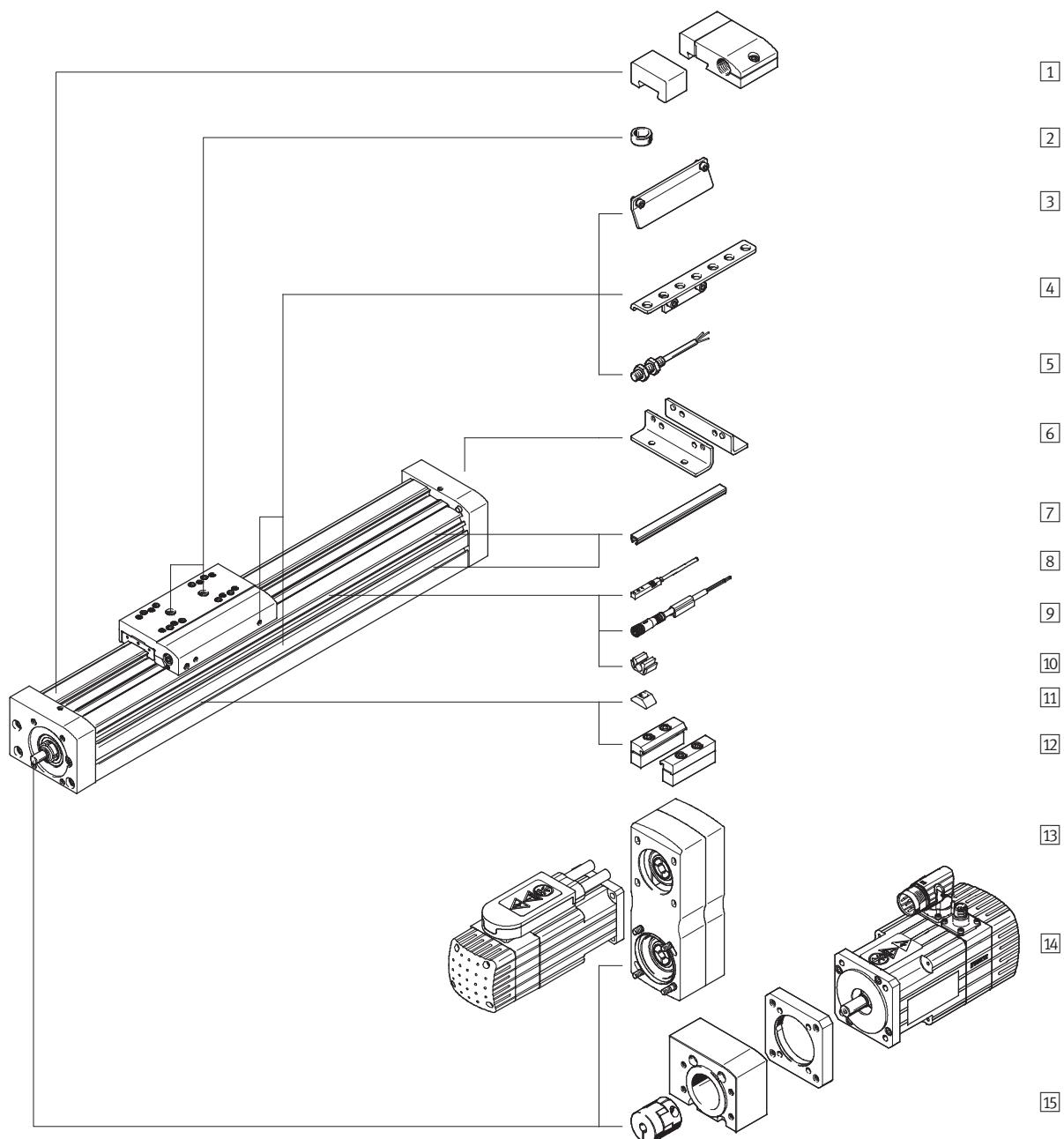
Parallel kit



## Spindle axes EGC-BS-KF, with recirculating ball bearing guide

Peripherals overview

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# Spindle axes EGC-BS-KF, with recirculating ball bearing guide



Peripherals overview

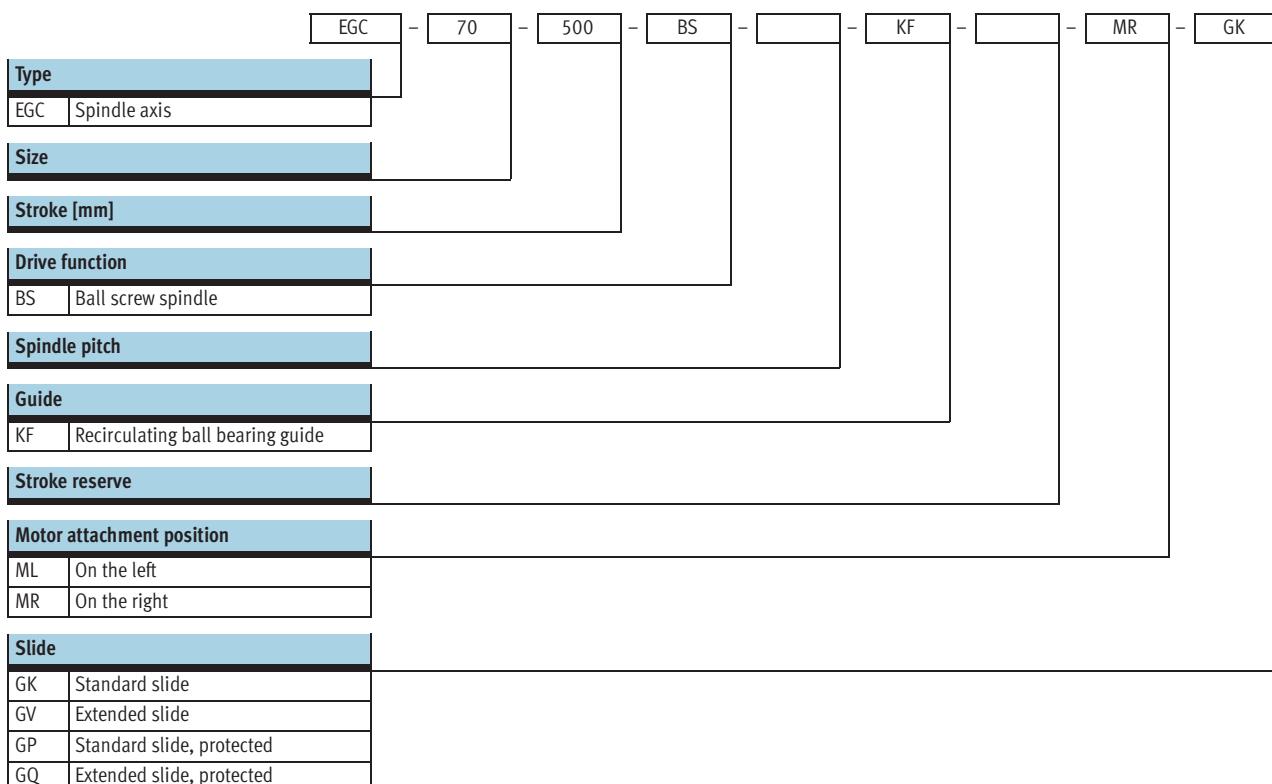
**Variants and accessories**

Type	Brief description	➔ Page/Internet
[1] Emergency buffer with retainer A	For avoiding damage at the end stop in the event of malfunction	38
[2] Centring pin/sleeve ZBS, ZBH	<ul style="list-style-type: none"> <li>• For centring loads and attachments on the slide</li> <li>• 2 centring pins/sleeves included in the scope of delivery for the axis</li> </ul>	40
[3] Switch lug X, Z, O, P, W, R	For sensing the slide position	38
[4] Sensor retainer O, P, W, R	Adapter for mounting the inductive proximity sensors (round design) on the axis	39
[5] Proximity sensor, M8 O, P, W, R	<ul style="list-style-type: none"> <li>• Inductive proximity sensor, round design</li> <li>• With the order code O, P, W, R, 1 switch lug and max. 2 sensor retainers are included in the scope of delivery</li> </ul>	41
[6] Foot mounting F	For mounting the axis on the end cap (only possible on one side)	37
[7] Slot cover B, S	<ul style="list-style-type: none"> <li>• For protecting against ingress of dirt</li> </ul>	40
[8] Proximity sensor, slot type 8 X, Z	<ul style="list-style-type: none"> <li>• Inductive proximity sensor, for slot type 8</li> <li>• For the order code X, Z, 1 switch lug is included in the scope of delivery</li> </ul>	40
[9] Plug socket with cable V	For proximity sensor (order code W and R)	41
[10] Clip CL	For mounting the proximity sensor cable in the slot	40
[11] Slot nut Y	For mounting attachments	40
[12] Profile mounting M	For mounting the axis on the profile	37
[13] Parallel kit EAMM-U	For parallel motor mounting (comprising: housing, clamping component, clamping sleeve, toothed belt pulley, toothed belt)	36
[14] Motor EMMS	Motors specially matched to the axis, with or without brake	34
[15] Axial kit EAMM	For axial motor mounting (comprising: clutch, clutch housing and motor flange)	34
- Passive guide axis EGC-FA	Axis without drive	egc-fa

## Spindle axes EGC-BS-KF, with recirculating ball bearing guide

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Type codes



# Spindle axes EGC-BS-KF, with recirculating ball bearing guide

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Type codes

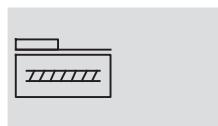
→			-		-		ZUB -	F2MX2Z	-	DN
<b>Additional slide</b>										
KL	Standard, left									
KR	Standard, right									
<b>Lubrication function</b>										
-	Standard									
C	Lubrication adapter									
<b>Accessories enclosed separately</b>										
F	Foot mounting									
...M	Profile mounting									
...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									
...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	Connection cable									
...CL	Cable clip									
<b>Operating instructions</b>										
DN	No									

# Spindle axes EGC-BS-KF, with recirculating ball bearing guide

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Technical data

Function



-N- Size

70 ... 185

-T- Stroke length

50 ... 3,000 mm



## General technical data

Size	70	80	120	185
Spindle pitch	10	10	20	10    25    40
Design	Electromechanical axis with recirculating ball bearing spindle			
Guide	Recirculating ball bearing guide			
Mounting position	Any			
Working stroke	GK/GP [mm]	50 ... 1,000	50 ... 2,000	50 ... 2,500
	GV/GQ [mm]	50 ... 900	50 ... 1,900	50 ... 2,400
Max. feed force $F_x$	[N]	300	600	1,300
No-load torque	[Nm]	0.1	0.1	0.2
at min. travel speed	[m/s]	0.05	0.1	0.1
No-load torque	[Nm]	0.2	0.3	0.45
at max. travel speed	[m/s]	0.5	0.5	1
Max. radial force <sup>1)</sup>	[N]	220	250	500
Max. rotational speed <sup>2)</sup>	[rpm]	3,000	3,000	3,600
Max. acceleration	[m/s <sup>2</sup> ]	15		
Repetition accuracy	[mm]	±0.02		

1) At the drive shaft

2) Rotational speed and speed are stroke-dependent

## Operating and environmental conditions

Ambient temperature	[°C]	-10 ... +60
Protection class		IP40
Duty cycle	[%]	100

## Weight [kg]

Size	70	80	120	185
Basic weight with 0 mm stroke <sup>1)</sup>	GK/GP	1.5	2.7	12.5
	GV/GQ	2	3.5	14.4
Additional weight per 1,000 mm stroke		5	8	19
Moving load	GK/GP	0.4	0.74	2.4
	GV/GQ	0.6	0.95	2.9
Additional slide	KL/KR	0.3	0.55	2
				6

1) Incl. slide

# Spindle axes EGC-BS-KF, with recirculating ball bearing guide

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Technical data

Spindle					
Size	70	80	120	185	
Diameter [mm]	12	15	25	40	
Pitch [mm/rev.]	10	10	20	10	25
					40

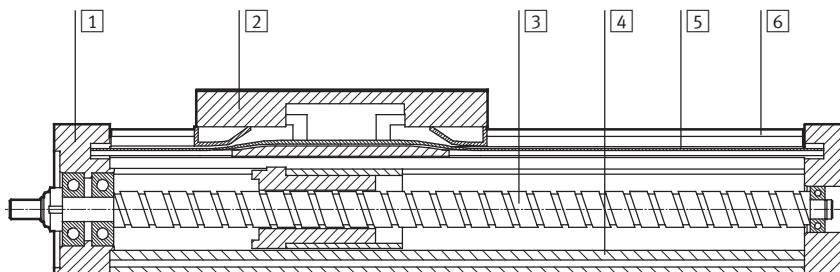
Mass moment of inertia						
Size	70	80	120	185		
Spindle pitch	10	10	20	10	25	40
$J_O$	GK [kg mm <sup>2</sup> ] GV [kg mm <sup>2</sup> ]	1.99 3.41	5.2 8.67	5.2 8.68	64.46 92	64.46 92
$J_S$ per metre stroke	[kg mm <sup>2</sup> /m]	14.2	34.6	34.6	275.6	275.6
$J_L$ per kg effective load	[kg mm <sup>2</sup> /kg]	2.53	2.53	10.13	2.53	15.83
$J_W$ Additional slide	GK [kg mm <sup>2</sup> ] GV [kg mm <sup>2</sup> ]	1.04 1.48	1.86 2.34	7.46 9.35	6.09 7.34	38.06 45.85
						348.87 399.08

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

$$J_A = J_O + J_W + J_S \times \text{working stroke [m]} + J_L \times m_{\text{effective load}} [\text{kg}]$$

## Materials

Sectional view



Axis	
1 End cap	Anodised wrought aluminium alloy
2 Slide	Anodised wrought aluminium alloy
3 Spindle	Steel
4 Profile	Anodised aluminium
5 Cover band	Polyurethane
6 Guide rail	High-alloy steel
Note on materials	RoHS-compliant

# Spindle axes EGC-BS-KF, with recirculating ball bearing guide

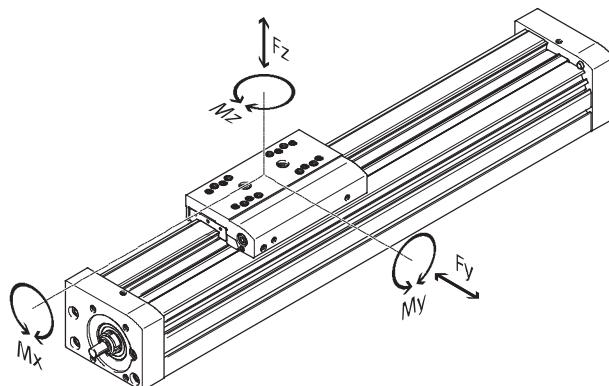
Technical data

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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:

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

<b>Permissible forces and torques</b>					
Size	70	80	120	185	
F <sub>y</sub> <sub>max.</sub> [N]	1,850	3,050	6,890	15,200	
F <sub>z</sub> <sub>max.</sub> [N]	1,850	3,050	6,890	15,200	
M <sub>x</sub> <sub>max.</sub> [Nm]	16	36	144	529	
M <sub>y</sub> <sub>max.</sub> GK/GP [Nm]	51	97	380	1,157	
M <sub>z</sub> <sub>max.</sub> GK/GP [Nm]	51	97	380	1,157	
M <sub>y</sub> <sub>max.</sub> GV/GQ [Nm]	132	228	680	1,820	
M <sub>z</sub> <sub>max.</sub> GV/GQ [Nm]	132	228	680	1,820	

<b>Basic load ratings</b>						
Size	70	80	120	185		
Spindle pitch	10	10	20	10	25	40
Ball screw						
Dynamic C <sub>dyn,BS</sub> [N]	4,000	6,820	7,480	16,000	13,700	36,200

# Spindle axes EGC-BS-KF, with recirculating ball bearing guide

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Technical data

## 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

These values are only theoretical. Consultation with your local contact person at Festo is mandatory for load

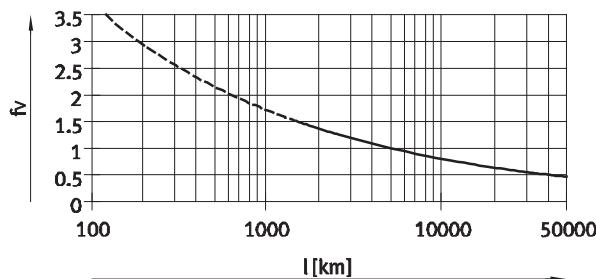
comparison factors  $f_v$  greater than 1.5.

## 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. 1,500 km. 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 5,000 km.



## Note

PositioningDrives  
sizing software  
[www.festo.com](http://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.

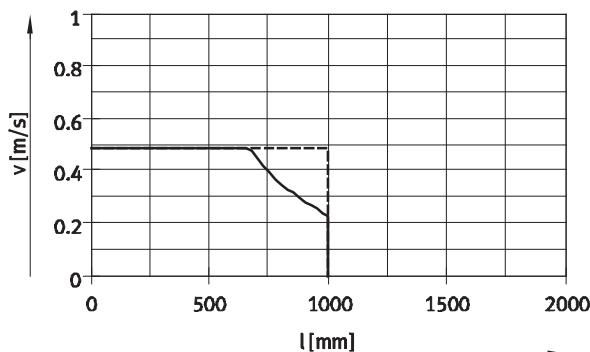
# Spindle axes EGC-BS-KF, with recirculating ball bearing guide

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Technical data

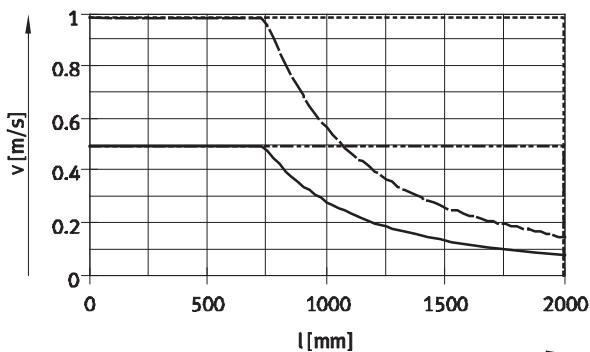
Speed v as a function of working stroke l

EGC-70



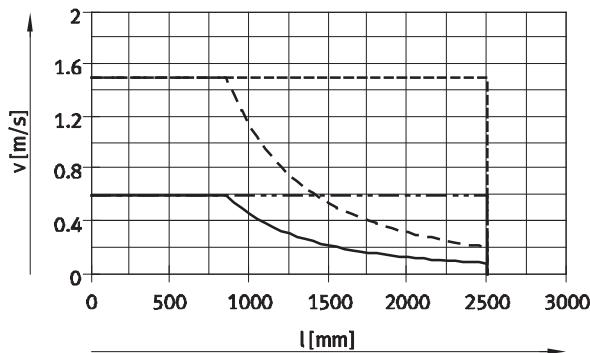
— EGC-70-10P without spindle support  
- - - EGC-70-10P with spindle support

EGC-80



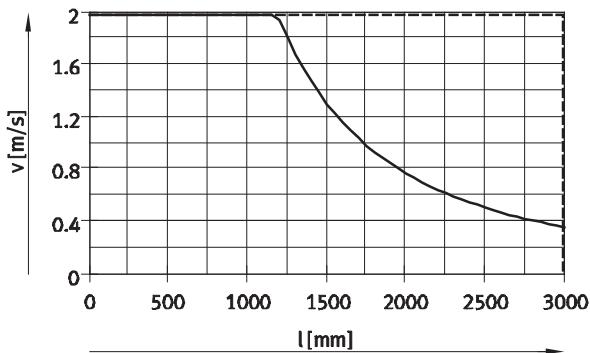
— EGC-80-10P without spindle support  
- - - EGC-80-10P with spindle support  
— EGC-80-20P without spindle support  
- - - EGC-80-20P with spindle support

EGC-120



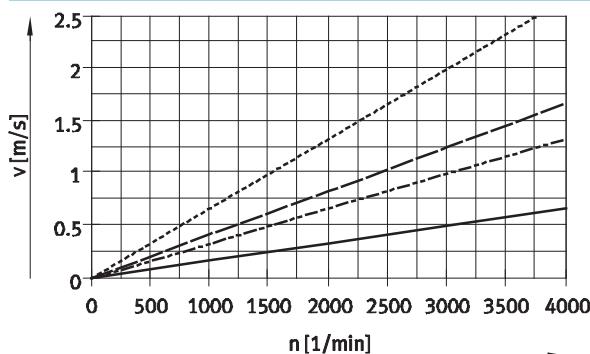
— EGC-120-10P without spindle support  
- - - EGC-120-10P with spindle support  
— EGC-120-25P without spindle support  
- - - EGC-120-25P with spindle support

EGC-185



— EGC-185-40P without spindle support  
- - - EGC-185-40P with spindle support

Speed v as a function of rotational speed n



## Note

Rotational speed is stroke-dependent.  
Note maximum rotational speed.

— EGC-70/-80-10P/-120-10P  
- - - EGC-80-20P  
— EGC-120-25P  
- - - EGC-185

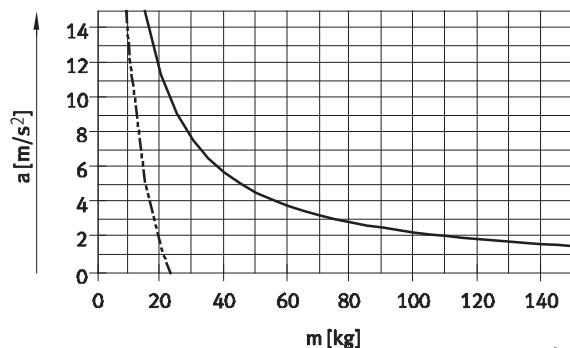
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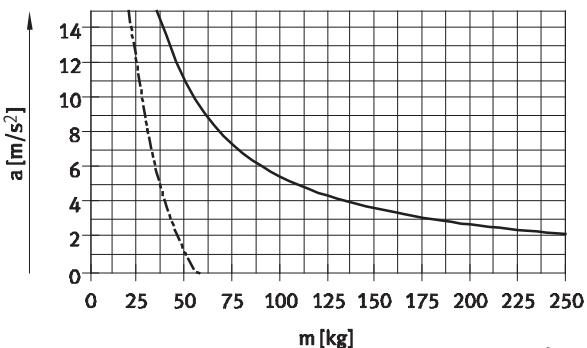
Technical data

Maximum acceleration  $a$  as a function of applied load  $m$

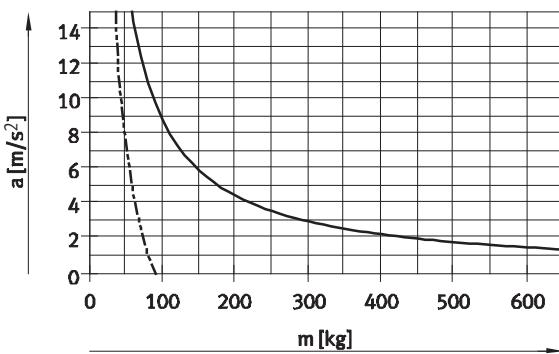
EGC-70



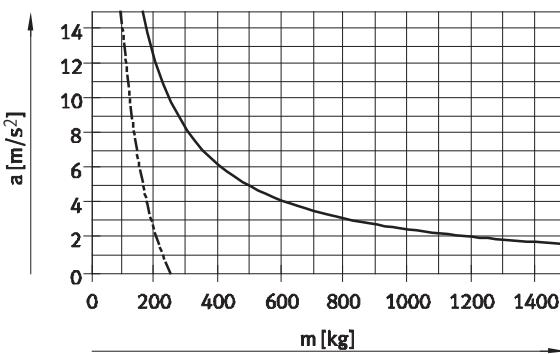
EGC-80



EGC-120



EGC-185

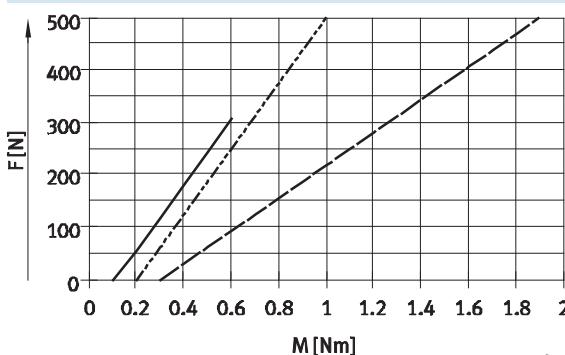


— Horizontal mounting  
position

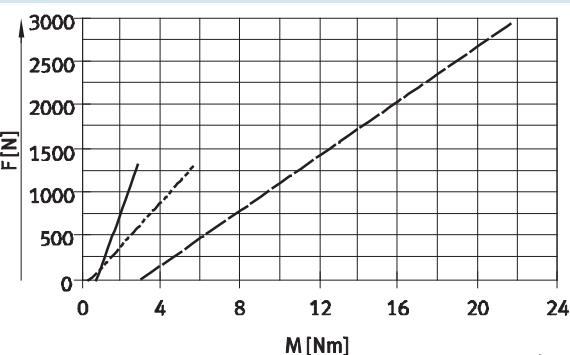
— Vertical mounting position

Theoretical feed force  $F$  as a function of input torque  $M$

EGC-70/-80



EGC-120/-185



# Spindle axes EGC-BS-KF, with recirculating ball bearing guide

Technical data

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## Stroke reserve

Stroke length	Stroke reserve					
The selected stroke corresponds in principle to the required working stroke. The variants GK/GV do not have a wiper seal on the guide. These variants therefore additionally have a safety distance between the drive cap and slide that is not designated as part of the working stroke.	<p>A safety distance (similar to GK/GV) between the drive cap and slide can be defined for the variants GP/GQ and GK-C/GV-C using the modular product system via the "stroke reserve" feature. With the variants GK/GV, the stroke reserve and safety distance are added for each end position.</p> <ul style="list-style-type: none"> <li>The stroke reserve length can be freely selected</li> <li>The sum of the stroke length and 2x stroke reserve must not exceed the maximum working stroke</li> </ul>					
Size	70	80	120	185		
Spindle pitch	10	10	10	25	40	
L9 = safety distance with GK/GV (per end position) [mm]	10.5	13	13	18	18	21

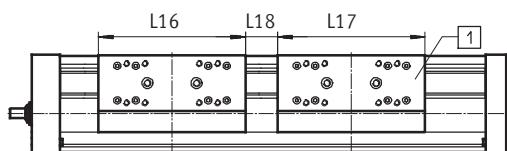
## Working stroke reduction

With standard slide GK/GP / extended slide GV/GQ with additional slide KL/KR

- For a spindle axis with additional slide, the working stroke is reduced by the length of the additional slide and the distance between both slides
- If the variant GP/GQ is ordered, the additional slide is also protected
- If the variant GV/GQ is ordered, the additional slide is not extended
- If the variant GK-C/GV-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-BS-...-GK-KR

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	
	GK/GV	GP/GQ	GK/GV	GP/GQ or GK-C/GV-C	GK/GV	GP/GQ or GK-C/GV-C	GK/GV	GK-C/GV-C
Length L17 [mm]	100	121	120	146	200	236	280	322
Min. distance between the slides L18 [mm]	-	21	-	26	-	36	-	42

## Working stroke reduction per side

With integrated emergency buffer NPE and shock absorber retainer KYE

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

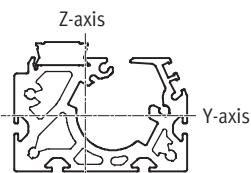
Size	70	80	120	185
With emergency buffer [mm]	43	68	98	133

# Spindle axes EGC-BS-KF, with recirculating ball bearing guide

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Technical data

## 2nd moment of area

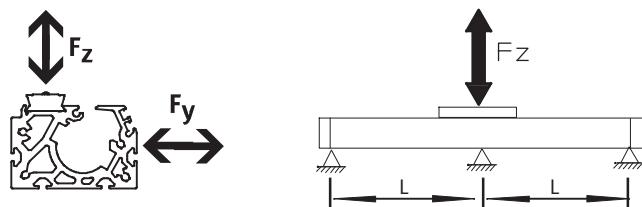


Size	70	80	120	185
ly [mm <sup>4</sup> ]	4.19x10 <sup>5</sup>	9.81x10 <sup>5</sup>	5.01x10 <sup>6</sup>	2.61x10 <sup>7</sup>
lz [mm <sup>4</sup> ]	5.78x10 <sup>5</sup>	1.32x10 <sup>6</sup>	5.82x10 <sup>6</sup>	2.6x10 <sup>7</sup>

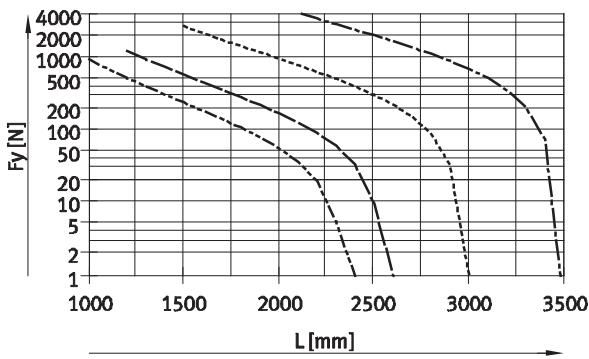
## Maximum permissible support span L (without profile mounting) as a function of force F

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

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

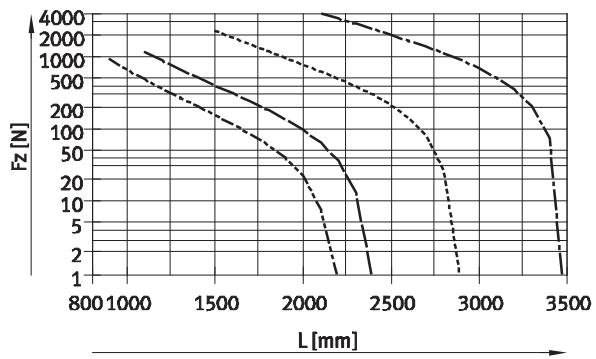


## Force Fy



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

## Force Fz



## 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

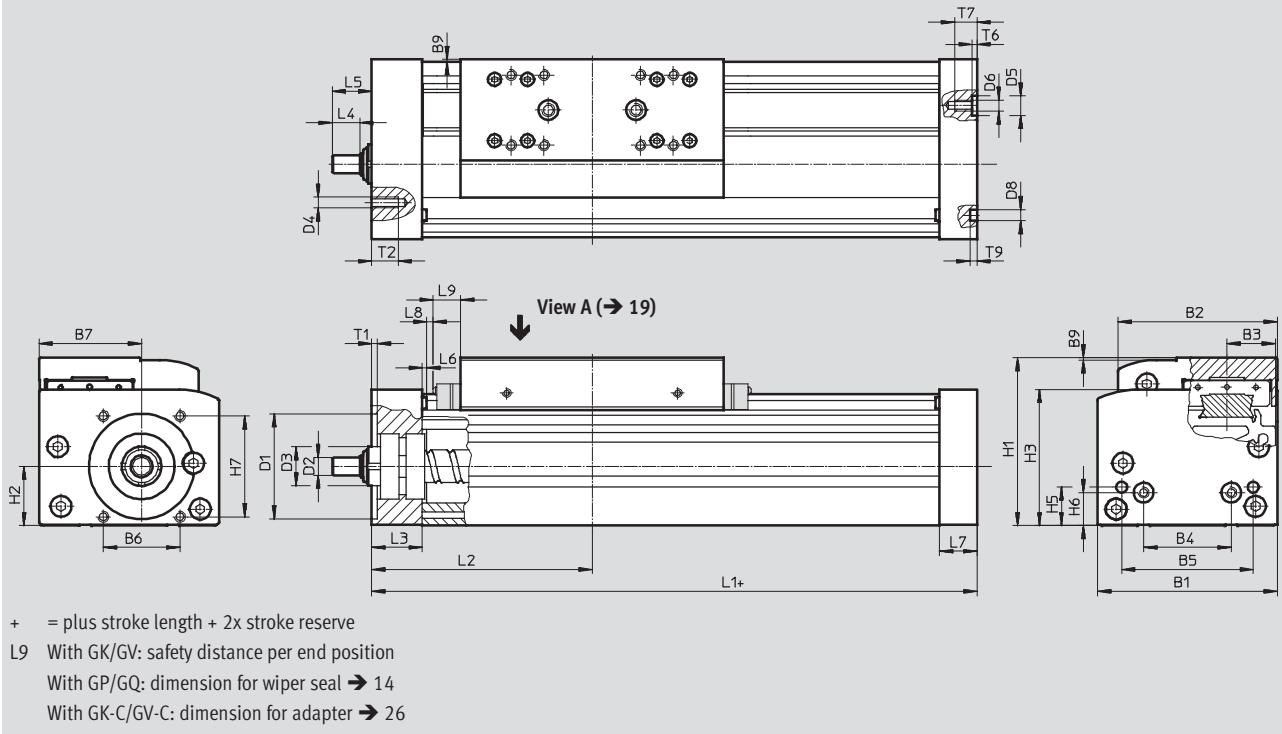
# Spindle axes EGC-BS-KF, with recirculating ball bearing guide

FESTO

Technical data

## Dimensions

Download CAD Data → [www.festo.com/us/cad](http://www.festo.com/us/cad)



Size	Variant	Stroke	B1	B2	B3	B4	B5	B6	B7	B9	D1 ∅ H7	D2 ∅ h7	D3
70	GK/GP	50 ... 1,000	69	58.6	16.5	30	45	29	39	1	38	6	=C13
	GV/GQ	50 ... 900											
80	GK/GP	< 1,477	82	72.6	22	40	60	35	46.75	1	48	8	Ø18
		≥ 1,477											
	GV/GQ	< 1,377											
		≥ 1,377											
120	GK/GP	< 1,704	120	107	33	80	40	64	78	1	62	12	Ø28
		≥ 1,704											
	GV/GQ	< 1,604											
		≥ 1,604											
185	GK/GP	< 2,361	186	169	53	120	80	80	114	1	95	25	Ø44
		≥ 2,361											
	GV/GQ	< 2,261											
		≥ 2,261											

# Spindle axes EGC-BS-KF, with recirculating ball bearing guide

FESTO

Technical data

Size	Variant	Stroke	D4	D5 ∅ H7	D6	D8 ∅ H7	H1	H2	H3	H5	H6	H7	L1	L2
70	GK/GP	50 ... 1,000	M5	–	M5	5	64	22.5	50.5	13	13	36	168	86.5
	GV/GQ	50 ... 900											268	136.5
80	GK/GP	< 1,477	M5	9	M5	5	76.5	27	62	17.5	15	46	196	101
		≥ 1,477											236	121
	GV/GQ	< 1,377											296	151
		≥ 1,377											336	171
120	GK/GP	< 1,704	M6	–	M8	9	111.5	42.5	89.5	22	22	54	309	156
		≥ 1,704											369	186
	GV/GQ	< 1,604											409	206
		≥ 1,604											469	236
185	GK/GP	< 2,361	M8	–	M10	9	172.5	65.2	141.5	25	25	80	412	209
		≥ 2,361											512	259
	GV/GQ	< 2,261											512	259
		≥ 2,261											612	309

Size	Variant	Stroke	L3	L4	L5	L6	L7	L8	L9	T1	T2	T6	T7	T9
70	GK/GP	50 ... 1,000	21	8	14	1.8	16	3	10.5	2.5	12	–	10	3.1
	GV/GQ	50 ... 900												
80	GK/GP	< 1,477	23	12.5	18	2	17	3	13	2.5	12	2.1	10	3.1
		≥ 1,477												
	GV/GQ	< 1,377												
		≥ 1,377												
120	GK/GP	< 1,704	33	17.5	25.5	2	30	3	18	3	15	–	16	2.1
		≥ 1,704												
	GV/GQ	< 1,604												
		≥ 1,604												
185	GK/GP	< 2,361	43	23	30.5	2	37	3	21	3	20	–	20	2.1
		≥ 2,361												
	GV/GQ	< 2,261												
		≥ 2,261												

#### Note

To avoid distortions in the slide, the bearing surfaces of the attachments must maintain a flatness of at least 0.01 mm.

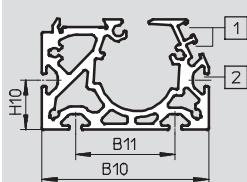
# Spindle axes EGC-BS-KF, with recirculating ball bearing guide

FESTO

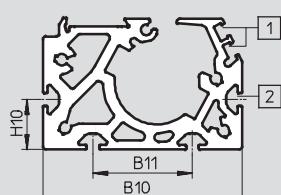
Technical data

## Profile

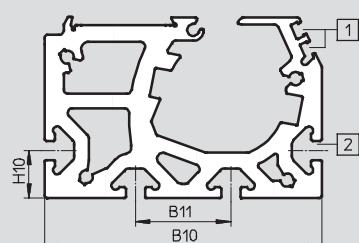
Size 70



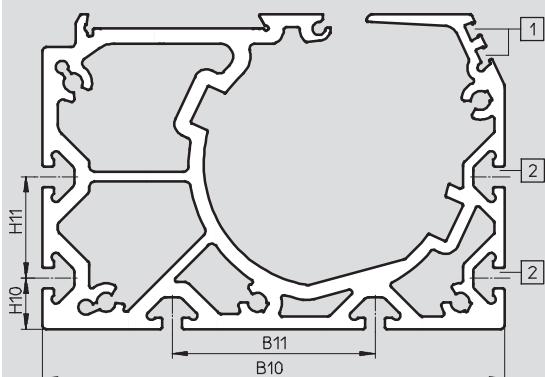
Size 80



Size 120



Size 185



[1] 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

# Spindle axes EGC-BS-KF, with recirculating ball bearing guide

FESTO

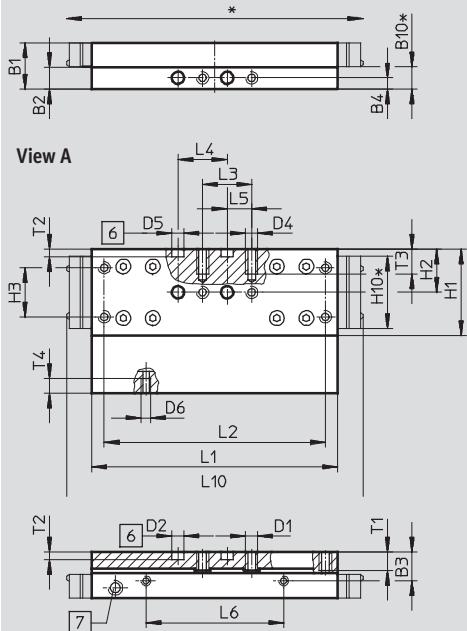
Technical data

## Dimensions

GK – Standard slide/GP – Standard slide, protected

Download CAD Data → [www.festo.com/us/cad](http://www.festo.com/us/cad)

### Size 70



[5] Hole for centring sleeve

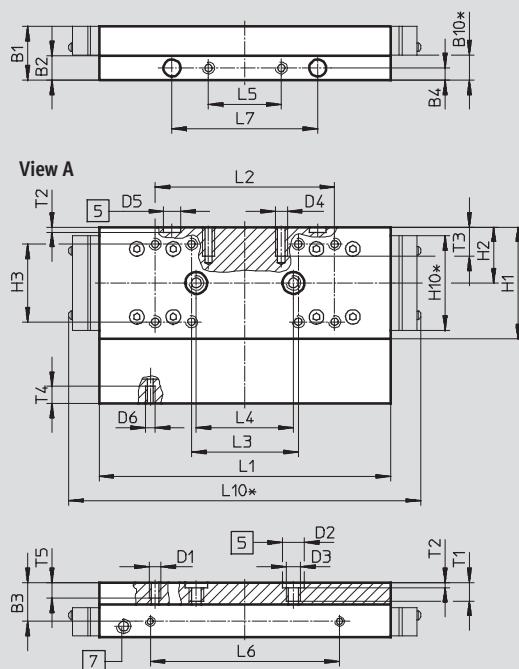
[6] Hole for centring pin

[7] Lubricating hole for spindle,

M6 threaded connection, 8 mm deep

\* Protected version

### Size 80



Size	B1	B2	B3	B4	B10*	D1	D2 ∅ H7	D3	D4	D5 ∅ H7	D6	H1	H2	H3
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

Size	H10*	L1	L2	L3	L4	L5	L6	L7	L10*	T1	T2	T3	T4	T5
			±0.1			±0.03		±0.1			+0.1			
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

\* Protected version

# Spindle axes EGC-BS-KF, with recirculating ball bearing guide

FESTO

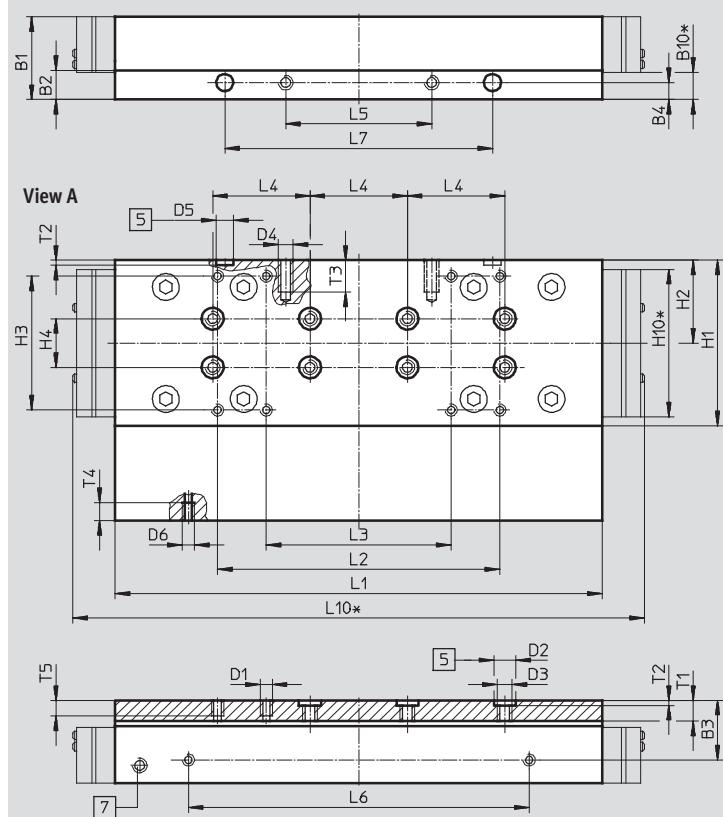
Technical data

## Dimensions

GK – Standard slide/GP – Standard slide, protected

Download CAD Data ➔ [www.festo.com/us/cad](http://www.festo.com/us/cad)

### Size 120



- [5] Hole for centring sleeve
- [7] Lubricating hole for spindle,  
M6 threaded connection, 8 mm deep
- \* Protected version

Size	B1	B2	B3	B4	B10*	D1	D2 ∅ H7	D3	D4	D5 ∅ H7	D6	H1	H2	H3	H4
120	34	12	24.5	7	11.2	M5	9	M6	M6	7	M5	68	34	55 ±0.2	20

Size	H10*	L1	L2	L3	L4	L5	L6	L7	L10*	T1	T2	T3	T4	T5
120	60.6	200	116	76	40	60	140	110	235	8.6	2.1	13	7.5	7.5

\* Protected version

# Spindle axes EGC-BS-KF, with recirculating ball bearing guide

FESTO

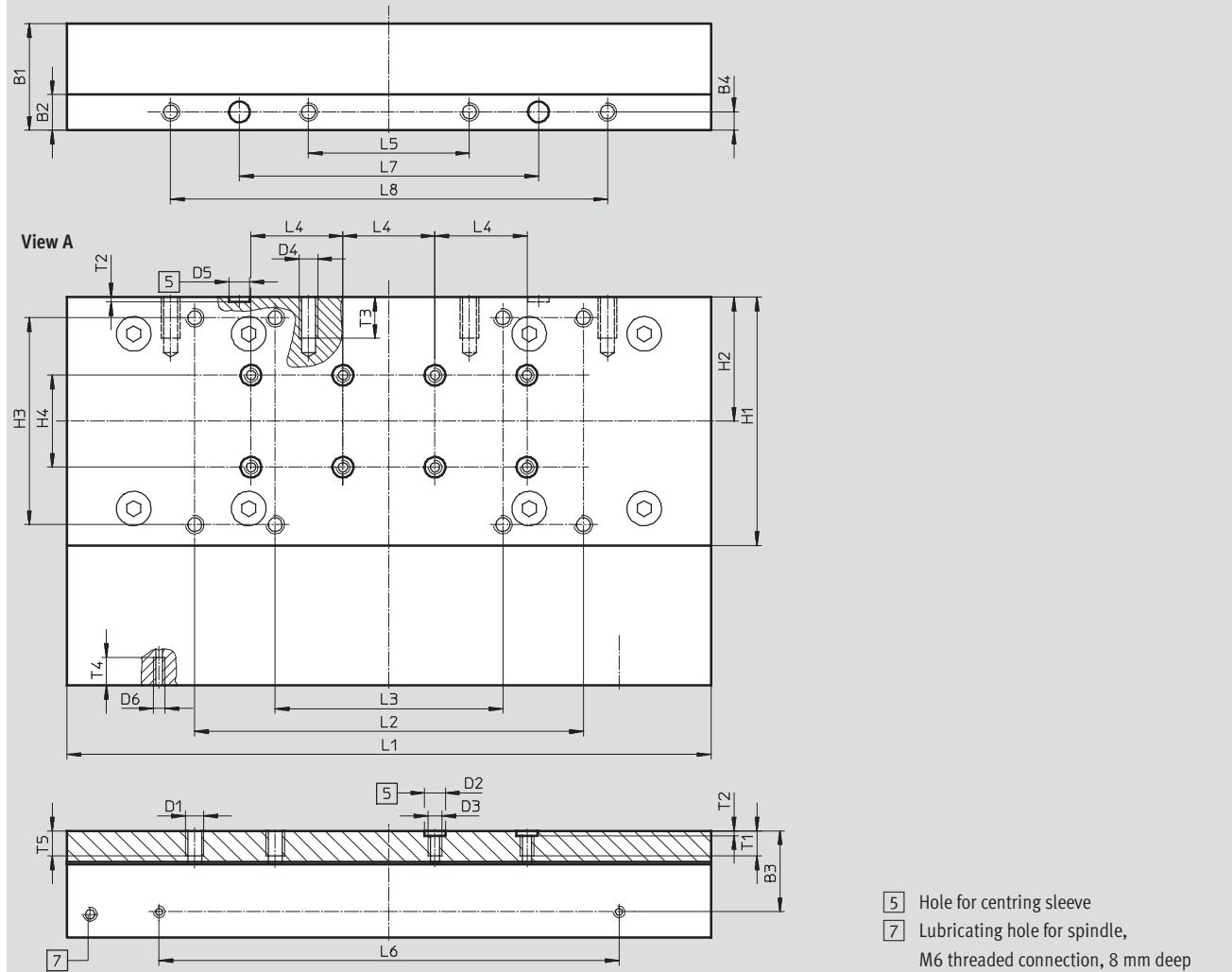
Technical data

## Dimensions

GK – Standard slide

Download CAD Data → [www.festo.com/us/cad](http://www.festo.com/us/cad)

### Size 185



Size	B1	B2	B3	B4	D1	D2 ∅ H7	D3	D4	D5 ∅ H7	D6	H1	H2	H3	H4
185	46.5	15.5	35.2	8	M8	9	M6	M8	9	M5	108	54	90	40

Size	L1	L2	L3	L4	L5	L6	L7	L8	T1	T2	T3	T4	T5
185	±0.1	±0.2	±0.2	±0.03	±0.2	±0.1	±0.05	±0.2	+0.1	2.1	18	12.3	12

# Spindle axes EGC-BS-KF, with recirculating ball bearing guide

FESTO

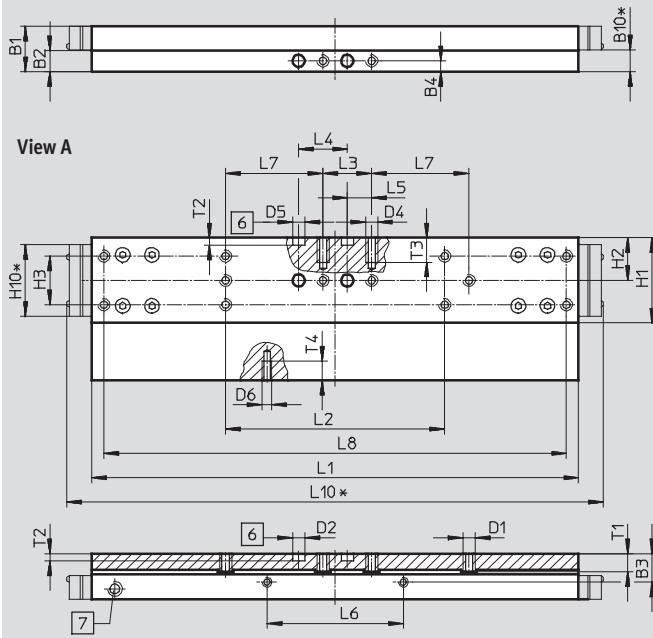
Technical data

## Dimensions

GV – Extended slide/GQ – Extended slide, protected

Download CAD Data ➔ [www.festo.com/us/cad](http://www.festo.com/us/cad)

### Size 70



- [6] Hole for centring pin
- [7] Lubricating hole for spindle,  
M6 threaded connection, 8 mm deep
- \* Protected version

Size	B1	B2	B3	B4	B10*	D1	D2 ∅ H7	D4	D5 ∅ H7
70	18.7	8.7	11.7	4.5	9	M5	5	M5	5

Size	D6	H1	H2	H3	H10*	L1	L2	L3	L4
70	M4	35	17.5	20	29.4	200	90	20	20

Size	L5 ±0.1	L6 ±0.1	L7 ±0.1	L8 ±0.2	L10* 221	T1 7.5	T2 +0.1	T3 3.1	T4 10
70	10	56	40	190					6

\* Protected version

## **Spindle axes EGC-BS-KF, with recirculating ball bearing guide**

FESTO

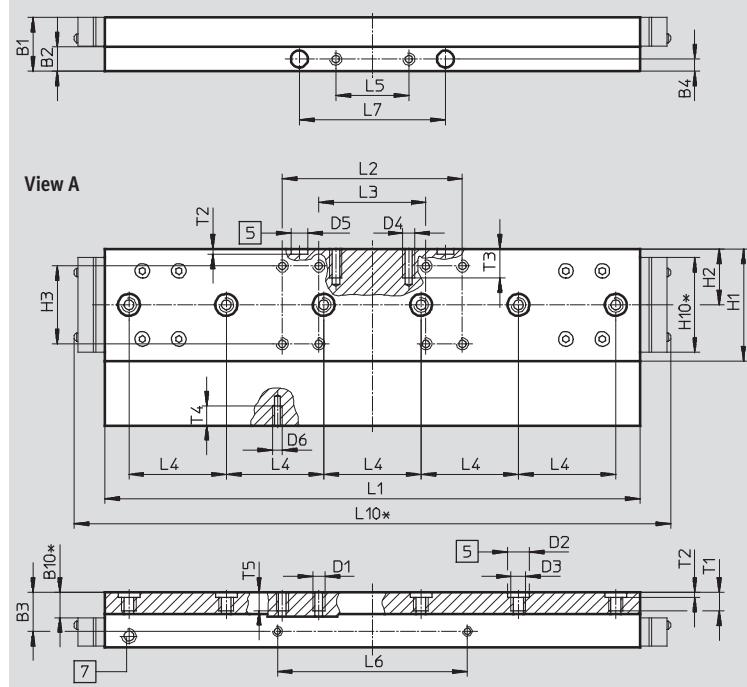
## Technical data

## Dimensions

GV – Extended slide/GQ – Extended slide, protected

Download CAD Data → [www.festo.com/us/cad](http://www.festo.com/us/cad)

Size 80



Size	B1	B2	B3	B4	B10*	D1	D2	D3	D4	D5
							Ø			Ø
80	22	10	16	5	10.4	M5	H7	M6	M5	H7

Size	D6	H1	H2	H3	H10*	L1	L2	L3	L4
				±0.2		±0.1	±0.2	±0.2	±0.03
80	M4	46	23	32	39	220	74	44	40

Size	L5 ±0.1	L6 ±0.1	L7 ±0.05	L10* 245	T1 8.6	T2 +0.1	T3 12	T4 7	T5 7.5
80	30	78	60						

\* Protected version

# Spindle axes EGC-BS-KF, with recirculating ball bearing guide

FESTO

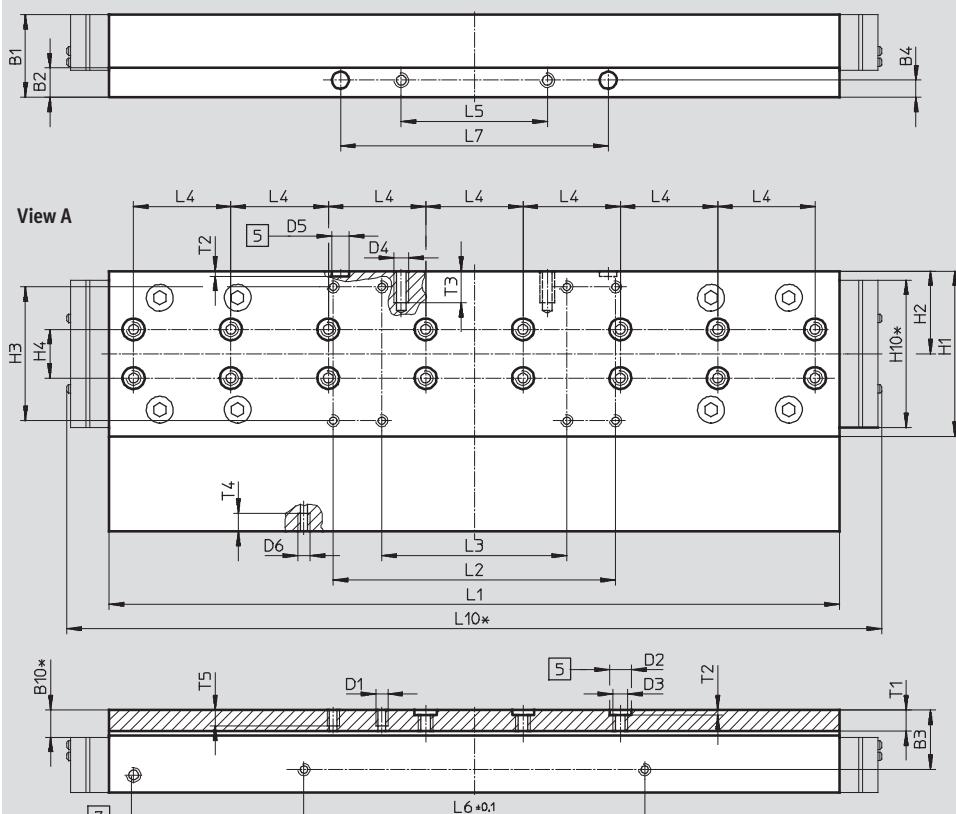
Technical data

## Dimensions

GV – Extended slide/GQ – Extended slide, protected

Download CAD Data ➔ [www.festo.com/us/cad](http://www.festo.com/us/cad)

### Size 120



[5] Hole for centring sleeve

[7] Lubricating hole for spindle,

M6 threaded connection, 8 mm deep

\* Protected version

Size	B1	B2	B3	B4	B10*	D1	D2 ∅ H7	D3	D4	D5 ∅ H7
120	34	12	24.5	7	11.2	M5	9	M6	M6	7

Size	D6	H1	H2	H3	H4	H10*	L1	L2	L3	L4
120	M5	68	34	55 ±0.2	20	±0.03	60.6	300	116 ±0.2	76 ±0.2

Size	L5	L6	L7	L8	L10*	T1	T2	T3	T4	T5
120	±0.1	±0.1		±0.2		335	8.6	2.1	13	7.5

\* Protected version

# Spindle axes EGC-BS-KF, with recirculating ball bearing guide

FESTO

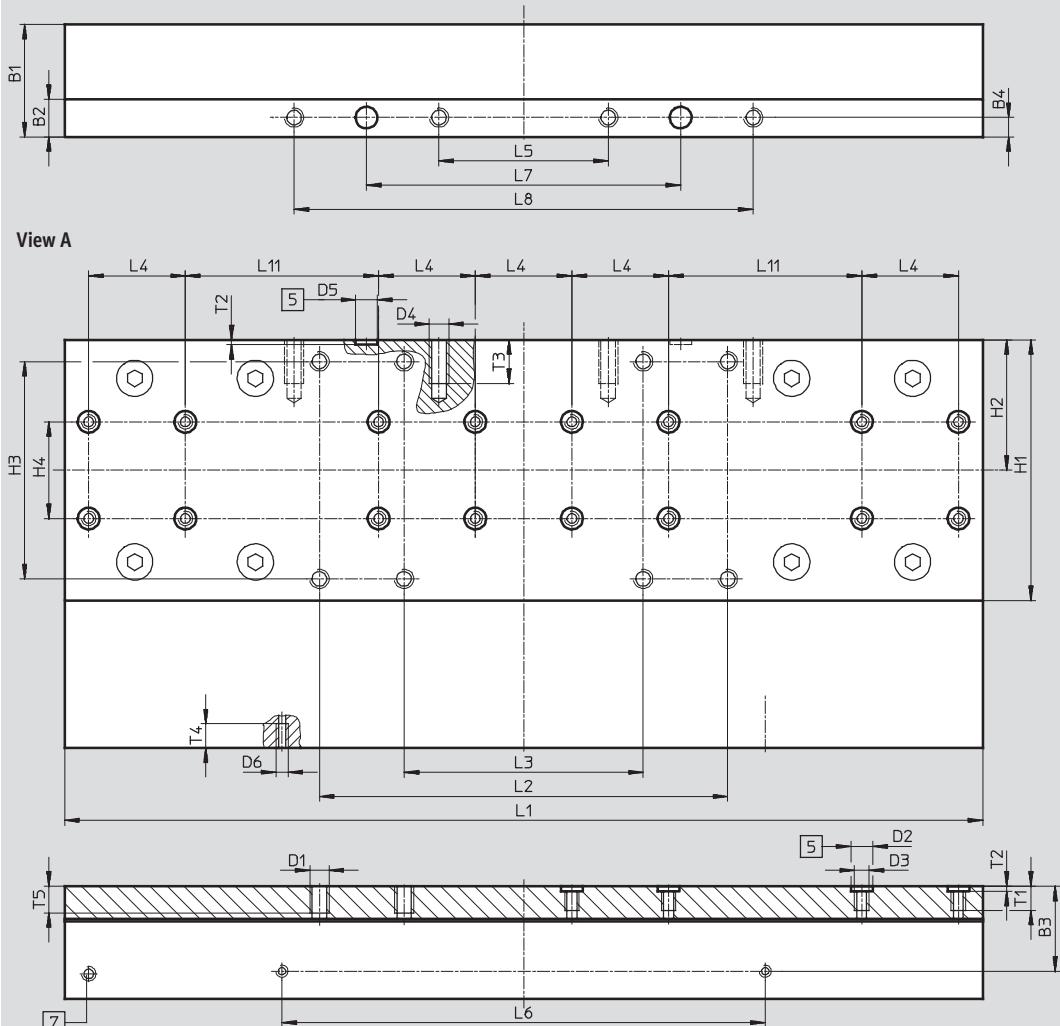
Technical data

## Dimensions

GV – Extended slide

Download CAD Data → [www.festo.com/us/cad](http://www.festo.com/us/cad)

### Size 185



[5] Hole for centring sleeve

[7] Lubricating hole for spindle,

M6 threaded connection, 8 mm deep

Size	B1	B2	B3	B4	D1	D2 ∅ H7	D3	D4	D5 ∅ H7
185	46.5	15.5	35.2	8	M8	9	M6	M8	9

Size	D6	H1	H2	H3	H4	L1	L2	L3	L4
185	M5	108	54	90	40	380	169	99	40

Size	L5	L6	L7	L8	L11	T1	T2	T3	T4	T5
185	±0.2	±0.1	±0.05	±0.2	±0.03		+0.1		10	12

# Spindle axes EGC-BS-KF, with recirculating ball bearing guide

FESTO

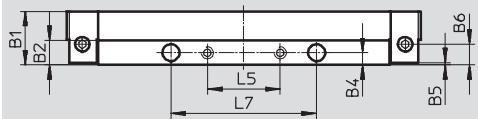
Technical data

## Dimensions

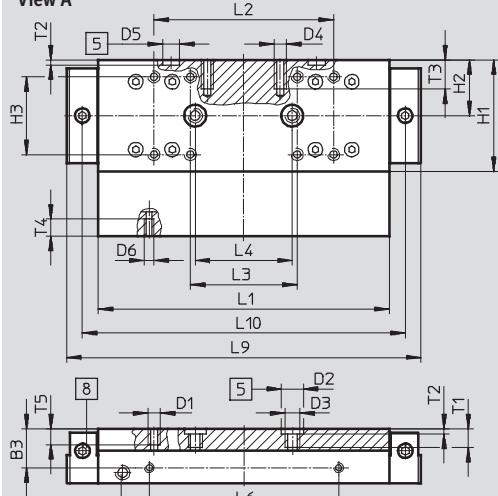
GK-C – Standard slide with lubrication adapter

Download CAD Data ➔ [www.festo.com/us/cad](http://www.festo.com/us/cad)

### Size 80

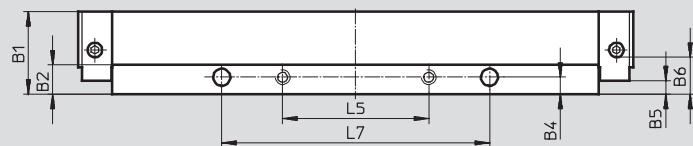


### View A

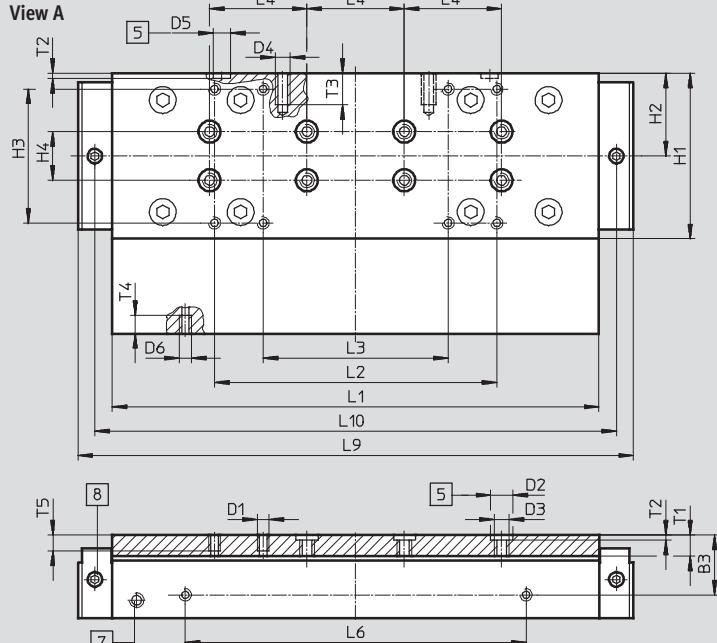


- [5] Hole for centring sleeve
- [7] Lubricating hole for spindle,  
M6 threaded connection, 8 mm deep
- [8] Lubricating hole for lubrication adapter,  
M6 threaded connection, 6 mm deep

### Size 120



### View A



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

Size	D5 ∅ H7	D6	H1	H2	H3	H4	L1	L2	L3	L4
80	7 M4	46	23	32	±0.2	±0.03	±0.1	±0.2	±0.2	±0.03
120	7 M5	68	34	55	20	200	116	76	40	40

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

# Spindle axes EGC-BS-KF, with recirculating ball bearing guide

FESTO

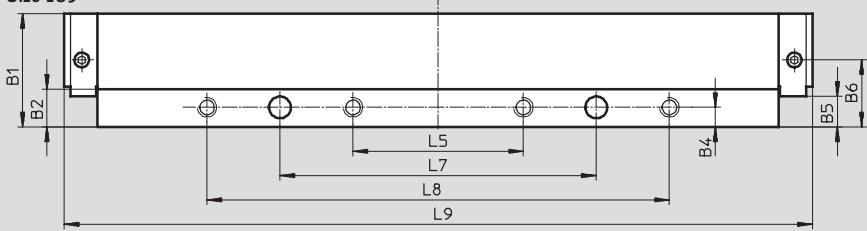
Technical data

## Dimensions

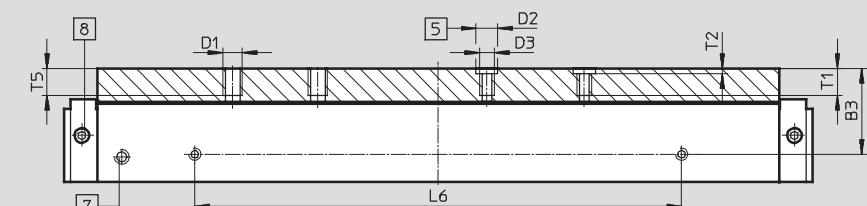
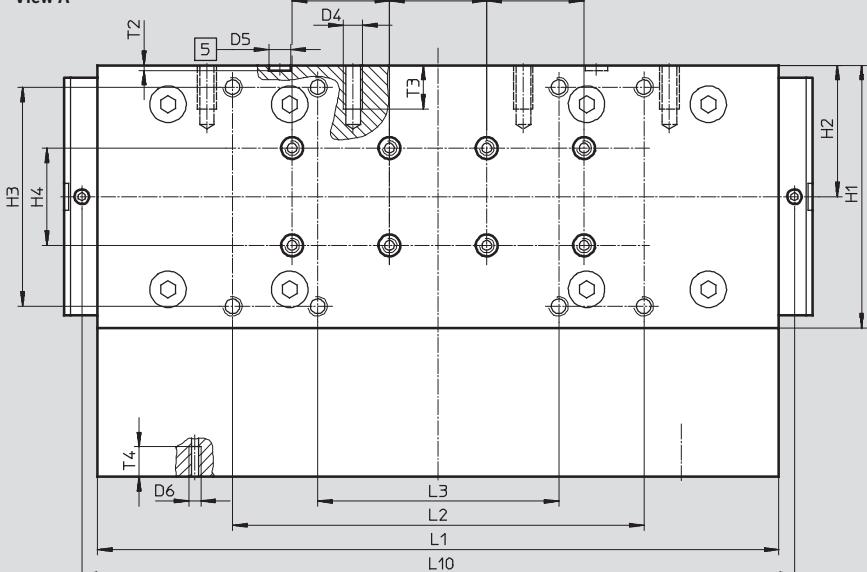
GK-C – Standard slide with lubrication adapter

Download CAD Data ➔ [www.festo.com/us/cad](http://www.festo.com/us/cad)

### Size 185



### View A



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

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

Size	D5 ∅ H7	D6	H1	H2	H3	H4	L1	L2	L3	L4
185	9	M5	108	54	90	40	280	169	99	40

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

# Spindle axes EGC-BS-KF, with recirculating ball bearing guide

FESTO

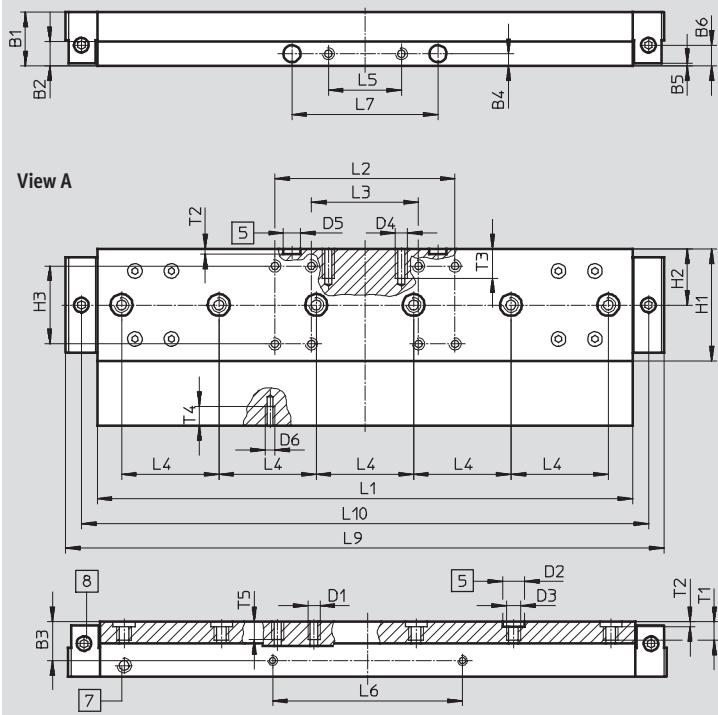
Technical data

## Dimensions

GV-C – Extended slide with lubrication adapter

Download CAD Data ➔ [www.festo.com/us/cad](http://www.festo.com/us/cad)

### Size 80



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

Size	B1	B2	B3	B4	B5	B6	D1	D2 ∅ H7	D3	D4
80	22	10	16	5	1	8.5	M5	9	M6	M5

Size	D5 ∅ H7	D6	H1	H2	H3	L1	L2	L3	L4	L5
80	7	M4	46	23	32	220	74	44	40	30

Size	L6 ±0.1	L7 ±0.05	L9	L10	T1	T2 +0.1	T3	T4	T5
80	78	60	246	233	8.6	2.1	12	7	7.5

# Spindle axes EGC-BS-KF, with recirculating ball bearing guide

FESTO

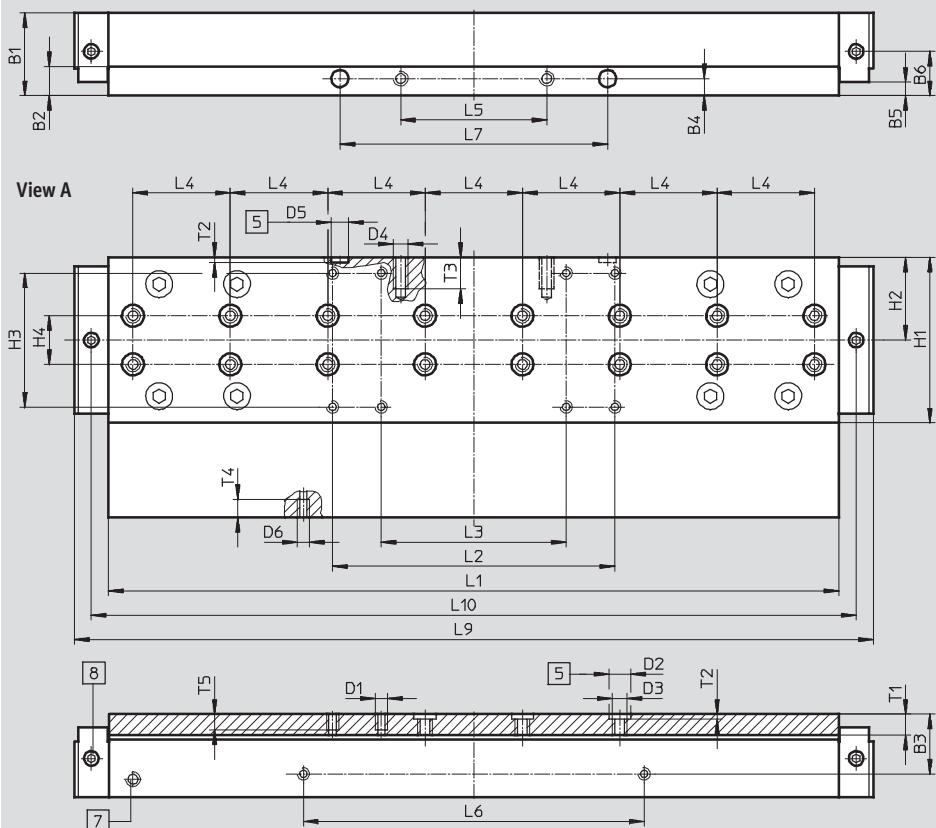
Technical data

## Dimensions

GV-C – Extended slide with lubrication adapter

Download CAD Data ➔ [www.festo.com/us/cad](http://www.festo.com/us/cad)

### Size 120



[5] Hole for centring sleeve

[7] Lubricating hole for spindle,  
M6 threaded connection, 8 mm deep

[8] Lubricating hole for lubrication adapter,  
M6 threaded connection, 6 mm deep

Size	B1	B2	B3	B4	B5	B6	D1	D2	D3	D4
120	34	12	24.5	7	5.5	18.2	M5	9	M6	M6

Size	D5 ∅ H7	D6	H1	H2	H3	H4	L1	L2	L3	L4
120	7	M5	68	34	55	20	300	116	76	40

Size	L5 ±0.1	L6 ±0.1	L7 ±0.05	L9	L10	T1 +0.1	T2	T3	T4	T5
120	60	140	110	326.9	314.3	8.6	2.1	13	7.5	7.5

# Spindle axes EGC-BS-KF, with recirculating ball bearing guide

FESTO

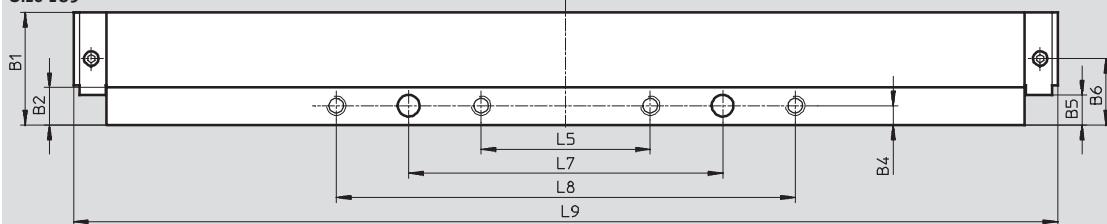
Technical data

## Dimensions

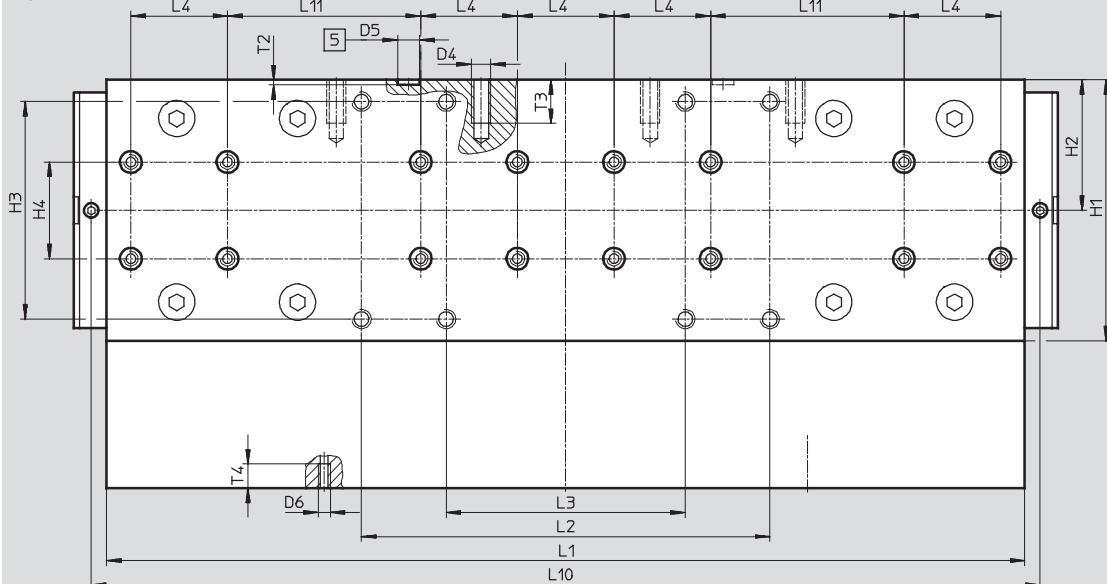
Download CAD Data ➔ [www.festo.com/us/cad](http://www.festo.com/us/cad)

GV-C – Extended slide with lubrication adapter

### Size 185



### View A



[5] Hole for centring sleeve

[7] Lubricating hole for spindle,

M6 threaded connection, 8 mm deep

[8] Lubricating hole for lubrication adapter,

M6 threaded connection, 6 mm deep

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

Size	D5	D6	H1	H2	H3	H4	L1	L2	L3	L4	L5
185	9	M5	108	54	90	40	380	169	99	40	70

Size	L6	L7	L8	L9	L10	L11	T1	T2	T3	T4	T5
185	±0.1	±0.05	±0.2			±0.03		+0.1		10	12

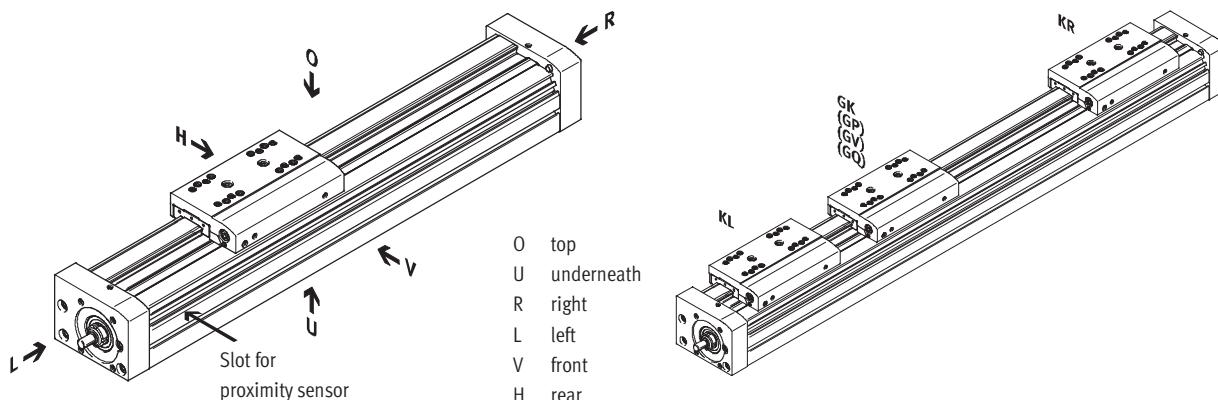
## Spindle axes EGC-BS-KF, with recirculating ball bearing guide

**FESTO**

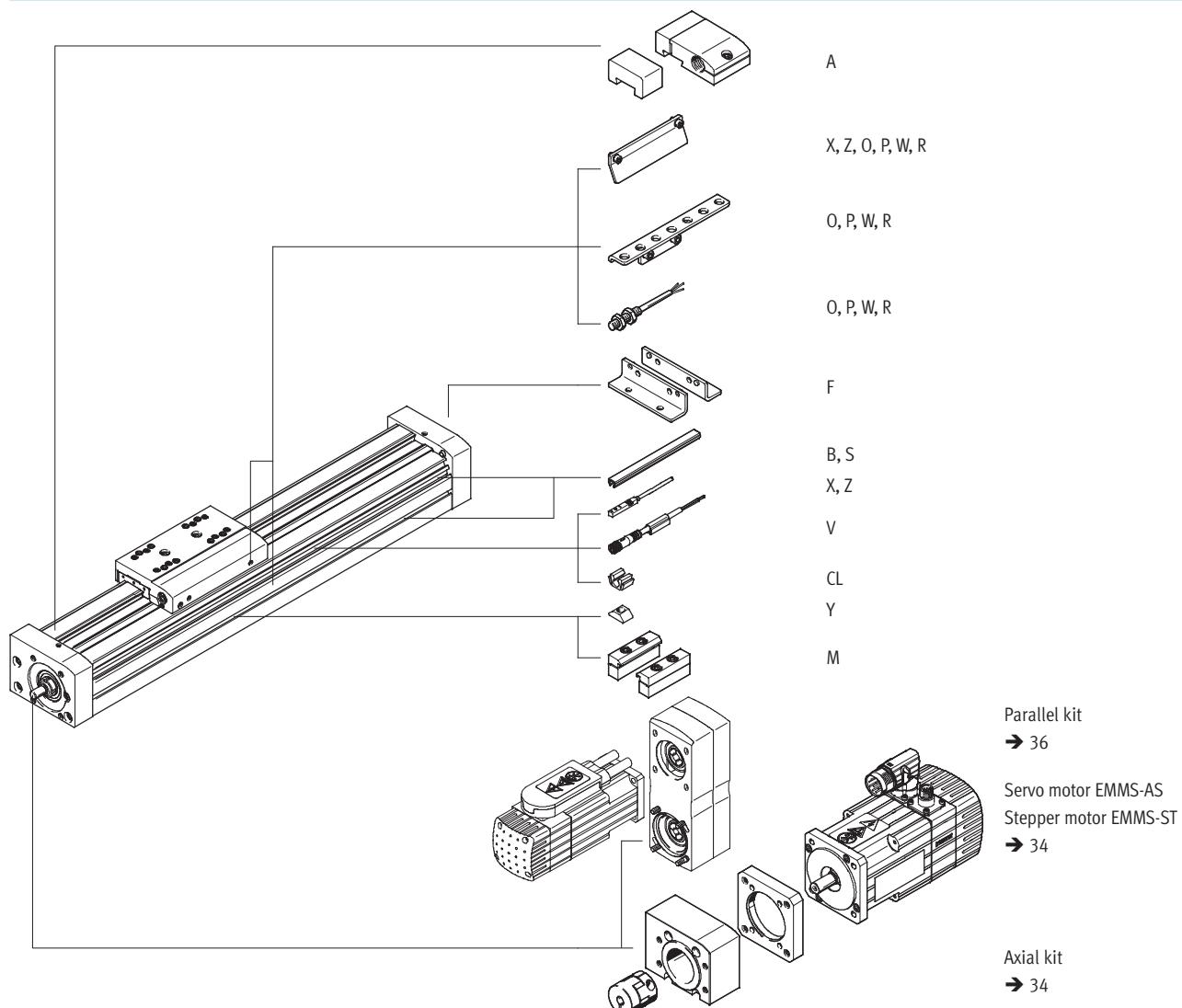
Ordering data – Modular products

### Order code

Mandatory data



### Accessories



### Note

Spindle support enables maximum travel speed with all stroke lengths (on request)

# Spindle axes EGC-BS-KF, with recirculating ball bearing guide

Ordering data – Modular products

**FESTO**

**Ordering table**

Size	70	80	120	185	Condition s	Code	Enter code
[M] Module No.	556807	556808	556809	556811			
Design	Linear axis				EGC		EGC
Size	70	80	120	185	-...	-...	-...
Stroke for GK, GP [mm] (without stroke reserve)	100; 200; 300; 400; 500; 600; 700; 800; 1,000	100; 200; 300; 500; 600; 800; 1,000; 1,400; 1,500; 1,800; 2,000	200; 300; 500; 600; 800; 1,000; 1,400; 1,500; 2,000; 2,500	300; 500; 600; 1,000; 1,500; 2,000; 2,500; 3,000			
	50 ... 1,000	50 ... 2,000	50 ... 2,500	50 ... 3,000			
Stroke for GV, GQ [mm] (without stroke reserve)	100; 200; 300; 400; 500; 600; 700; 900	100; 200; 400; 500; 700; 900; 1,300; 1,400; 1,700; 1,900	100; 200; 400; 500; 700; 900; 1,300; 1,400; 1,900; 2,400	200; 400; 500; 900; 1400; 1,900; 2,400; 2,900			
	50 ... 900	50 ... 1,900	50 ... 2,400	50 ... 2,900			
Function	Ball screw spindle				-BS		-BS
Spindle pitch	10	10	10	-		-10P	
	-	20	-	-		-20P	
	-	-	25	-		-25P	
	-	-	-	40		-40P	
Guide	Recirculating ball bearing guide				-KF		-KF
Stroke reserve [mm]	0 ... 999 (0 = no stroke reserve)				[1]	-...H	
Motor attachment position	Motor on the left					-ML	
	Motor on the right					-MR	
Slide	Standard slide					-GK	
	Extended slide, protected			-		-GQ	
	Standard slide, protected			-		-GP	
	Extended slide					-GV	
[O] Additional slide ↓	Left	Additional slide, standard, on left			[2]	-KL	
	Right	Additional slide, standard, on right			[2]	-KR	
Lubrication function	Standard						
	-	Lubrication adapter				-C	

[1] -... The sum of the stroke length and 2x stroke reserve must not exceed the maximum stroke length.

[2] KL, KR If the protected slide variant (GQ, GP) is selected, then the additional slide (KL, KR) is also protected.

If the extended slide variant (GQ, GV) is selected, then the additional slide (KL, KR) is not extended.

If the slide with lubrication adapter (GK-C, GV-C) is selected, then the additional slide (KL, KR) is also supplied with lubrication adapter.

**Order code**

EGC -  -  -  - BS -  - KF -  -  -  -

# Spindle axes EGC-BS-KF, with recirculating ball bearing guide

FESTO

Ordering data – Modular products

Ordering table		Size	70	80	120	185	Condition s	Code	Enter code
<input checked="" type="checkbox"/>	Accessories	Accessories enclosed separately					ZUB-	ZUB-	
<input type="checkbox"/>	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, cable 7.5 m N/C contact, cable 7.5 m	1 ... 6				...X		
	Emergency buffer with retainer	1 ... 2			[3]		...A		
	Proximity sensor (SIEN), inductive, M8, PNP, incl. switch lug with sensor bracket	N/O contact, cable 2.5 m N/C contact, cable 2.5 m N/O contact, plug M8 N/C contact, plug M8	1 ... 99				...O		
	Plug socket with cable 2.5 m, M8, 3-wire	1 ... 99					...P		
	Cable clip	10, 20, 30, 40, 50, 60, 70, 80, 90					...W		
	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 <a href="http://www.festo.com">www.festo.com</a> )					-DN		

[3] ... A

Emergency buffer with retainer A cannot be combined with slides GP, GQ, GK-C, GV-C

## 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.

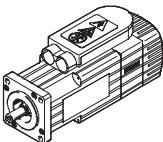
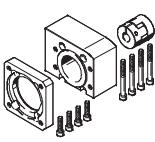
## Transfer order code

ZUB  -               -

# Spindle axes EGC-BS-KF, with recirculating ball bearing guide

Accessories

**FESTO**

Permissible axis/motor combinations with axial kit		Technical data → Internet: eamm-a
Motor	Axial kit	
		
Type	Part No.	Type
<b>EGC-70</b>		
With servo motor		
EMMS-AS-40-M-...	558162	EAMM-A-S38-40A
EMMS-AS-55-S-...	558163	EAMM-A-S38-55A
With stepper motor		
EMMS-ST-42-S-...	560685	EAMM-A-S38-42A
EMMS-ST-57-S-...	560686	EAMM-A-S38-57A
<b>EGC-80</b>		
With servo motor		
EMMS-AS-55-S-...	558164	EAMM-A-S48-55A
EMMS-AS-70-S-...	558165	EAMM-A-S48-70A
With stepper motor		
EMMS-ST-57-S-...	560687	EAMM-A-S48-57A
EMMS-ST-87-S-... <sup>1)</sup>	560688	EAMM-A-S48-87A
EMMS-ST-87-M-... <sup>2)</sup>		
<b>EGC-120</b>		
With servo motor		
EMMS-AS-70-M-...	558166	EAMM-A-S62-70A
EMMS-AS-100-S-...	558167	EAMM-A-S62-100A
EMMS-AS-140-S-...	558168	EAMM-A-S62-140A
With stepper motor		
EMMS-ST-87-S-... <sup>1)</sup>	560689	EAMM-A-S62-87A
EMMS-ST-87-M-... <sup>3)</sup>		
EMMS-ST-87-L-... <sup>3)</sup>		
<b>EGC-185</b>		
With servo motor		
EMMS-AS-100-M-...	558169	EAMM-A-S95-100A
EMMS-AS-140-M-...	558170	EAMM-A-S95-140A

1) In combination with spindle pitch 10

2) In combination with spindle pitch 20

3) In combination with spindle pitch 25

## Note

For the optimum selection of  
axis/motor combinations →

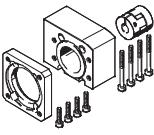
PositioningDrives  
sizing software  
[www.festo.com](http://www.festo.com)

# Spindle axes EGC-BS-KF, with recirculating ball bearing guide

**FESTO**

Accessories

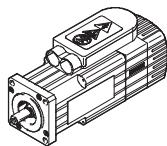
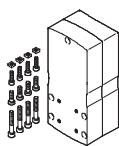
## Component parts of the axial kit

Axial kit	Consisting of:			
	Motor flange	Coupling	Coupling housing	Screw set
				
Part No. Type	Part No. Type	Part No. Type	Part No. Type	
<b>EGC-70</b>				
558162 EAMM-A-S38-40A	558175 EAMF-A-38B-40A	558312 EAMC-30-32-6-6	558171 EAMK-A-S38-38A/B	-
558163 EAMM-A-S38-55A	558176 EAMF-A-38A-55A	551003 EAMC-30-32-6-9	558171 EAMK-A-S38-38A/B	567488 EAHM-L2-M5-50
560685 EAMM-A-S38-42A	560691 EAMF-A-38B-42A	561333 EAMC-30-32-5-6	558171 EAMK-A-S38-38A/B	-
560686 EAMM-A-S38-57A	560692 EAMF-A-38A-57A	551002 EAMC-30-32-6-6.35	558171 EAMK-A-S38-38A/B	567488 EAHM-L2-M5-50
<b>EGC-80</b>				
558164 EAMM-A-S48-55A	558177 EAMF-A-48B-55A	543423 EAMC-30-32-8-9	558172 EAMK-A-S48-48A/B	-
558165 EAMM-A-S48-70A	558025 EAMF-A-48A-70A	551004 EAMC-30-32-8-11	558172 EAMK-A-S48-48A/B	567488 EAHM-L2-M5-50
560687 EAMM-A-S48-57A	560694 EAMF-A-48B-57A	543421 EAMC-30-32-6.35-8	558172 EAMK-A-S48-48A/B	-
560688 EAMM-A-S48-87A	560695 EAMF-A-48A-87A	551004 EAMC-30-32-8-11	558172 EAMK-A-S48-48A/B	567489 EAHM-L2-M5-55
<b>EGC-120</b>				
558166 EAMM-A-S62-70A	558179 EAMF-A-62B-70A	558313 EAMC-42-66-11-12	558173 EAMK-A-S62-62A/B	-
558167 EAMM-A-S62-100A	558026 EAMF-A-62A-100A	551005 EAMC-42-50-12-19	558173 EAMK-A-S62-62A/B	567494 EAHM-L2-M6-80
558168 EAMM-A-S62-140A	558022 EAMF-A-62A-140A	558314 EAMC-42-50-12-24	558173 EAMK-A-S62-62A/B	567495 EAHM-L2-M6-90
560689 EAMM-A-S62-87A	560696 EAMF-A-62B-87A	558313 EAMC-42-66-11-12	558173 EAMK-A-S62-62A/B	-
<b>EGC-185</b>				
558169 EAMM-A-S95-100A	558182 EAMF-A-95B-100A	558315 EAMC-56-58-19-25	558174 EAMK-A-S95-95A/B	-
558170 EAMM-A-S95-140A	558023 EAMF-A-95A-140A	558316 EAMC-56-58-24-25	558174 EAMK-A-S95-95A/B	567498 EAHM-L2-M8-100

## Spindle axes EGC-BS-KF, with recirculating ball bearing guide

Accessories

**FESTO**

Permissible axis/motor combinations with parallel kit		Technical data → Internet: eamm-u
Motor	Parallel kit	
		
Type	Part No.	Type
<b>EGC-70-...-BS</b>		
With servo motor		
EMMS-AS-40-...	1217708	EAMM-U-50-S38-40A-78
EMMS-AS-55-...	1218538	EAMM-U-60-S38-55A-91
With stepper motor		
EMMS-ST-42-...	1217945	EAMM-U-50-S38-42A-78
EMMS-ST-57-...	1218568	EAMM-U-60-S38-57A-91
<b>EGC-80-...-BS</b>		
With servo motor		
EMMS-AS-55-...	1219370	EAMM-U-60-S48-55A-91
EMMS-AS-70-...	1217689	EAMM-U-86-S48-70A-102
With stepper motor		
EMMS-ST-57-...	1219379	EAMM-U-60-S48-57A-91
EMMS-ST-87-...	1217604	EAMM-U-86-S48-87A-177
<b>EGC-120-...-BS</b>		
With servo motor		
EMMS-AS-70-...	1217543	EAMM-U-86-S62-70A-177
EMMS-AS-100-...	1217381	EAMM-U-110-S62-100A-207
EMMS-AS-140-...	1219440	EAMM-U-145-S62-140A-288
With stepper motor		
EMMS-ST-87-...	1217373	EAMM-U-86-S62-87A-177
<b>EGC-185-...-BS</b>		
With servo motor		
EMMS-AS-100-...	1220656	EAMM-U-110-S95-100A-207
EMMS-AS-140-...	1220582	EAMM-U-145-S95-140A-288

# Spindle axes EGC-BS-KF, with recirculating ball bearing guide

FESTO

Accessories

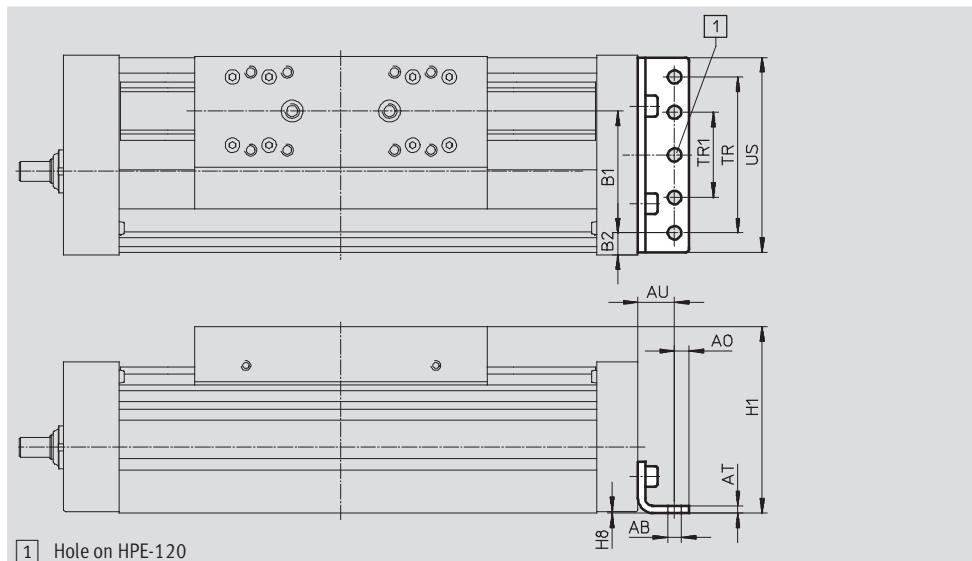
## Foot mounting HPE

(order code F)

Material:

Galvanised steel

Conforms to RoHS



## Dimensions and ordering data

For size	AB ∅	A0	AT	AU	B1	B2	H1	H8	TR	TR1	US	Weight [g]	Part No.	Type
70	5.5	6	3	13	37	14.5	64	0.5	40	-	67	115	558321	HPE-70
80	5.5	6	3	15	38	21	76.5	0.5	40	-	80	150	558322	HPE-80
120	9	8	6	22	65	20	111.5	0.6	80	-	116	578	558323	HPE-120
185	9	12	8	25	118	13	172.5	0.5	160	80	182	1,438	558325	HPE-185

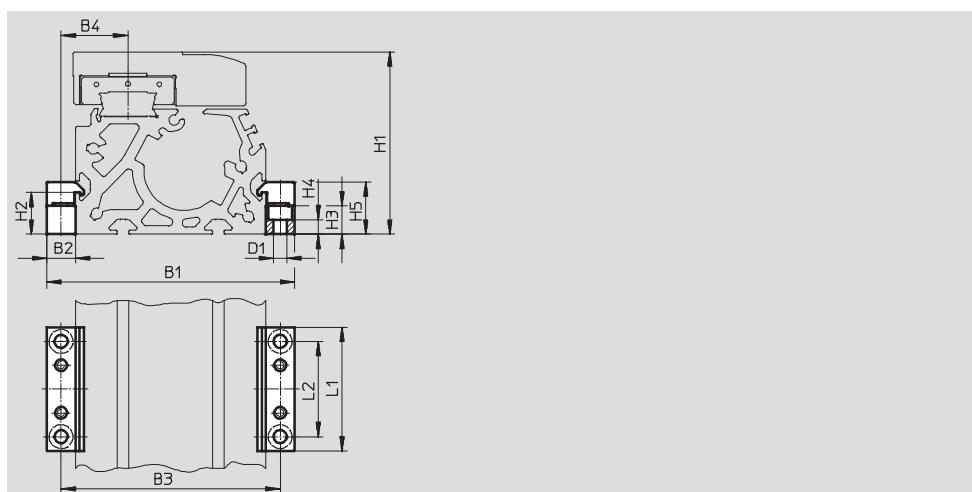
## Profile mounting MUE

(order code M)

Material:

Anodised aluminium

Conforms to RoHS



## Dimensions and ordering data

For size	B1	B2	B3	B4	D1 ∅	H1	H2	H3	H4	H5	L1	L2	Weight [g]	Part No.	Type
70	91	12	79	22.5	5.5	64	17.5	12	6.2	22	52	40	80	558043	MUE-70/80
80	104	12	92	28	5.5	76.5	17.5	12	6.2	22	52	40	80	558043	MUE-70/80
120	154	19	135	42.5	9	111.5	16	14	5.5	29.5	90	40	290	558044	MUE-120/185
185	220	19	201	62.5	9	172.5	16	14	5.5	29.5	90	40	290	558044	MUE-120/185

# Spindle axes EGC-BS-KF, with recirculating ball bearing guide

Accessories

**FESTO**

## Shock absorber retainer KYE

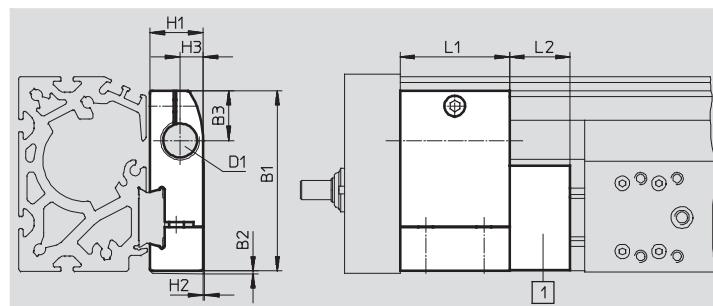
Emergency buffer NPE → 40  
(order code A)



Material:

Anodised aluminium  
Conforms to RoHS

Cannot be used in combination with  
the variants GP and GQ or GK-C and  
GV-C.



[1] Emergency buffer NPE

## Dimensions and ordering data

For size	B1	B2	B3	D1	H1	H2	H3	L1	L2	Weight [g]	Part No.	Type
70	57.5	1	16.5	M12X1	18.2	0.5	7.5	30	15	75	557584	KYE-70
80	74.2	1	20.5	M16X1	22	0.5	9.5	45	25	170	557585	KYE-80
120	108.5	1	26	M22X1.5	31	1	14	60	40	680	557586	KYE-120
185	168	1	37	M26X1.5	42	4	18	75	60	1,075	557587	KYE-185

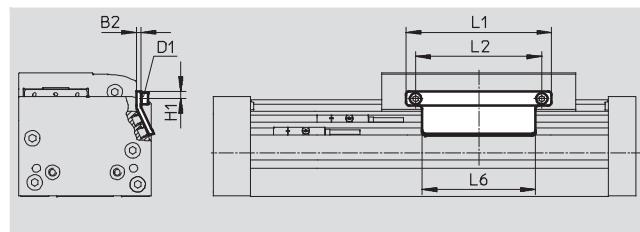
## Switch lug SF-EGC-1

for sensing with proximity sensor  
SIES-8M  
(order code X or Z)



Material:

Galvanised steel  
Conforms to RoHS



## 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	558047	SF-EGC-1-70
80	3	M4	4.65	90	78	70	60	558048	SF-EGC-1-80
120	3	M5	8	170	140	170	150	558049	SF-EGC-1-120
185	3	M5	10	230	200	230	245	558051	SF-EGC-1-185

# Spindle axes EGC-BS-KF, with recirculating ball bearing guide

**FESTO**

Accessories

## Switch lug SF-EGC-2

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

Switch lug SF-EGC-2



## Material:

Galvanised steel  
Conforms to RoHS

## Sensor bracket HWS-EGC

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

## Material:

Galvanised steel  
Conforms to RoHS

## 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

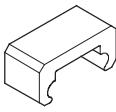
For size	Weight [g]	Part No.	Type
Switch lug			
70	100	<b>558052</b>	<b>SF-EGC-2-70</b>
80	130	<b>558053</b>	<b>SF-EGC-2-80</b>
120	280	<b>558054</b>	<b>SF-EGC-2-120</b>
185	390	<b>558056</b>	<b>SF-EGC-2-185</b>

For size	Weight [g]	Part No.	Type
Sensor bracket			
70	110	<b>558057</b>	<b>HWS-EGC-M5</b>
80	110	<b>558057</b>	<b>HWS-EGC-M5</b>
120	200	<b>558058</b>	<b>HWS-EGC-M8</b>
185	60	<b>560517</b>	<b>HWS-EGC-M8:KURZ</b>

# Spindle axes EGC-BS-KF, with recirculating ball bearing guide

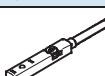
Accessories

**FESTO**

Ordering data		For size	Comment	Order code	Part No.	Type	PU <sup>1)</sup>
<b>Emergency buffer NPE</b>							
	70	Use in combination with shock absorber retainer KYE	A	562581	NPE-70		1
	80			562582	NPE-80		
	120			562583	NPE-120		
	185			562584	NPE-185		
<b>Slot nut NST</b>							
	70, 80	For mounting slot	Y	150914	NST-5-M5		1
	120, 185			150915	NST-8-M6		
<b>Centring pin/sleeve ZBS/ZBH<sup>2)</sup></b>							
	70	For slide	-	150928	ZBS-5		10
	80, 120, 185			150927	ZBH-9		
<b>Slot cover ABP</b>							
	70, 80	For mounting slot every 0.5 m	B	151681	ABP-5		2
	120, 185			151682	ABP-8		
<b>Slot cover ABP-S</b>							
	70 ... 185	For sensor slot every 0.5 m	S	563360	ABP-5-S1		2
<b>Clip SMBK</b>							
	70 ... 185	For sensor slot, for attaching the proximity sensor cables	CL	534254	SMBK-8		10

1) Packaging unit

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

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
<b>N/O contact</b>							
	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
<b>N/C contact</b>							
	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

# Spindle axes EGC-BS-KF, with recirculating ball bearing guide

**FESTO**

Accessories

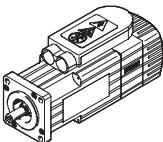
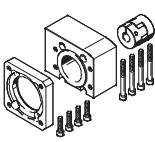
Ordering data – Proximity sensors M8 (round design), inductive							Technical data → Internet: sien
	Electrical connection	LED	Switching output	Cable length [m]	Order code	Part No.	Type
<b>N/O contact</b>							
	Cable, 3-wire	■	PNP	2.5	0	150386	SIEN-M8B-PS-K-L
	Plug M8x1, 3-pin	■	PNP	–	W	150387	SIEN-M8B-PS-S-L
<b>N/C contact</b>							
	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	159420	SIM-M8-3GD-2,5-PU
					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

# Spindle axes EGC-BS-KF, with recirculating ball bearing guide

Accessories

**FESTO**

Permissible axis/motor combinations with axial kit		Technical data → Internet: eamm-a
Motor	Axial kit	
		
Type	Part No.	Type
<b>EGC-70</b>		
With servo motor		
EMMS-AS-40-M-...	558162	EAMM-A-S38-40A
EMMS-AS-55-S-...	558163	EAMM-A-S38-55A
With stepper motor		
EMMS-ST-42-S-...	560685	EAMM-A-S38-42A
EMMS-ST-57-S-...	560686	EAMM-A-S38-57A
<b>EGC-80</b>		
With servo motor		
EMMS-AS-55-S-...	558164	EAMM-A-S48-55A
EMMS-AS-70-S-...	558165	EAMM-A-S48-70A
With stepper motor		
EMMS-ST-57-S-...	560687	EAMM-A-S48-57A
EMMS-ST-87-S-... <sup>1)</sup>	560688	EAMM-A-S48-87A
EMMS-ST-87-M-... <sup>2)</sup>		
<b>EGC-120</b>		
With servo motor		
EMMS-AS-70-M-...	558166	EAMM-A-S62-70A
EMMS-AS-100-S-...	558167	EAMM-A-S62-100A
EMMS-AS-140-S-...	558168	EAMM-A-S62-140A
With stepper motor		
EMMS-ST-87-S-... <sup>1)</sup>	560689	EAMM-A-S62-87A
EMMS-ST-87-M-... <sup>3)</sup>		
EMMS-ST-87-L-... <sup>3)</sup>		
<b>EGC-185</b>		
With servo motor		
EMMS-AS-100-M-...	558169	EAMM-A-S95-100A
EMMS-AS-140-M-...	558170	EAMM-A-S95-140A

1) In combination with spindle pitch 10

2) In combination with spindle pitch 20

3) In combination with spindle pitch 25

## Note

For the optimum selection of  
axis/motor combinations →

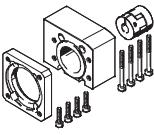
PositioningDrives  
sizing software  
[www.festo.com](http://www.festo.com)

# Spindle axes EGC-BS-KF, with recirculating ball bearing guide

**FESTO**

Accessories

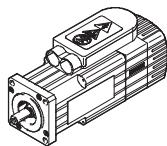
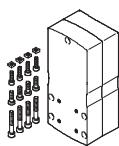
## Component parts of the axial kit

Axial kit	Consisting of:			
	Motor flange	Coupling	Coupling housing	Screw set
				
Part No. Type	Part No. Type	Part No. Type	Part No. Type	
<b>EGC-70</b>				
558162 EAMM-A-S38-40A	558175 EAMF-A-38B-40A	558312 EAMC-30-32-6-6	558171 EAMK-A-S38-38A/B	-
558163 EAMM-A-S38-55A	558176 EAMF-A-38A-55A	551003 EAMC-30-32-6-9	558171 EAMK-A-S38-38A/B	567488 EAHM-L2-M5-50
560685 EAMM-A-S38-42A	560691 EAMF-A-38B-42A	561333 EAMC-30-32-5-6	558171 EAMK-A-S38-38A/B	-
560686 EAMM-A-S38-57A	560692 EAMF-A-38A-57A	551002 EAMC-30-32-6-6.35	558171 EAMK-A-S38-38A/B	567488 EAHM-L2-M5-50
<b>EGC-80</b>				
558164 EAMM-A-S48-55A	558177 EAMF-A-48B-55A	543423 EAMC-30-32-8-9	558172 EAMK-A-S48-48A/B	-
558165 EAMM-A-S48-70A	558025 EAMF-A-48A-70A	551004 EAMC-30-32-8-11	558172 EAMK-A-S48-48A/B	567488 EAHM-L2-M5-50
560687 EAMM-A-S48-57A	560694 EAMF-A-48B-57A	543421 EAMC-30-32-6.35-8	558172 EAMK-A-S48-48A/B	-
560688 EAMM-A-S48-87A	560695 EAMF-A-48A-87A	551004 EAMC-30-32-8-11	558172 EAMK-A-S48-48A/B	567489 EAHM-L2-M5-55
<b>EGC-120</b>				
558166 EAMM-A-S62-70A	558179 EAMF-A-62B-70A	558313 EAMC-42-66-11-12	558173 EAMK-A-S62-62A/B	-
558167 EAMM-A-S62-100A	558026 EAMF-A-62A-100A	551005 EAMC-42-50-12-19	558173 EAMK-A-S62-62A/B	567494 EAHM-L2-M6-80
558168 EAMM-A-S62-140A	558022 EAMF-A-62A-140A	558314 EAMC-42-50-12-24	558173 EAMK-A-S62-62A/B	567495 EAHM-L2-M6-90
560689 EAMM-A-S62-87A	560696 EAMF-A-62B-87A	558313 EAMC-42-66-11-12	558173 EAMK-A-S62-62A/B	-
<b>EGC-185</b>				
558169 EAMM-A-S95-100A	558182 EAMF-A-95B-100A	558315 EAMC-56-58-19-25	558174 EAMK-A-S95-95A/B	-
558170 EAMM-A-S95-140A	558023 EAMF-A-95A-140A	558316 EAMC-56-58-24-25	558174 EAMK-A-S95-95A/B	567498 EAHM-L2-M8-100

## Spindle axes EGC-BS-KF, with recirculating ball bearing guide

FESTO

Accessories

Permissible axis/motor combinations with parallel kit		Technical data → Internet: eamm-u
Motor	Parallel kit	
		
Type	Part No.	Type
<b>EGC-70-...-BS</b>		
With servo motor		
EMMS-AS-40-...	1217708	EAMM-U-50-S38-40A-78
EMMS-AS-55-...	1218538	EAMM-U-60-S38-55A-91
With stepper motor		
EMMS-ST-42-...	1217945	EAMM-U-50-S38-42A-78
EMMS-ST-57-...	1218568	EAMM-U-60-S38-57A-91
<b>EGC-80-...-BS</b>		
With servo motor		
EMMS-AS-55-...	1219370	EAMM-U-60-S48-55A-91
EMMS-AS-70-...	1217689	EAMM-U-86-S48-70A-102
With stepper motor		
EMMS-ST-57-...	1219379	EAMM-U-60-S48-57A-91
EMMS-ST-87-...	1217604	EAMM-U-86-S48-87A-177
<b>EGC-120-...-BS</b>		
With servo motor		
EMMS-AS-70-...	1217543	EAMM-U-86-S62-70A-177
EMMS-AS-100-...	1217381	EAMM-U-110-S62-100A-207
EMMS-AS-140-...	1219440	EAMM-U-145-S62-140A-288
With stepper motor		
EMMS-ST-87-...	1217373	EAMM-U-86-S62-87A-177
<b>EGC-185-...-BS</b>		
With servo motor		
EMMS-AS-100-...	1220656	EAMM-U-110-S95-100A-207
EMMS-AS-140-...	1220582	EAMM-U-145-S95-140A-288

# Spindle axes EGC-BS-KF, with recirculating ball bearing guide

FESTO

Accessories

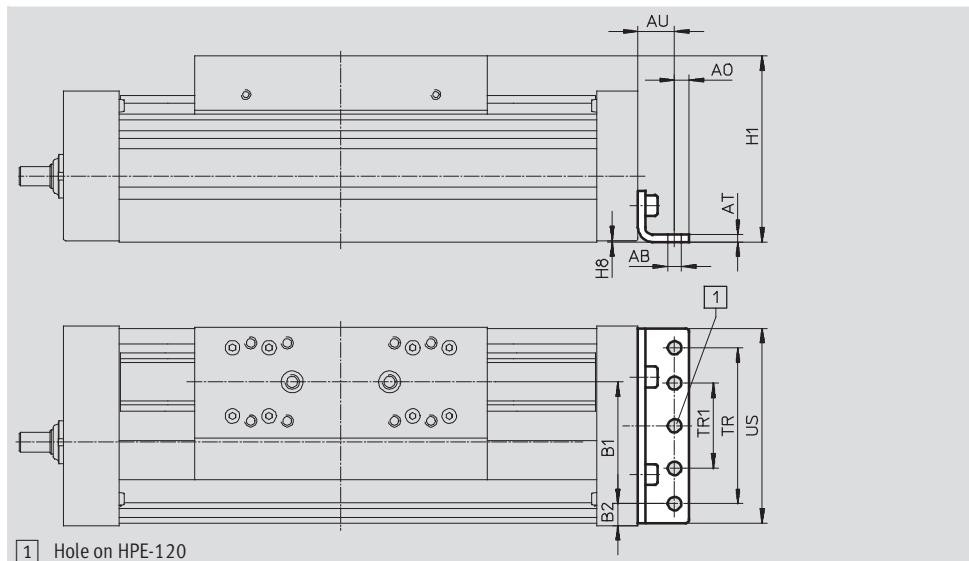
## Foot mounting HPE

(order code F)

Material:

Galvanised steel

Conforms to RoHS



## Dimensions and ordering data

For size	AB ∅	A0	AT	AU	B1	B2	H1	H8	TR	TR1	US	Weight [g]	Part No.	Type
70	5.5	6	3	13	37	14.5	64	0.5	40	-	67	115	558321	HPE-70
80	5.5	6	3	15	38	21	76.5	0.5	40	-	80	150	558322	HPE-80
120	9	8	6	22	65	20	111.5	0.6	80	-	116	578	558323	HPE-120
185	9	12	8	25	118	13	172.5	0.5	160	80	182	1,438	558325	HPE-185

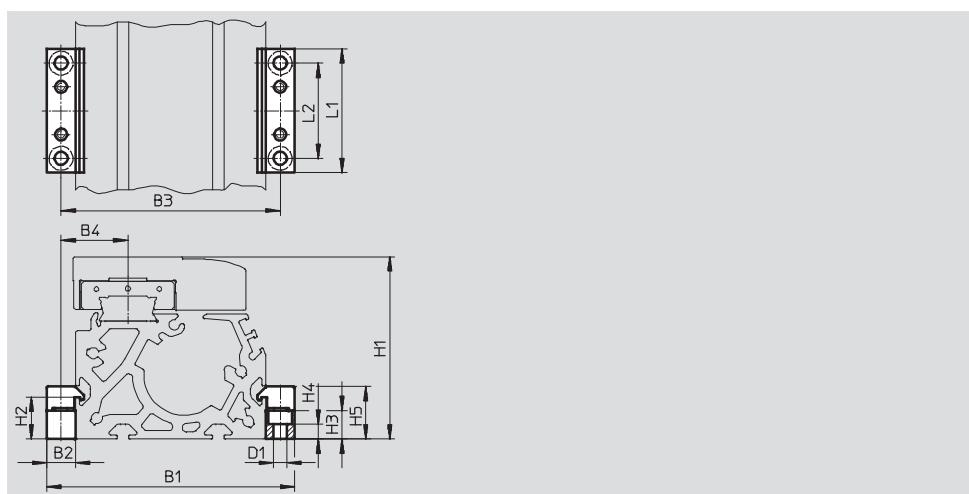
## Profile mounting MUE

(order code M)

Material:

Anodised aluminium

Conforms to RoHS



## Dimensions and ordering data

For size	B1	B2	B3	B4	D1 ∅	H1	H2	H3	H4	H5	L1	L2	Weight [g]	Part No.	Type
70	91	12	79	22.5	5.5	64	17.5	12	6.2	22	52	40	80	558043	MUE-70/80
80	104	12	92	28	5.5	76.5	17.5	12	6.2	22	52	40	80	558043	MUE-70/80
120	154	19	135	42.5	9	111.5	16	14	5.5	29.5	90	40	290	558044	MUE-120/185
185	220	19	201	62.5	9	172.5	16	14	5.5	29.5	90	40	290	558044	MUE-120/185

# Spindle axes EGC-BS-KF, with recirculating ball bearing guide

Accessories

**FESTO**

## Shock absorber retainer KYE

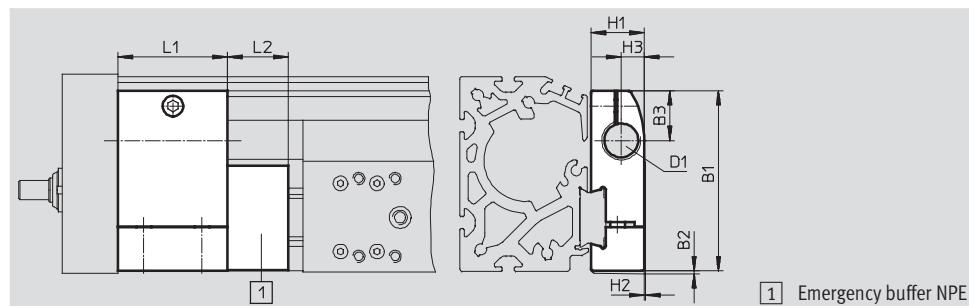
Emergency buffer NPE → 48  
(order code A)



Material:

Anodised aluminium  
Conforms to RoHS

Cannot be used in combination with  
the variants GP and GQ or GK-C and  
GV-C.



## Dimensions and ordering data

For size	B1	B2	B3	D1	H1	H2	H3	L1	L2	Weight [g]	Part No.	Type
70	57.5	1	16.5	M12X1	18.2	0.5	7.5	30	15	75	557584	KYE-70
80	74.2	1	20.5	M16X1	22	0.5	9.5	45	25	170	557585	KYE-80
120	108.5	1	26	M22X1.5	31	1	14	60	40	680	557586	KYE-120
185	168	1	37	M26X1.5	42	4	18	75	60	1,075	557587	KYE-185

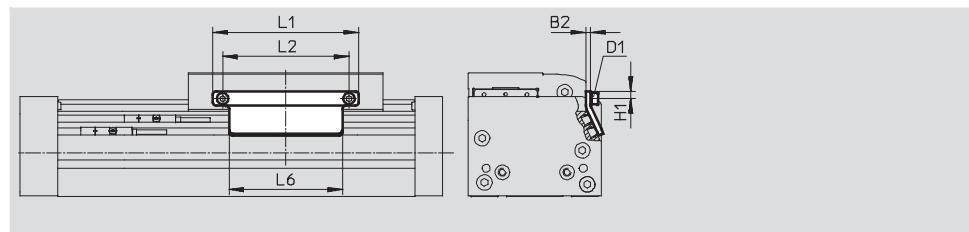
## Switch lug SF-EGC-1

for sensing with proximity sensor  
SIES-8M  
(order code X or Z)



Material:

Galvanised steel  
Conforms to RoHS



## 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	558047	SF-EGC-1-70
80	3	M4	4.65	90	78	70	60	558048	SF-EGC-1-80
120	3	M5	8	170	140	170	150	558049	SF-EGC-1-120
185	3	M5	10	230	200	230	245	558051	SF-EGC-1-185

# Spindle axes EGC-BS-KF, with recirculating ball bearing guide

**FESTO**

Accessories

## Switch lug SF-EGC-2

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

Switch lug SF-EGC-2



## Material:

Galvanised steel  
Conforms to RoHS

## Sensor bracket HWS-EGC

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

## Material:

Galvanised steel  
Conforms to RoHS

## 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

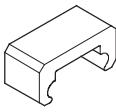
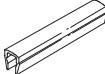
For size	Weight [g]	Part No.	Type
Switch lug			
70	100	<b>558052</b>	<b>SF-EGC-2-70</b>
80	130	<b>558053</b>	<b>SF-EGC-2-80</b>
120	280	<b>558054</b>	<b>SF-EGC-2-120</b>
185	390	<b>558056</b>	<b>SF-EGC-2-185</b>

For size	Weight [g]	Part No.	Type
Sensor bracket			
70	110	<b>558057</b>	<b>HWS-EGC-M5</b>
80	110	<b>558057</b>	<b>HWS-EGC-M5</b>
120	200	<b>558058</b>	<b>HWS-EGC-M8</b>
185	60	<b>560517</b>	<b>HWS-EGC-M8:KURZ</b>

# Spindle axes EGC-BS-KF, with recirculating ball bearing guide

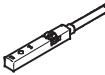
Accessories

**FESTO**

Ordering data		For size	Comment	Order code	Part No.	Type	PU <sup>1)</sup>
<b>Emergency buffer NPE</b>							
	70	Use in combination with shock absorber retainer KYE	A	562581	NPE-70		1
	80			562582	NPE-80		
	120			562583	NPE-120		
	185			562584	NPE-185		
<b>Slot nut NST</b>							
	70, 80	For mounting slot	Y	150914	NST-5-M5		1
	120, 185			150915	NST-8-M6		
<b>Centring pin/sleeve ZBS/ZBH<sup>2)</sup></b>							
	70	For slide	-	150928	ZBS-5		10
	80, 120, 185			150927	ZBH-9		
<b>Slot cover ABP</b>							
	70, 80	For mounting slot every 0.5 m	B	151681	ABP-5		2
	120, 185			151682	ABP-8		
<b>Slot cover ABP-S</b>							
	70 ... 185	For sensor slot every 0.5 m	S	563360	ABP-5-S1		2
<b>Clip SMBK</b>							
	70 ... 185	For sensor slot, for attaching the proximity sensor cables	CL	534254	SMBK-8		10

1) Packaging unit

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

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
<b>N/O contact</b>							
	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
<b>N/C contact</b>							
	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

# Spindle axes EGC-BS-KF, with recirculating ball bearing guide

**FESTO**

Accessories

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
<b>N/O contact</b>							
	Cable, 3-wire	■	PNP	2.5	0	150386	SIEN-M8B-PS-K-L
	Plug M8x1, 3-pin	■	PNP	–	W	150387	SIEN-M8B-PS-S-L
<b>N/C contact</b>							
	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	159420	SIM-M8-3GD-2,5-PU
					2.5	541333	NEBU-M8G3-K-2.5-LE3
					5	541334	NEBU-M8G3-K-5-LE3
	Angled socket, M8x1, 3-pin	Cable, open end, 3-wire			2.5	541338	NEBU-M8W3-K-2.5-LE3
					5	541341	NEBU-M8W3-K-5-LE3

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**Custom Automation Components**  
Complete custom engineered solutions



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