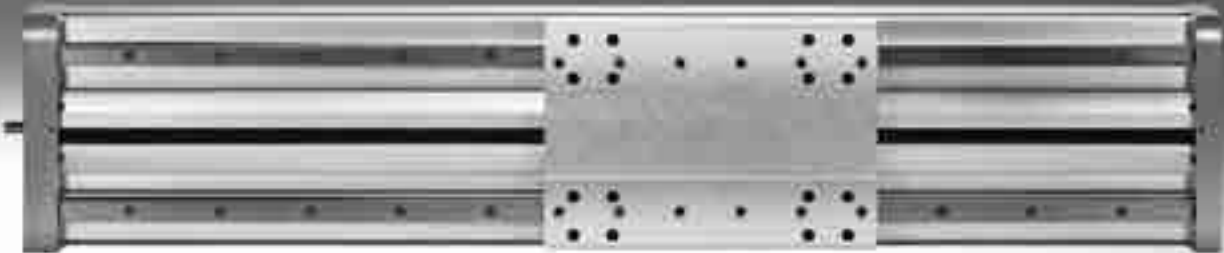


Spindle axes EGC-HD-BS, with heavy-duty guide



Electromechanical drives

Selection aid



Overview of toothed belt and spindle axes

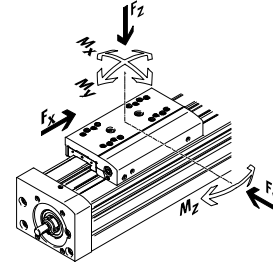
Toothed belt axes

- Speeds of up to 10 m/s
- Acceleration of up to 50 m/s²
- Repetition accuracy of up to ±0.08 mm
- Strokes of up to 8500 mm (longer strokes on request)
- Flexible motor mounting

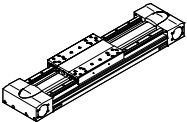
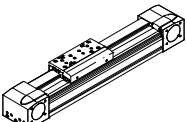
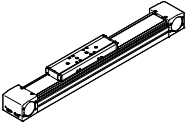
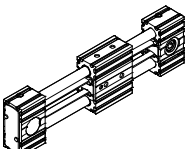
Spindle axes

- Speeds of up to 2 m/s
- Acceleration of up to 20 m/s²
- Repetition accuracy of up to ±0.003 mm
- Strokes of up to 3000 mm

Coordinate system



Toothed belt axes

Type	F_x [N]	v [m/s]	M_x [Nm]	M_y [Nm]	M_z [Nm]	Properties
Heavy-duty recirculating ball bearing guide						
EGC-HD-TB						
	450	3	140	275	275	<ul style="list-style-type: none"> • Flat drive unit with rigid, closed profile • Precision, resilient DUO guide rail • Ideal as a basic axis for linear gantries and cantilever axes
	1000	5	300	500	500	
	1800	5	900	1450	1450	
Recirculating ball bearing guide						
EGC-TB-KF						
	50	3	3.5	10	10	<ul style="list-style-type: none"> • Rigid, closed profile • Precision, resilient guide rail • Small drive pinions reduce necessary driving torque • Space-saving position sensing
	100	5	16	132	132	
	350	5	36	228	228	
	800	5	144	680	680	
	2500	5	529	1820	1820	
ELGA-TB-KF						
	350	5	16	132	132	<ul style="list-style-type: none"> • Internal guide and toothed belt • Precision, resilient guide rail • Guide and toothed belt protected by cover strip • High feed forces
	800	5	36	228	228	
	1300	5	104	680	680	
	2000	5	167	1150	1150	
ELGR-TB						
	50	3	2.5	20	20	<ul style="list-style-type: none"> • Cost-optimised rod guide • Ready-to-install unit • Resilient ball bearings for dynamic operation
	100	3	5	40	40	
	350	3	15	124	124	

Electromechanical drives

Selection aid

Overview of toothed belt and spindle axes

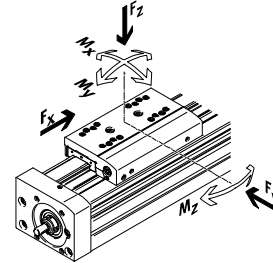
Toothed belt axes

- Speeds of up to 10 m/s
- Acceleration of up to 50 m/s²
- Repetition accuracy of up to ±0.08 mm
- Strokes of up to 8500 mm (longer strokes on request)
- Flexible motor mounting

Spindle axes

- Speeds of up to 2 m/s
- Acceleration of up to 20 m/s²
- Repetition accuracy of up to ±0.003 mm
- Strokes of up to 3000 mm

Coordinate system



Toothed belt axes

Type	F_x [N]	v [m/s]	M_x [Nm]	M_y [Nm]	M_z [Nm]	Properties
Roller bearing guide						
ELGA-TB-RF						
	350	10	11	40	40	<ul style="list-style-type: none"> • Sturdy roller bearing guide • Guide and toothed belt protected by cover strip • Speeds of up to 10 m/s • Lower weight than axes with guide rails
	800	10	30	180	180	
	1300	10	100	640	640	
ELGA-TB-RF-F1						
	260	10	8.8	32	32	<ul style="list-style-type: none"> • Suitable for use in the food zone • Sturdy roller bearing guide • Guide and toothed belt protected by cover strip • Speeds of up to 10 m/s • Lower weight than axes with guide rails
	600	10	24	144	144	
	1000	10	80	512	512	
Plain-bearing guide						
ELGA-TB-G						
	350	5	5	30	10	<ul style="list-style-type: none"> • Guide and toothed belt protected by cover strip • For simple handling tasks • As an actuator for external guides • Insensitive to harsh environmental conditions
	800	5	10	60	20	
	1300	5	120	120	40	
ELGR-TB-GF						
	50	1	1	10	10	<ul style="list-style-type: none"> • Cost-optimised rod guide • Ready-to-install unit • Heavy-duty plain bearings for use in harsh environmental conditions
	100	1	2.5	20	20	
	350	1	1	40	40	

Electromechanical drives

Selection aid



Overview of toothed belt and spindle axes

Toothed belt axes	Spindle axes	Coordinate system
<ul style="list-style-type: none"> • Speeds of up to 10 m/s • Acceleration of up to 50 m/s² • Repetition accuracy of up to ±0.08 mm • Strokes of up to 8500 mm (longer strokes on request) • Flexible motor mounting 	<ul style="list-style-type: none"> • Speeds of up to 2 m/s • Acceleration of up to 20 m/s² • Repetition accuracy of up to ±0.003 mm • Strokes of up to 3000 mm 	

Spindle axes						
Type	F_x [N]	v [m/s]	M_x [Nm]	M_y [Nm]	M_z [Nm]	Properties
Heavy-duty recirculating ball bearing guide						
EGC-HD-BS						
	300 600 1300	0.5 1.0 1.5	140 300 900	275 500 1450	275 500 1450	<ul style="list-style-type: none"> • Flat drive unit with rigid, closed profile • Precision, resilient DUO guide rail • Ideal as a basic axis for linear gantries and cantilever axes
Recirculating ball bearing guide						
EGC-BS-KF						
	300 600 1300 3000	0.5 1.0 1.5 2.0	16 36 144 529	132 228 680 1820	132 228 680 1820	<ul style="list-style-type: none"> • Rigid, closed profile • Precision, resilient guide rail • For extremely high requirements for speed force and precision • Space-saving position sensing
ELGA-BS-KF						
	300 600 1300 3000	0.5 1.0 1.5 2.0	16 36 104 167	132 228 680 1150	132 228 680 1150	<ul style="list-style-type: none"> • Internal guide and ball screw • Precision guide rail with high load capacity • For the highest requirements for feed force and precision • Guide and ball screw protected by cover strip • Space-saving position sensing
EGSK						
	57 133 184 239 392	0.33 1.10 0.83 1.10 1.48	13 28.7 60 79.5 231	3.7 9.2 20.4 26 77.3	3.7 9.2 20.4 26 77.3	<ul style="list-style-type: none"> • Spindle axes with maximum precision, compactness and rigidity • Recirculating ball bearing guide and ball screw without caged ball bearings • Standard designs in stock
EGSP						
	112 212 466 460	0.6 0.6 2.0 2.0	36.3 81.5 90.3 258	12.5 31.6 32.1 94	12.5 31.6 32.1 94	<ul style="list-style-type: none"> • Spindle axes with maximum precision, compactness and rigidity • Recirculating ball bearing guide with caged ball bearings • Ball screw sizes 33, 46 with caged ball bearings

Spindle axes EGC-HD-BS, with heavy-duty guide

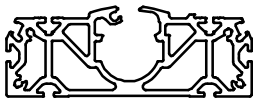
Key features

At a glance

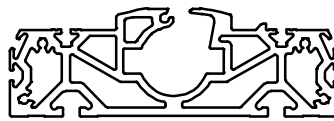
- New heavy-duty guide for:
 - Maximum loads and torques
 - High feed forces and speeds
 - Long service life
- Precision, resilient DUO guide rail
- Ideal as a basic axis for linear gantries and cantilever axes
- The spindle axis with integrated ball screw combines high precision and flexible spindle pitches
- In addition to its technical data, the spindle axis also offers an excellent price/performance ratio
- Space-saving position sensing with proximity sensor in the profile slot
- Wide range of options for mounting on drives
- Spindle support enables maximum travel speed with all stroke lengths

Flat unit with rigid, closed profile

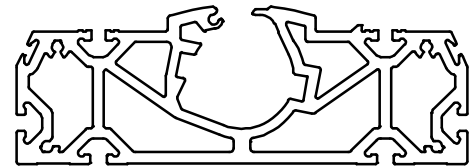
EGC-HD-125



EGC-HD-160



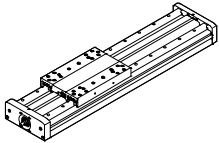
EGC-HD-220



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 section.

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]
Recirculating ball bearing guide										
	125	50 ... 900	0.5	±0.02	300	3650	3650	140	275	275
	160	50 ... 1900	1	±0.02	600	5600	5600	300	500	500
	220	50 ... 2400	1.5	±0.02	1300	13000	13000	900	1450	1450

-  Note

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Spindle axes EGC-HD-BS, with heavy-duty guide

Key features

Slide variants

Standard slide



Standard slide, protected



With additional slide



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

Spindle axis with recirculating ball bearing guide

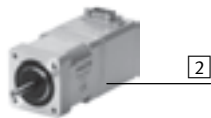


Motor

→ 24



1



2

- 1 Servo motor EMME-AS, 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

Technical data → Internet: motorcontroller



1



2

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

Mounting kit

Axial kit

→ 24

Parallel kit

→ 29



Spindle axes EGC-HD-BS, with heavy-duty guide

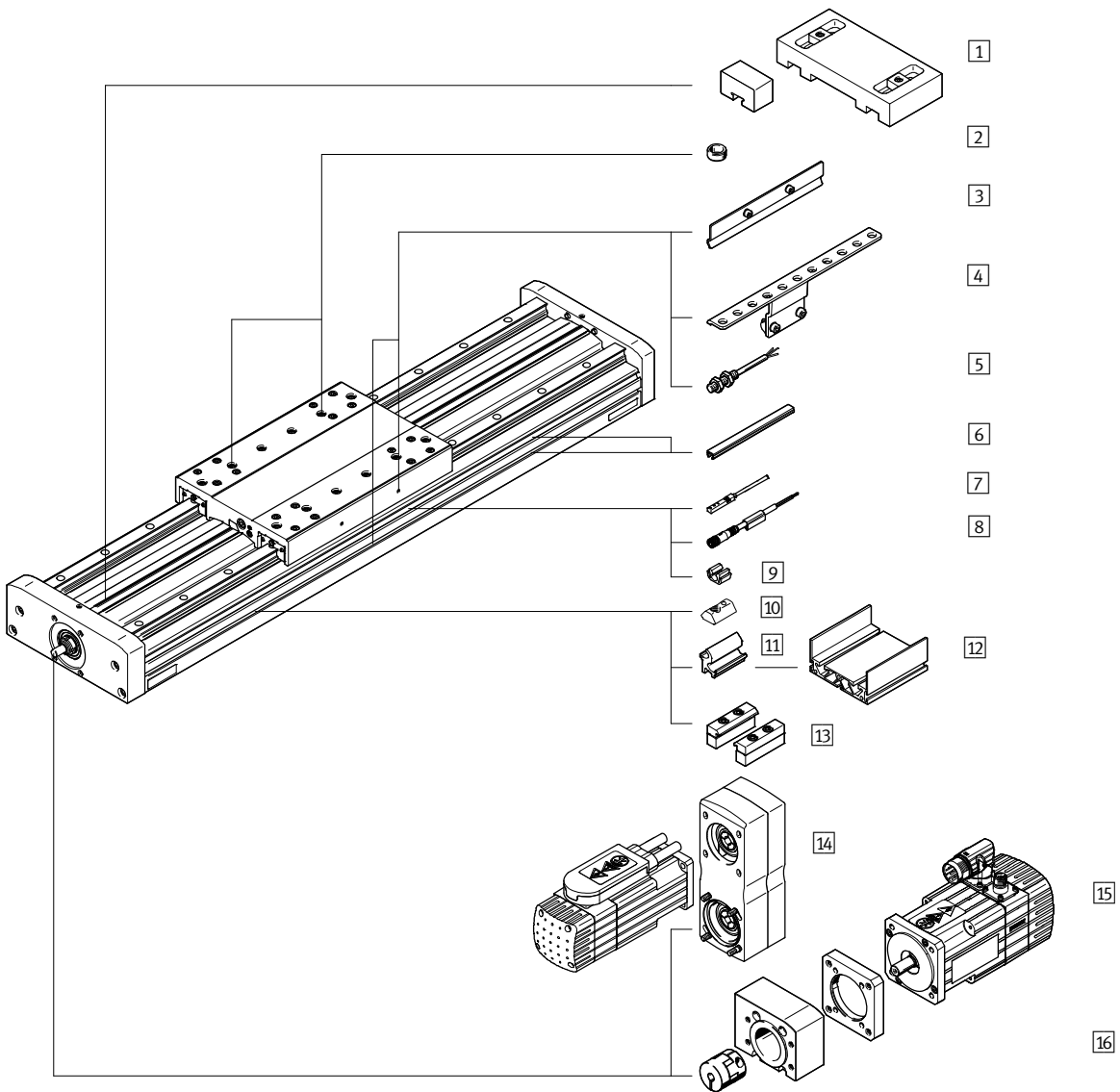
Type codes

	EGC	-	HD	-	160	-	500	-	BS	-	10	-		-	20	-	GK
Type																	
EGC	Spindle axis																
Guide																	
HD	Heavy-duty guide																
Size																	
Stroke [mm]																	
Drive function																	
BS	Spindle																
Spindle pitch																	
Spindle support																	
-	None																
S	With spindle support																
Stroke reserve																	
Slide																	
GK	Standard slide																
GP	Standard slide, protected																

		-		ZUB	-	2MX2Z	-	DN
Additional slide								
KL	Standard, left							
Additional slide								
KR	Standard, right							
Accessories enclosed separately								
...M	Profile mounting							
...B	Mounting slot cover							
...S	Sensor slot cover							
...Y	Slot nut for mounting slot							
...X	Proximity sensor (SIES), inductive, slot type 8, PNP, N/O contact, 7.5 m cable							
...Z	Proximity sensor (SIES), inductive, slot type 8, PNP, N/C contact, 7.5 m cable							
...A	Emergency buffer with retainer							
...O	Proximity sensor (SIEN), inductive, M8, PNP, N/O contact, 2.5 m cable							
...P	Proximity sensor (SIEN), inductive, M8, PNP, N/C contact, 2.5 m cable							
...W	Proximity sensor (SIEN), inductive, M8, PNP, N/O contact, plug M8							
...R	Proximity sensor (SIEN), inductive, M8, PNP, N/C contact, plug M8							
...V	Connecting cable							
...CL	Cable clip							
Operating instructions								
DN	None							

Spindle axes EGC-HD-BS, with heavy-duty guide

Peripherals overview



Spindle axes EGC-HD-BS, with heavy-duty guide

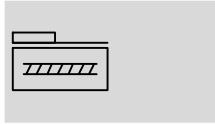
Peripherals overview




Variants and accessories		
Type	Description	→ Page/Internet
1 Emergency buffer with retainer A	For avoiding damage at the end stop in the event of malfunction	32
2 Centring pin/sleeve ZBS, ZBH	<ul style="list-style-type: none"> For centring loads and attachments on the slide 2 centring pins/sleeves included in the scope of delivery of the axis 	34
3 Switch lug X, Z, O, P, W, R	For sensing the slide position	32
4 Sensor bracket O, P, W, R	Adapter for mounting the inductive proximity sensors (round design) on the axis	33
5 Proximity sensor, M8 O, P, W, R	<ul style="list-style-type: none"> Inductive proximity sensor, round design The order code O, P, W, R includes 1 switch lug and max. 2 sensor brackets 	35
6 Slot cover B, S	<ul style="list-style-type: none"> For protecting against the ingress of dirt 	34
7 Proximity sensor, T-slot X, Z	<ul style="list-style-type: none"> Inductive proximity sensor, for T-slot The order code X, Z includes 1 switch lug 	34
8 Connecting cable V	For proximity sensor (order code W and R)	36
9 Clip CL	For mounting the proximity sensor cable in the slot	34
10 Slot nut Y	For mounting attachments	34
11 Adapter kit DHAM	For mounting the support profile on the axis	35
12 Auflageprofil HMIA	For mounting and guiding an energy chain	35
13 Profile mounting M	For mounting the axis on the profile	31
14 Parallel kit EAMM-U	For parallel motor mounting, pointing upwards or downwards only (consisting of: housing, clamping component, toothed belt pulley, toothed belt)	29
15 Motor EMME, EMMS	Motors specially matched to the axis, with or without gear unit, with or without brake	24
16 Axial kit EAMM-A	For axial motor mounting (consisting of: coupling, coupling housing and motor flange)	24

Spindle axes EGC-HD-BS, with heavy-duty guide

Technical data

Function



-  - Size
125 ... 220
-  - Stroke length
50 ... 2400 mm
-  - www.festo.com



General technical data						
Size		125	160			220
Spindle pitch	[mm/ rev.]	10	10	20	10	25
Design	Electromechanical axis with recirculating ball spindle					
Guide	Recirculating ball bearing guide					
Mounting position	Any					
Working stroke	[mm]	50 ... 900	50 ... 1900			50 ... 2400
Max. feed force F_x	[N]	300	600			1300
No-load torque at min. travel speed t						
EGC-...-	[Nm]	0.3	0.5	0.5	1.5	1.5
EGC-...-S	[Nm]	0.3	0.5	0.5	1.5	1.5
	[m/s]	0.05	0.1	0.1	0.2	0.2
No-load torque at max. travel speed t						
EGC-...-	[Nm]	0.45	0.75	0.75	2.25	2.25
EGC-...-S	[Nm]	0.45	0.75	0.75	2.25	2.25
	[m/s]	0.5	0.5	1.0	0.6	1.5
Max. radial force ¹⁾	[N]	220	250	250	500	500
Max. speed ²⁾	[1/min]	3000	3000	3000	3600	3600
Max. acceleration	[m/s ²]	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 [g]				
Size		125	160	220
Basic weight with 0 mm stroke ¹⁾		4123	7210	19137
Additional weight per 10 mm stroke		90	138	250
Slide				
EGC-...-GK		1049	2080	5826
EGC-...-GP		-	2346	6325
Additional slide				
EGC-...-GK		978	1963	5505
EGC-...-GP		-	2035	5584

- 1) Incl. slide

Spindle axes EGC-HD-BS, with heavy-duty guide

Technical data

Spindle						
Size		125		160		220
Diameter	[mm]	12		15		25
Pitch	[mm/rev.]	10	10	20	10	25

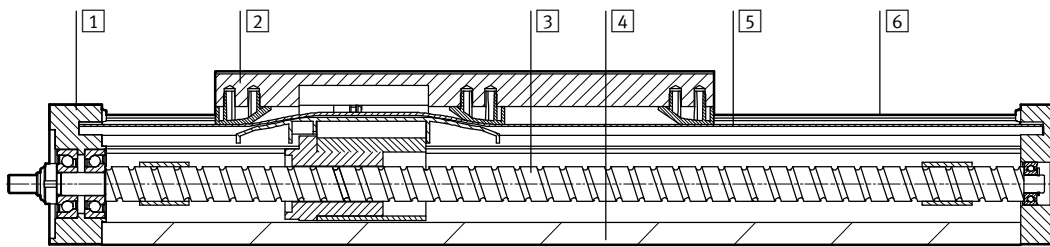
Mass moment of inertia						
Size		125		160		220
Spindle pitch	[mm/rev.]	10	10	20	10	25
J_0	[kg mm ²]	6.06	13.94	29.74	106.78	184.26
J_S per metre stroke	[kg mm ² /m]	14.20	34.59	34.59	275.64	275.64
J_L per kg effective load	[kg mm ² /kg]	2.53	2.53	10.13	2.53	15.83
J_W Additional slide	[kg mm ²]	2.25	4.69	18.77	13.20	82.48

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

$$J_A = J_0 + J_W + J_S \times \text{working stroke [m]} + J_L \times m_{\text{effective load [kg]}}$$

Materials

Sectional view



Axis		
1	Drive cover	Anodised wrought aluminium alloy
2	Slide	Anodised wrought aluminium alloy
3	Spindle	Steel
4	Profile	Anodised wrought aluminium alloy
5	Cover strip	Polyurethane
6	Guide rail	Coated and corrosion-resistant steel
Note on materials		Conforms to RoHS
		Contains PWIS (paint-wetting impairment substances)

Spindle axes EGC-HD-BS, with heavy-duty guide

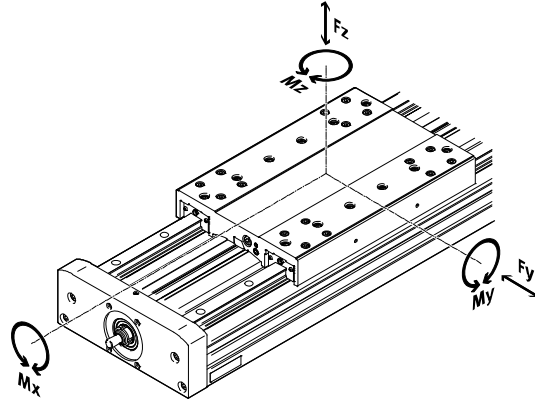
Technical data



Characteristic load values

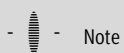
The indicated forces and torques refer to the slide surface. The point of application of force is the point where the centre of the guide and the longitudinal centre of the slide intersect.

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



Max. permissible forces and torques for a service life of 5000 km						
Size		125	160	220		
F _{y,max.}	[N]	3650	5600	13000		
F _{z,max.}	[N]	3650	5600	13000		
M _{x,max.}	[Nm]	140	300	900		
M _{y,max.}	[Nm]	275	500	1450		
M _{z,max.}	[Nm]	275	500	1450		

Basic load ratings						
Size		125	160	220		
Spindle pitch		10	10	20	10	25
Ball screw						
Dynamic c _{dyn,BS}	[N]	4000	6820	7480	16000	13700



Note

For a service life of 5000 km for the guide system, the load comparison factor must have a value of $f_v < 1$,

based on the maximum permissible forces and torques for a service life of 5000 km.

If the axis is simultaneously subjected to several of the indicated forces and torques, the following equation

must be satisfied in addition to the indicated maximum loads:

Calculating the load comparison factor:

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

Spindle axes EGC-HD-BS, with heavy-duty guide

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. You must consult your local contact

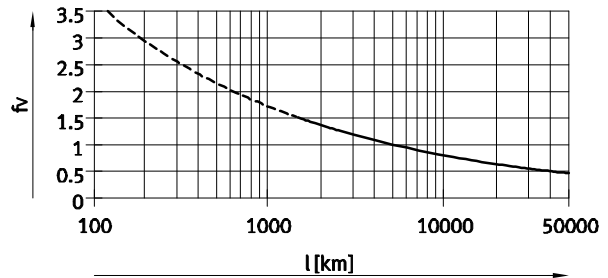
person at Festo for load comparison factors f_v greater than 1.5.

Load comparison factor f_v as a function of service life

Example:

A user wants to move an X kg load. Using the formula $\rightarrow 12$ 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. 1500 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 5000 km.



-  - Note

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The guide workload for a service life of 5000 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.

Comparison of the characteristic load values for 5000 km with dynamic forces and torques of recirculating ball bearing guides

The characteristic load values of roller bearing guides are standardised to ISO and JIS using dynamic and static forces and torques. These forces and torques are based on an expected service life for the guide system of 100 km to ISO or 50 km to JIS.

As the characteristic load values are dependent on the service life, the max. permissible forces and torques for a service life of 5000 km cannot be compared with the dynamic forces and torques of roller bearing guides to ISO/JIS.

To make it easier to compare the guide capacity of linear axes EGC with roller bearing guides, the table below lists the theoretically permissible forces and torques for a calculated service life of 100 km. This corresponds to the dynamic forces and torques to ISO.

These 100 km values have been calculated mathematically and are only to be used for comparing with dynamic forces and torques to ISO. The drives must not be loaded with these characteristic values as this could damage them.

Max. permissible forces and torques for a theoretical service life of 100 km (from a guide perspective only)

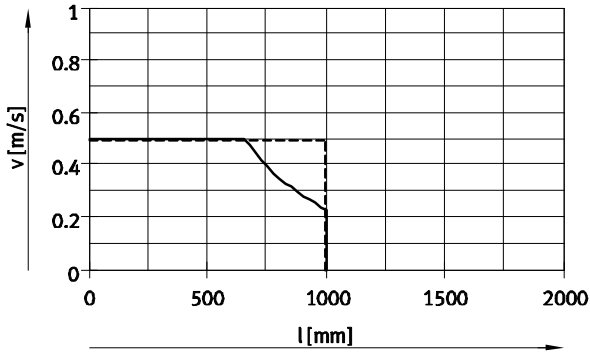
Size		125	160	220
$F_{y_{max}}$	[N]	13447	20631	47892
$F_{z_{max}}$	[N]	13447	20631	47892
$M_{x_{max}}$	[Nm]	516	1105	3316
$M_{y_{max}}$	[Nm]	1013	1842	5342
$M_{z_{max}}$	[Nm]	1013	1842	5342

Spindle axes EGC-HD-BS, with heavy-duty guide

Technical data

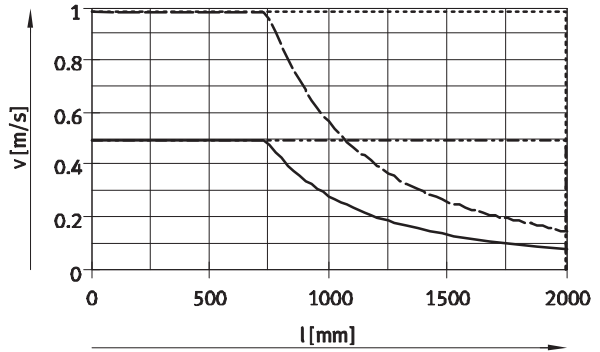
Speed v as a function of working stroke l

EGC-HD-125



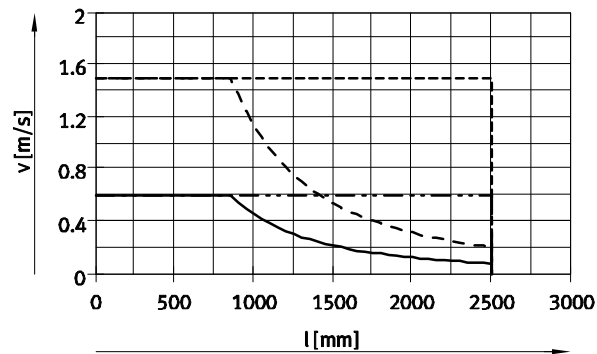
- EGC-HD-125-BS-10P without spindle support
- - - EGC-HD-125-BS-10P with spindle support

EGC-HD-160



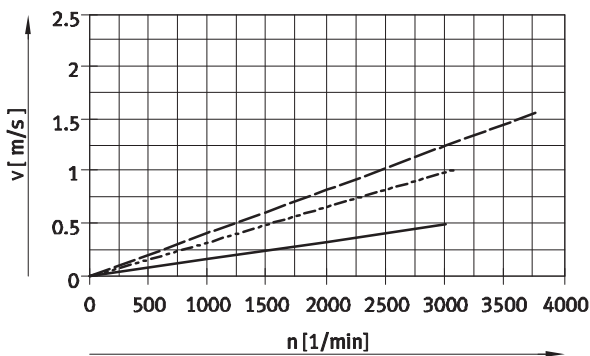
- EGC-160-10P without spindle support
- - - EGC-160-10P with spindle support
- · - EGC-160-20P without spindle support
- - - EGC-160-20P with spindle support


EGC-HD-220



- EGC-HD-220-BS-10P without spindle support
- - - EGC-HD-220-BS-10P with spindle support
- · - EGC-HD-220-BS-25P without spindle support
- - - EGC-HD-220-BS-25P with spindle support

Speed v as a function of rotational speed n



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

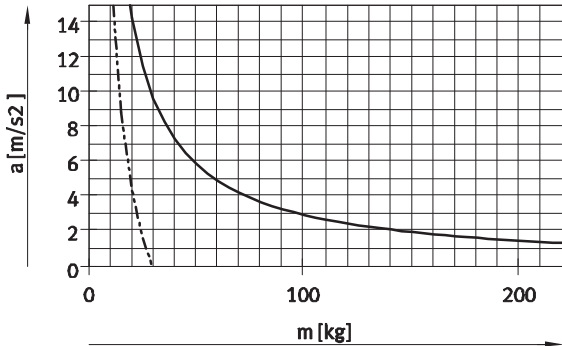
- EGC-HD-125/160/220-BS-10P
- - - EGC-HD-160-BS-20P
- · - EGC-HD-220-BS-25P

Spindle axes EGC-HD-BS, with heavy-duty guide

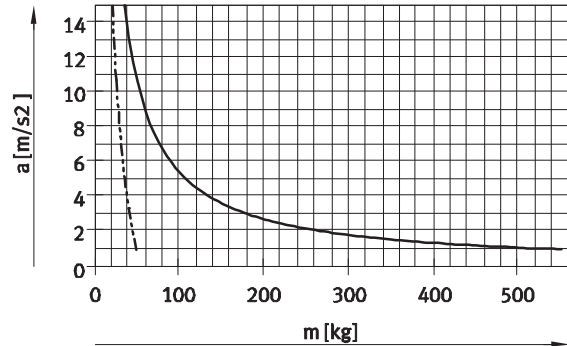
Technical data

Maximum acceleration a as a function of applied load m

EGC-HD-125

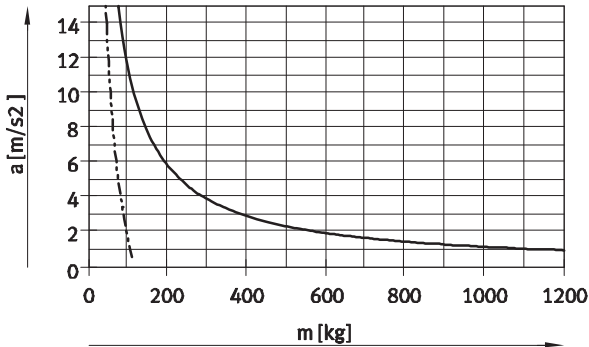


EGC-HD-160



Maximum acceleration a as a function of applied load m

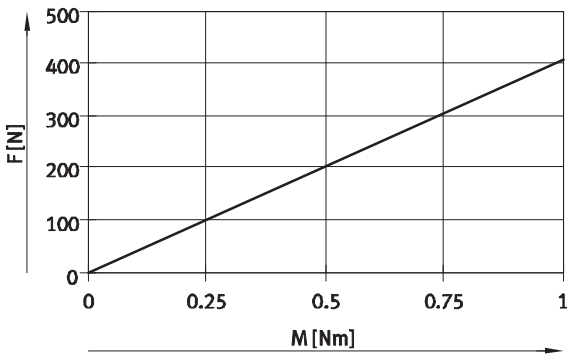
EGC-HD-220



— Horizontal mounting position
 - - - Vertical mounting position

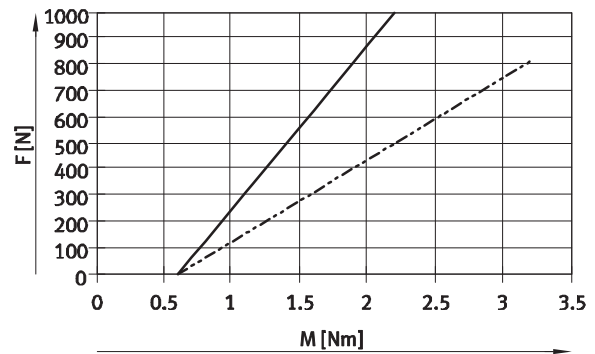
Theoretical feed force F as a function of input torque M

EGC-HD-125



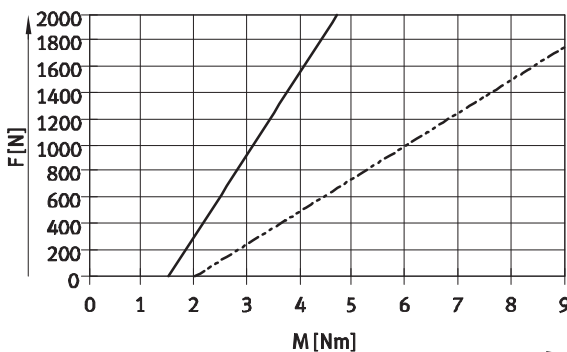
— EGC-HD-125-BS-10P

EGC-HD-160



— EGC-HD-160-BS-10P
 - - - EGC-HD-160-BS-20P

EGC-HD-220



— EGC-HD-220-BS-10P
 - - - EGC-HD-220-BS-25P

Spindle axes EGC-HD-BS, with heavy-duty guide

Technical data

Stroke reserve			
Stroke length	Stroke reserve		
The selected stroke corresponds in principle to the required working stroke. The variant GK does not have a long-term lubrication unit 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.	A safety distance (similar to GK) between the drive cap and slide can be defined for the variants GP using the modular product system via the stroke reserve feature. With the variants GK, the stroke reserve and safety distance are added for each end position.	<ul style="list-style-type: none"> 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: Type: EGC-HD-125-500-BS-20H-... Working stroke = 500 mm 2x stroke reserve = 40 mm Total stroke = 540 mm (540 mm = 500 mm + 2x 20 mm)
Size	125	160	220
L = safety distance with GK [mm] (per end position)	12.5	15.5	20

Working stroke reduction

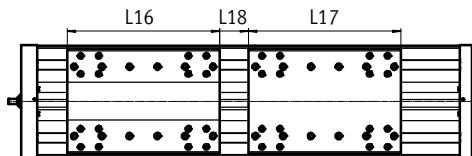
With standard slide GK/GP with additional slide KL/KR

- With a spindle axis with additional slide, the working stroke is reduced by the length of the additional slide L17 and the distance between both slides L18
- If the variant GP is ordered, the additional slide is also protected

L16 = Length of slide
 L17 = Length of additional slide
 L18 = Distance between both slides

Example:
 Type: EGC-HD-220-1000-BS-...-GP-KR
 L18 = 100 mm

Working stroke = 1000 mm - 328 mm - 100 mm = 572 mm



Dimensions – Additional slide					
Size	125	160	220		
Variant	GK	GK	GP	GK	GP
Length L17 [mm]	202	220	250	302	328

Working stroke reduction per side

With integrated emergency buffer NPE with retainer EAYH-L2

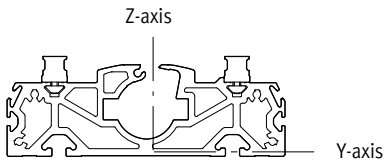
- With a spindle axis, the working stroke is reduced by the total dimension of the emergency buffer and retainer.

Size	125	160	220
With emergency buffer [mm]	65	93	98

Spindle axes EGC-HD-BS, with heavy-duty guide

Technical data

Second moment of area

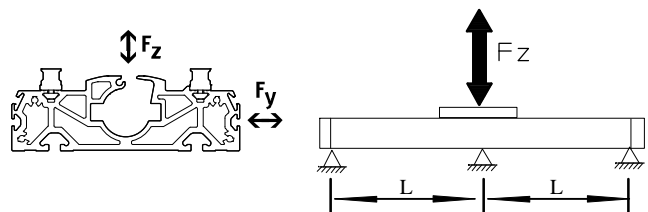


Size		125	160	220
I_y	[mm ⁴]	7.15×10^5	13.5×10^5	55.7×10^5
I_z	[mm ⁴]	41.1×10^5	101×10^5	352×10^5

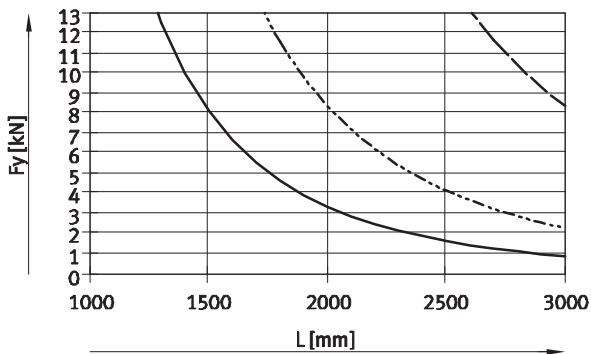
Maximum permissible support spacing L (without profile mounting) as a function of force F

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

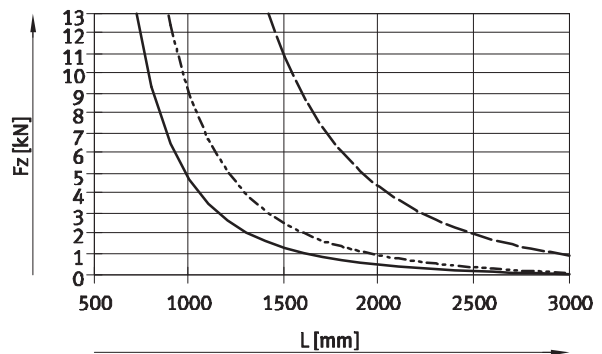
The following graphs help to determine the maximum permissible support spacing L as a function of force F acting on the axis. The deflection is $f = 0.5$ mm.



Force F_y



Force F_z



- EGC-HD-125-BS
- - - EGC-HD-160-BS
- · - EGC-HD-220-BS

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 (moving load)	Stat. deflection (stationary load)
125 ... 220	0.05% of the axis length, max. 0.5 mm	0.1% of the axis length

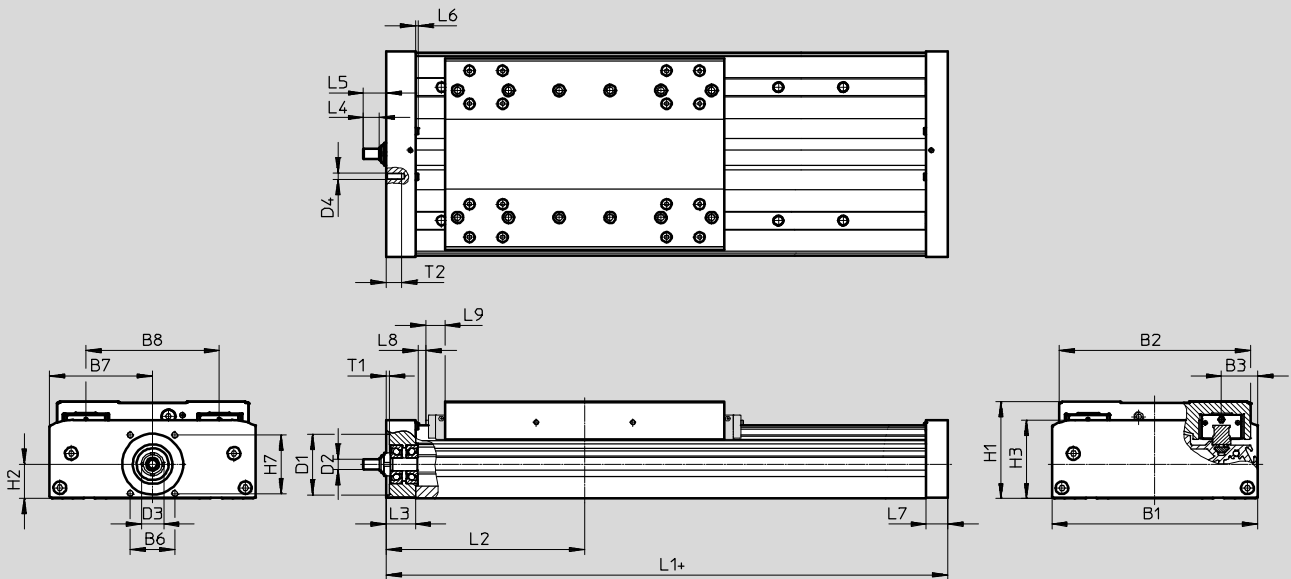
Spindle axes EGC-HD-BS, with heavy-duty guide

Technical data

FESTO

Dimensions

Download CAD data → www.festo.com



+ = plus stroke length + 2x stroke reserve

L9 With GP: dimension for long-term lubrication unit → 16

Size	B1	B2	B3	B6	B7	B8	D1 ∅ H7	D2 ∅ h6
125	124	120	21	29	62	80	38	6
160	162	150.7	27.5	35	81	105	48	8
220	224	204.2	40	64	112	140	62	12

Size	D3	D4	H1	H2	H3	H7	L3	L4
125	15	M5	64	22.5	50.5	36	21	8
160	18	M5	76.5	27	62	46	23	12.5
220	28	M6	111.5	42.5	89.5	54	33	17.5

Size	L5	L6	L7	L8	L9	T1	T2
125	14	1.8	16	2	-	2.5	12
160	18	2	17	0.55	14.9	2.5	12
220	25.5	2	30	2	18	3	15

Size	Stroke	L1	L2 min.
125	≤900	268	136.5
160	<1377	296	151.3
	≥1377	336	171
220	<1604	409	206
	≥1604	469	236

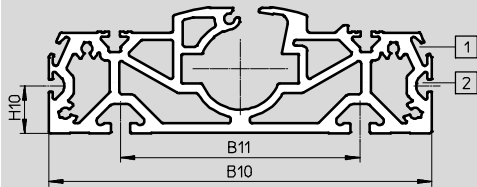
Spindle axes EGC-HD-BS, with heavy-duty guide

Technical data

Dimensions

Download CAD data → www.festo.com

Profile

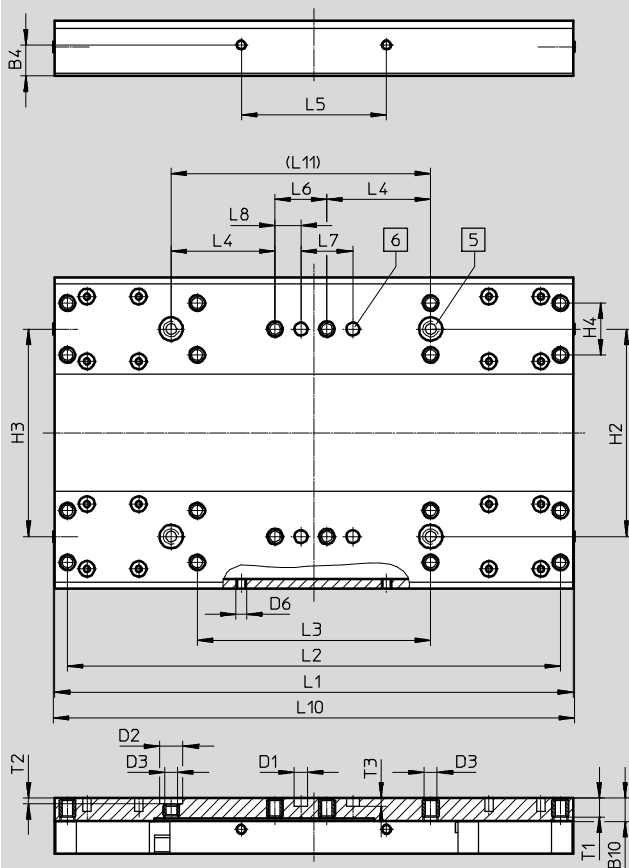


- 1 Sensor slot for proximity sensor
- 2 Mounting slot for slot nut

Size	B10	B11	H10
125	122	80	20
160	160	100	20
220	220	140	20

GK – Standard slide

Size 125



- 5 Hole for centring sleeve ZBH
- 6 Hole for centring pin ZBS

Size	B4	B10	D1 ∅	D2 ∅	D3	D6	H2	H3	H4	L1	L2	L3
	±0.1		H7	H7			±0.03	±0.05	±0.1	±0.1	±0.2	±0.1
125	12	9	5	9	M5	M4	80	80	20	200	190	90

Size	L4	L5	L6	L7	L8	L10	L11	T1	T2	T3
	±0.1	±0.2	±0.1	±0.03	±0.1		±0.03		+0.1	+0.1
125	40	56	20	20	10	202	100	7.8	2.1	3.1

Spindle axes EGC-HD-BS, with heavy-duty guide

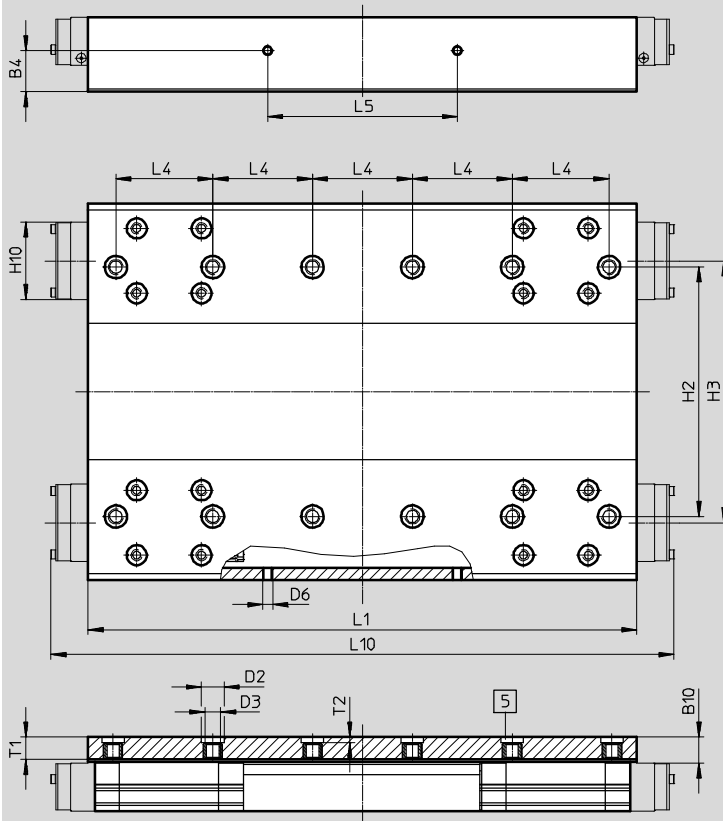
Technical data

Dimensions

Download CAD data → www.festo.com

GK – Standard slide/GP – Standard slide, protected

Size 160



5 Hole for centring sleeve ZBH

Size	B4	B10 ^{*)}	D2 ∅ H7	D3	D6	H2	H3
160	16.5 ±0.1	10.5	9	M6	M4	100 ±0.03	105 ±0.05

Size	H10 ^{*)}	L1	L4	L5	L10 ^{*)}	T1	T2
160	31	220 ±0.1	40 ±0.03	76 ±0.1	250	9	2.1 +0.1

^{*)} Protected version

Spindle axes EGC-HD-BS, with heavy-duty guide

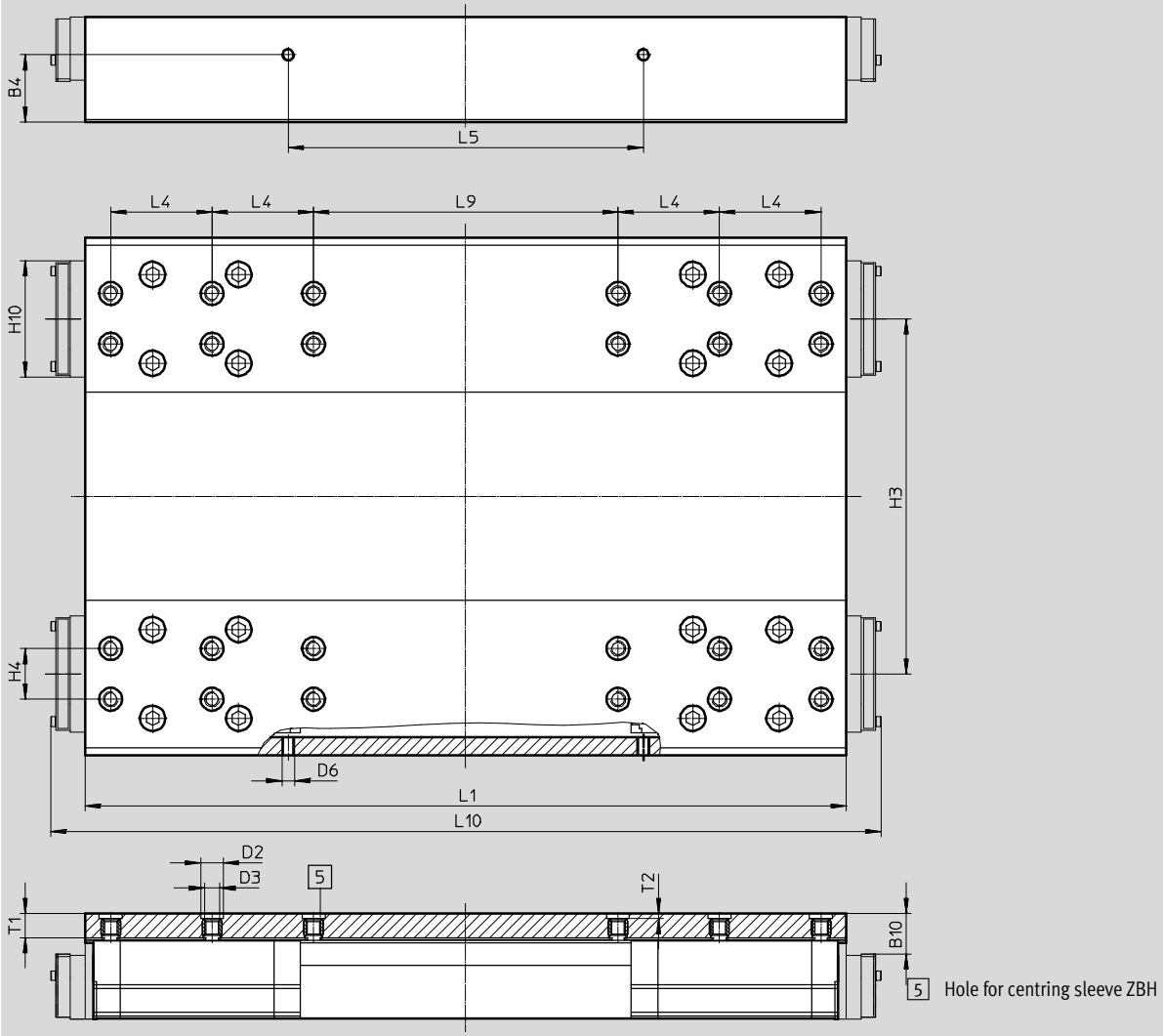
Technical data

Dimensions

Download CAD data → www.festo.com

GK – Standard slide/GP – Standard slide, protected

Size 220



Size	B4	B10 ^{*)}	D2 ∅ H7	D3	D6	H3	H4	H10 ^{*)}
220	±0.1	16	9	M6	M5	±0.05	±0.03	45.95

Size	L1	L4	L5	L9	L10 ^{*)}	T1	T2
220	±0.1	±0.03	±0.1	±0.03	328	9.5	2.1

^{*)} Protected version

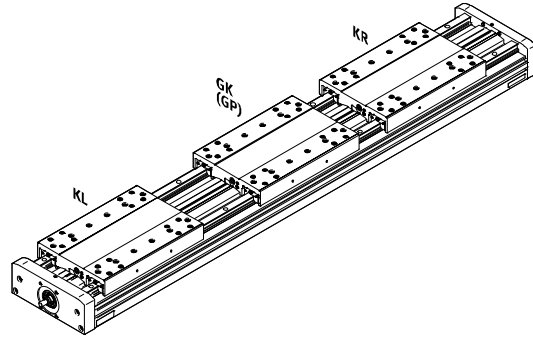
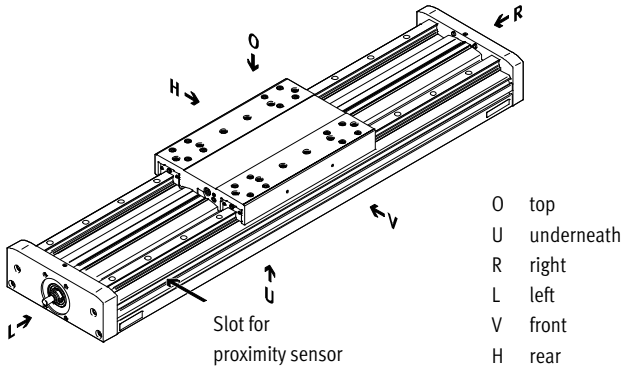
Spindle axes EGC-HD-BS, with heavy-duty guide

Ordering data – Modular products

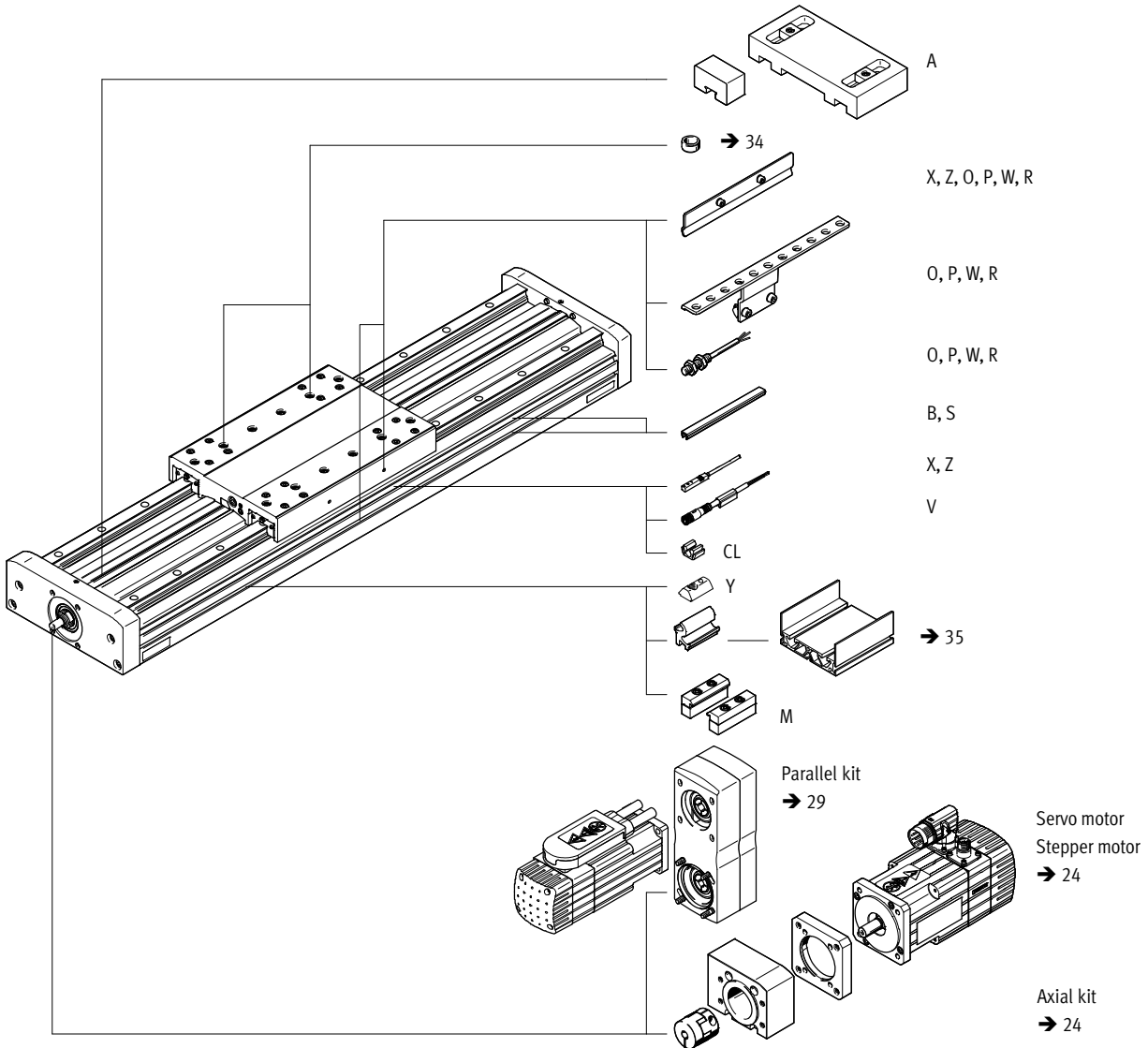


Order code

Mandatory data



Accessories



Spindle axes EGC-HD-BS, with heavy-duty guide

Ordering data – Modular products

Ordering table							
Size	125	160	220	Condi- tions	Code		Enter code
M Module No.	556819	556820	556821				
Design	Linear axis				EGC		EGC
Guide	Heavy-duty guide				-HD		-HD
Size	125	160	220		-...		-...
Stroke (without stroke reserve)	[mm] 100, 200, 300, 400, 500, 600, 700, 900	100; 200; 400; 500; 700; 900; 1300; 1400; 1700; 1900	100; 200; 400; 500; 700; 900; 1300; 1400; 1900; 2400	[1]	-...		-...
Stroke	[mm] 50 ... 900	50 ... 1900	50 ... 2400				
Function	Ball screw spindle				-BS		-BS
Spindle pitch	10	10	10		-10P		
	-	20	-		-20P		
	-	-	25		-25P		
Spindle support	None						
	With spindle support			[4]	-S		
	> 605 mm	> 680 mm	> 783 mm				
Stroke reserve	[mm] 0 ... 999 (0 = no stroke reserve)			[1]	-...H		
Slide	Standard slide				-GK		
	-	Standard slide, protected			-GP		
O Additional slide	Left	Additional slide, standard, on left		[2]	-KL		
	Right	Additional slide, standard, on right		[2]	-KR		
Accessories	Accessories enclosed separately				ZUB-		ZUB-
Profile mounting	1 ... 50				...M		
Cover	Mounting slot	1 ... 50 (1 = 2x 500 mm pieces)		[5]	...B		
	Sensor slot	1 ... 50			...S		
Slot nut for mounting slot	1 ... 99			[5]	...Y		
Proximity sensor (SIES), inductive, slot type 8, PNP, incl. switch lug	N/O contact, 7.5 m cable	1 ... 6			...X		
	N/C contact, 7.5 m cable	1 ... 6			...Z		
Emergency buffer with retainer	1 ... 2			[3]	...A		
Proximity sensor (SIEN), inductive, M8, PNP, incl. switch lug with sensor	N/O contact, 2.5 m cable	1 ... 99			...O		
	N/C contact, 2.5 m cable	1 ... 99			...P		
bracket	N/O contact, plug M8	1 ... 99			...W		
	N/C contact, plug M8	1 ... 99			...R		
Connecting cable, M8, 3-wire, 2.5 m	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 http://www.festo.com)				-DN		

- [1] -... The sum of the stroke length in mm and 2x the stroke reserve in mm must not exceed the maximum stroke length in mm.
- [2] **KL, KR** If the protected slide variant (GP) is selected, then the additional slide (KL, KR) is also protected.


- [3] ... **A** Cannot be combined with slide GP.
- [4] **S** Only available above the specified strokes.
- [5] **B, Y** Scope of delivery with size 160 for both slot sizes (→ 34).

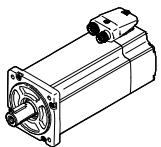
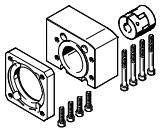
- M** Mandatory data
- O** Options

Order code

Spindle axes EGC-HD-BS, with heavy-duty guide

Accessories

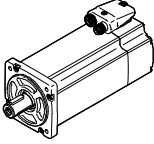
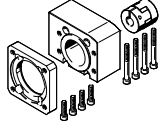
-  - Note
 Depending on the combination of motor and drive, it may not be possible to reach the maximum feed force of the drive.
 The respective no-load driving torque of the kit must be taken into consideration when using parallel kits.

Permissible axis/motor combinations with axial kit – without gear unit		Technical data → Internet: eamm-a	
Motor ¹⁾	Axial kit		
			
Type	Part No.	Type	
EGC-HD-125			
With servo motor			
EMME-AS-40-...	2219044	EAMM-A-S38-40P ²⁾	
	3637972	EAMM-A-S38-40P-G2	
EMMS-AS-40-...	558162	EAMM-A-S38-40A ²⁾	
	3637971	EAMM-A-S38-40A-G2	
EMMS-AS-55-...	558163	EAMM-A-S38-55A ²⁾	
	3637967	EAMM-A-S38-55A-G2	
EMME-AS-60-...	2219110	EAMM-A-S38-60P ²⁾	
	3637958	EAMM-A-S38-60P-G2	
With stepper motor			
EMMS-ST-42-...	560685	EAMM-A-S38-42A ²⁾	
	3637965	EAMM-A-S38-42A-G2	
EMMS-ST-57-...	560686	EAMM-A-S38-57A ²⁾	
	3637956	EAMM-A-S38-57A-G2	
With integrated drive			
EMCA-EC-67-...	1456638	EAMM-A-S38-67A-G2	
EGC-HD-160			
With servo motor			
EMMS-AS-55-...	558164	EAMM-A-S48-55A ²⁾	
	3637961	EAMM-A-S48-55A-G2	
EMME-AS-60-...	2220560	EAMM-A-S48-60P ²⁾	
	3637964	EAMM-A-S48-60P-G2	
EMMS-AS-70-...	558165	EAMM-A-S48-70A ²⁾	
	3637957	EAMM-A-S48-70A-G2	
With stepper motor			
EMMS-ST-57-...	560687	EAMM-A-S48-57A ²⁾	
	3637963	EAMM-A-S48-57A-G2	
EMMS-ST-87-...	560688	EAMM-A-S48-87A ²⁾	
	3637962	EAMM-A-S48-87A-G2	

1) The input torque must not exceed the maximum permissible transferable torque of the axial kit.
 2) Type discontinued

Spindle axes EGC-HD-BS, with heavy-duty guide

Accessories

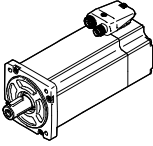
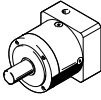
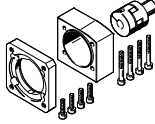
Permissible axis/motor combinations with axial kit – without gear unit			Technical data → Internet: eamm-a
Motor ¹⁾	Axial kit		
			
Type	Part No.	Type	
EGC-HD-220			
With servo motor			
EMMS-AS-70-...	558166	EAMM-A-S62-70A ²⁾	
	3637959	EAMM-A-S62-70A-G2	
EMME-AS-80-...	2222582	EAMM-A-S62-80P ²⁾	
	3637970	EAMM-A-S62-80P-G2	
EMME-AS-100-...	558167	EAMM-A-S62-100A ²⁾	
	3637960	EAMM-A-S62-100A-G2	
EMMS-AS-100-...	558167	EAMM-A-S62-100A ²⁾	
	3637960	EAMM-A-S62-100A-G2	
EMMS-AS-140-...	558168	EAMM-A-S62-140A ²⁾	
	3637969	EAMM-A-S62-140A-G2	
With stepper motor			
EMMS-ST-87-...	560689	EAMM-A-S62-87A ²⁾	
	3637966	EAMM-A-S62-87A-G2	

1) The input torque must not exceed the maximum permissible transferable torque of the axial kit.
 2) Type discontinued

Spindle axes EGC-HD-BS, with heavy-duty guide

Accessories

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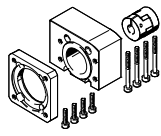

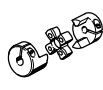
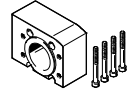

Permissible axis/motor combinations with axial kit – with gear unit			Technical data → Internet: eamm-a	
Motor ¹⁾	Gear unit	Axial kit		
				
Type	Type	Part-No.	Type	
EGC-HD-125				
With servo motor				
EMME-AS-40-...	EMGA-40-P-G...-EAS-40	1456647	EAMM-A-S38-40G-G2	
EMMS-AS-40-...	EMGA-40-P-G...-SAS-40	1456647	EAMM-A-S38-40G-G2	
With stepper motor				
EMMS-ST-42-...	EMGA-40-P-G...-SST-42	1456647	EAMM-A-S38-40G-G2	
With integrated drive				
EMCA-EC-67-...	EMGC-40-...	1456647	EAMM-A-S38-40G-G2	
EGC-HD-160				
With servo motor				
EMME-AS-40-...	EMGA-40-P-G...-EAS-40	1456650	EAMM-A-S48-40G-G2	
EMMS-AS-40-...	EMGA-40-P-G...-SAS-40	1456650	EAMM-A-S48-40G-G2	
EMMS-AS-55-...	EMGA-60-P-G...-SAS-55	2256701	EAMM-A-S48-60G-G2	
EMME-AS-60-...	EMGA-60-P-G...-EAS-60	1456652	EAMM-A-S48-60H-G2	
EMMS-AS-70-...	EMGA-60-P-G...-SAS-70	2256701	EAMM-A-S48-60G-G2	
With stepper motor				
EMMS-ST-42-...	EMGA-40-P-G...-SST-42	1456650	EAMM-A-S48-40G-G2	
EMMS-ST-57-...	EMGA-60-P-G...-SST-57	2256701	EAMM-A-S48-60G-G2	
With integrated drive				
EMCA-EC-67-...	EMGC-40-...	1456650	EAMM-A-S48-40G-G2	
	EMGC-60-...	1456652	EAMM-A-S48-40H-G2	
EGC-HD-220				
With servo motor				
EMMS-AS-55-...	EMGA-60-P-G...-SAS-55	2297649	EAMM-A-S62-60G-G2	
EMME-AS-60-...	EMGA-60-P-G...-EAS-60	1456654	EAMM-A-S62-60H-G2	
EMMS-AS-70-...	EMGA-60-P-G...-SAS-70	2297649	EAMM-A-S62-60G-G2	
EMMS-AS-70-...	EMGA-80-P-G...-SAS-70	1972530	EAMM-A-S62-80G-G2	
EMME-AS-80-...	EMGA-80-P-G...-EAS-80	1972530	EAMM-A-S62-80G-G2	
EMMS-AS-100-...	EMGA-80-P-G...-SAS-100	1972530	EAMM-A-S62-80G-G2	
With stepper motor				
EMMS-ST-57-...	EMGA-60-P-G...-SST-57	2297649	EAMM-A-S62-60G-G2	
EMMS-ST-87-...	EMGA-80-P-G...-SST-87	1472530	EAMM-A-S62-80G-G2	
With integrated drive				
EMCA-EC-67-...	EMGC-60-...	1456654	EAMM-A-S62-60H-G2	

1) The input torque must not exceed the maximum permissible transferable torque of the axial kit.

Spindle axes EGC-HD-BS, with heavy-duty guide

Accessories

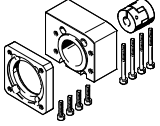


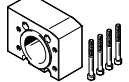

FESTO

Component parts of the axial kit – without gear unit				
Axial kit	Comprises:			
	Motor flange	Coupling	Coupling housing	Screw set
				
Part No. Type	Part No. Type	Part No. Type	Part No. Type	Part No. Type
EGC-HD-125				
558162 EAMM-A-S38-40A	558175 EAMF-A-38B-40A	558312 EAMC-30-32-6-6	558171 EAMK-A-S38-38A/B	–
3637971 EAMM-A-S38-40A-G2	558175 EAMF-A-38B-40A	558312 EAMC-30-32-6-6	3637942 EAMK-A-S38-38A/B-G2	–
1456647 EAMM-A-S38-40G-G2	1460097 EAMF-A-38A-40G	562681 EAMC-30-32-6-10	3637942 EAMK-A-S38-38A/B-G2	567488 EAHM-L2-M5-50
2219044 EAMM-A-S38-40P	2219077 EAMF-A-38B-40P	533708 EAMC-30-32-6-8	558171 EAMK-A-S38-38A/B	–
3637972 EAMM-A-S38-40P-G2	2219077 EAMF-A-38B-40P	533708 EAMC-30-32-6-8	3637942 EAMK-A-S38-38A/B-G2	–
560685 EAMM-A-S38-42A	560691 EAMF-A-38B-42A	561333 EAMC-30-32-5-6	558171 EAMK-A-S38-38A/B	–
3637965 EAMM-A-S38-42A-G2	560691 EAMF-A-38B-42A	561333 EAMC-30-32-5-6	3637942 EAMK-A-S38-38A/B-G2	–
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
3637967 EAMM-A-S38-55A-G2	558176 EAMF-A-38A-55A	551003 EAMC-30-32-6-9	3637942 EAMK-A-S38-38A/B-G2	567488 EAHM-L2-M5-50
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
3637956 EAMM-A-S38-57A-G2	560692 EAMF-A-38A-57A	551002 EAMC-30-32-6-6.35	3637942 EAMK-A-S38-38A/B-G2	567488 EAHM-L2-M5-50
2219110 EAMM-A-S38-60P	1987412 EAMF-A-38B-60P	1233256 EAMC-30-32-6-14	558171 EAMK-A-S38-38A/B	567489 EAHM-L2-M5-55
3637958 EAMM-A-S38-60P-G2	1987412 EAMF-A-38B-60P	1233256 EAMC-30-32-6-14	3637942 EAMK-A-S38-38A/B-G2	567489 EAHM-L2-M5-55
1456638 EAMM-A-S38-67A-G2	1490100 EAMF-A-38A-67A	551003 EAMC-30-32-6-9	3637942 EAMK-A-S38-38A/B-G2	567489 EAHM-L2-M5-55
EGC-HD-160				
1456650 EAMM-A-S48-40G-G2	4067069 EAMF-A-48B-40G	558029 EAMC-30-32-8-10	3637941 EAMK-A-S48-48A/B-G2	–
558164 EAMM-A-S48-55A	558177 EAMF-A-48B-55A	543423 EAMC-30-32-8-9	558172 EAMK-A-S48-48A/B	–
3637961 EAMM-A-S48-55A-G2	558177 EAMF-A-48B-55A	543423 EAMC-30-32-8-9	3637941 EAMK-A-S48-48A/B-G2	–
560687 EAMM-A-S48-57A	560694 EAMF-A-48B-57A	543421 EAMC-30-32-6.35-8	558172 EAMK-A-S48-48A/B	–
3637963 EAMM-A-S48-57A-G2	560694 EAMF-A-48B-57A	543421 EAMC-30-32-6.35-8	3637941 EAMK-A-S48-48A/B-G2	–

Spindle axes EGC-HD-BS, with heavy-duty guide

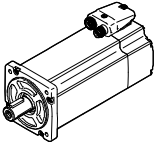
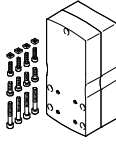
Accessories

FESTO

Component parts of the axial kit – without gear unit				
Axial kit	Comprises:			
	Motor flange	Coupling	Coupling housing	Screw set
				
Part No. Type	Part No. Type	Part No. Type	Part No. Type	Part No. Type
EGC-HD-160				
2256701 EAMM-A-S48-60G-G2	558019 EAMF-A-48A-60G/H	551004 EAMC-30-32-8-11	3637941 EAMK-A-S48-48A/B-G2	567489 EAHM-L2-M5-55
1456652 EAMM-A-S48-60H-G2	558019 EAMF-A-48A-60G/H	562682 EAMC-30-32-8-14	3637941 EAMK-A-S48-48A/B-G2	567489 EAHM-L2-M5-55
2220560 EAMM-A-S48-60P	2220620 EAMF-A-48A-60P	562682 EAMC-30-32-8-14	558172 EAMK-A-S48-48A/B	567489 EAHM-L2-M5-55
3637964 EAMM-A-S48-60P-G2	2220620 EAMF-A-48A-60P	562682 EAMC-30-32-8-14	3637941 EAMK-A-S48-48A/B-G2	567489 EAHM-L2-M5-55
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
3637957 EAMM-A-S48-70A-G2	558025 EAMF-A-48A-70A	551004 EAMC-30-32-8-11	3637941 EAMK-A-S48-48A/B-G2	567488 EAHM-L2-M5-50
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
3637962 EAMM-A-S48-87A-G2	560695 EAMF-A-48A-87A	551004 EAMC-30-32-8-11	3637941 EAMK-A-S48-48A/B-G2	567489 EAHM-L2-M5-55
EGC-HD-220				
2297649 EAMM-A-S62-60G-G2	1460112 EAMF-A-62A-60G/H	525864 EAMC-40-66-11-12	3637940 EAMK-A-S62-62A/B-G2	567495 EAHM-L2-M6-90
1456654 EAMM-A-S62-60H-G2	1460112 EAMF-A-62A-60G/H	1452803 EAMC-40-66-12-14	3637940 EAMK-A-S62-62A/B-G2	567495 EAHM-L2-M6-90
558166 EAMM-A-S62-70A	558179 EAMF-A-62B-70A	558313 EAMC-42-66-11-12	558173 EAMK-A-S62-62A/B	–
3637959 EAMM-A-S62-70A-G2	558179 EAMF-A-62B-70A	558313 EAMC-42-66-11-12	3637940 EAMK-A-S62-62A/B-G2	–
1972530 EAMM-A-S62-80G-G2	2116672 EAMF-A-62B-80G	2138701 EAMC-42-50-12-20	3637940 EAMK-A-S62-62A/B-G2	–
2222582 EAMM-A-S62-80P	2222624 EAMF-A-62B-80P	551005 EAMC-42-50-12-19	558173 EAMK-A-S62-62A/B	–
3637970 EAMM-A-S62-80P-G2	2222624 EAMF-A-62B-80P	551005 EAMC-42-50-12-19	3637940 EAMK-A-S62-62A/B-G2	–
560689 EAMM-A-S62-87A	560696 EAMF-A-62B-87A	558313 EAMC-42-66-11-12	558173 EAMK-A-S62-62A/B	–
3637966 EAMM-A-S62-87A-G2	560696 EAMF-A-62B-87A	558313 EAMC-42-66-11-12	3637940 EAMK-A-S62-62A/B-G2	–
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
3637960 EAMM-A-S62-100A-G2	558026 EAMF-A-62A-100A	551005 EAMC-42-50-12-19	3637940 EAMK-A-S62-62A/B-G2	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
3637969 EAMM-A-S62-140A-G2	558022 EAMF-A-62A-140A	558314 EAMC-42-50-12-24	3637940 EAMK-A-S62-62A/B-G2	567495 EAHM-L2-M6-90

Spindle axes EGC-HD-BS, with heavy-duty guide

Accessories

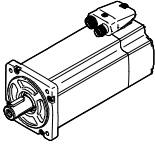
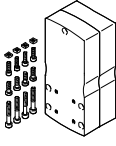
Permissible axis/motor combinations with parallel kit		Technical data → Internet: eamm-u
Motor/gear unit ¹⁾	Parallel kit	
		<ul style="list-style-type: none"> • Increased housing rigidity • More flexible motor mounting possible • Larger toothed belt bending radii for improved service life • Components can only be mounted to the kit facing downwards • These parallel kits include a counter bearing EAMG for supporting the axis shaft. More information → online: eamm-u • Use in combination with third-party motors on request
Type	Part No.	Type
EGC-HD-125		
With servo motor		
EMME-AS-40-...	2155239	EAMM-U-50-S38-40P-78
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
With gear unit		
EMGA-40-P-...	2283732	EAMM-U-60-S38-40G-91
EMGC-40-P-...	2283732	EAMM-U-60-S38-40G-91
EGC-HD-160		
With servo motor		
EMMS-AS-55-...	1219370	EAMM-U-60-S48-55A-91
EMME-AS-60-...	2629253	EAMM-U-70-S48-60P-96
EMMS-AS-70-...	2787320	EAMM-U-70-S48-70A-96
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
With gear unit		
EMGA-40-P-...	2283760	EAMM-U-60-S48-40G-91
EMGC-40-P-...	2283760	EAMM-U-60-S48-40G-91
EMGA-60-P-...-SAS/SST ²⁾	2801627	EAMM-U-70-S48-60G-96
EMGA-60-P-...-EAS, EMGC-60-P-... ²⁾	2801715	EAMM-U-70-S48-60H-96
EMGA-60-P-...-SAS/SST ²⁾	1587251	EAMM-U-86-S48-60G-102
EMGA-60-P-...-EAS, EMGC-60-P-... ²⁾	1587338	EAMM-U-86-S48-60H-102

1) The input torque must not exceed the maximum permissible transferable torque of the parallel kit.
 2) Gear unit drive shaft diameter: EMGA-60-P-...-SAS/-SST11 mm; EMGA-60-P-...-EAS, EMGC-60-P14 mm


Spindle axes EGC-HD-BS, with heavy-duty guide

Accessories

FESTO

Permissible axis/motor combinations with parallel kit		Technical data → Internet: eamm-u	
Motor/gear unit ¹⁾	Parallel kit		
		<ul style="list-style-type: none"> • Increased housing rigidity • More flexible motor mounting possible • Larger toothed belt bending radii for improved service life • Components can only be mounted to the kit facing downwards • These parallel kits include a counter bearing EAMG for supporting the axis shaft. More information → online: eamm-u • Use in combination with third-party motors on request 	
Type	Part No.	Type	
EGC-HD-220			
With servo motor			
EMMS-AS-70-...	1217543	EAMM-U-86-S62-70A-177	
EMME-AS-80-...	2157004	EAMM-U-86-S62-80P-177	
EMME-AS-100-...	1217381	EAMM-U-110-S62-100A-207	
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	
With gear unit			
EMGA-60-P-...-SAS/SST...²⁾	1587411	EAMM-U-86-S62-60G-177	
EMGA-60-P-...-EAS, EMGC-60-P-.....²⁾	1587453	EAMM-U-86-S62-60H-177	

- 1) The input torque must not exceed the maximum permissible transferable torque of the parallel kit.
 2) Gear unit drive shaft diameter: EMGA-60-P-...-SAS/SST11 mm; EMGA-60-P-...-EAS, EMGC-60-P14 mm

-  - Note
 The clamping element EADT is required to adjust the toothed belt pretensioning for EAMM-U-110 and EAMM-U-145.

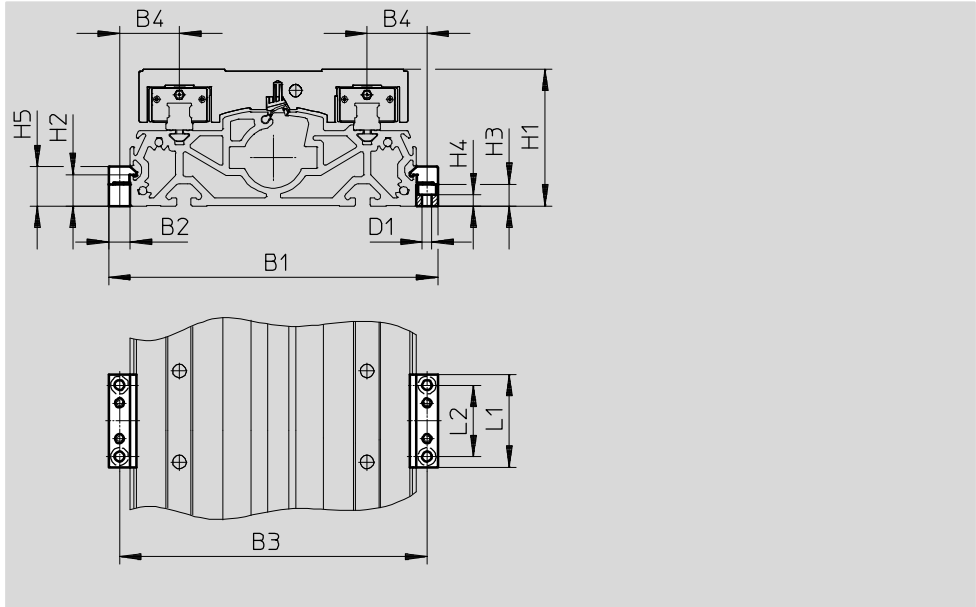
Spindle axes EGC-HD-BS, with heavy-duty guide

Accessories



Profile mounting MUE
(order code M)

Materials:
Anodised aluminium
RoHS-compliant



Dimensions and ordering data								
For size	B1	B2	B3	B4	D1 ∅	H1	H2	H3
125	146	12	134	27	5.5	64	17.5	12
160	184	12	172	33.5	5.5	76.5	17.5	12
220	258	19	239	49.5	9	111.5	16	14

For size	H4	H5	L1	L2	Weight [g]	Part No.	Type
125	6.2	22	52	40	80	558043	MUE-70/80
160	6.2	22	52	40	80	558043	MUE-70/80
220	5.5	29.5	90	40	290	558044	MUE-120/185

Spindle axes EGC-HD-BS, with heavy-duty guide

Accessories

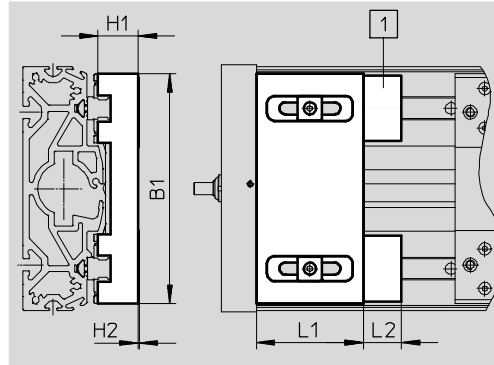
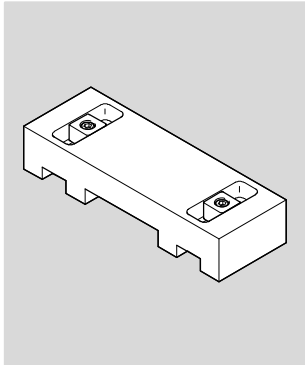


Retainer EAYH

Emergency buffer NPE → 34
(order code A)

Materials:
Anodised aluminium
RoHS-compliant

Cannot be used in combination with
the variants GP.



1 Emergency buffer NPE

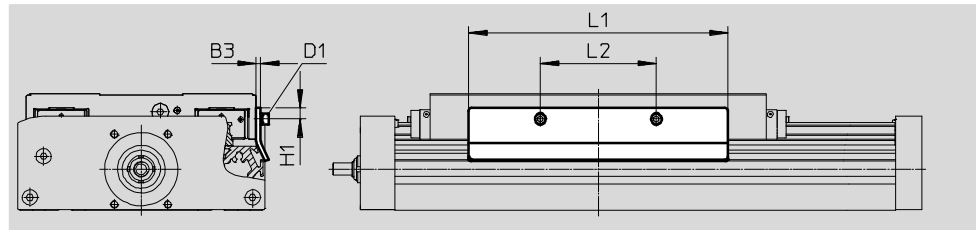
Dimensions and ordering data

For size	B1	H1	H2	L1	L2	Weight [g]	Part No.	Type
125	120	19.8	0.4	50	17	260	1662803	EAYH-L2-125-N
160	150.7	26.2	0.8	70	25	617	1669259	EAYH-L2-160-N
220	204	38.7	0.1	70	30	1195	1669260	EAYH-L2-220-N

Switch lug SF-EGC-HD-1

For sensing via proximity sensor
SIES-8M
(order code X or Z)

Materials:
Galvanised steel
RoHS-compliant



Dimensions and ordering data

For size	B3	D1	H1	L1	L2	Weight [g]	Part No.	Type
125	2	M4x8	7.8	150	56	70	570027	SF-EGC-HD-1-125
160	3	M4x8	7.3	170	76	160	1645872	SF-EGC-HD-1-160
220	3	M5x10	11.5	250	140	310	1645866	SF-EGC-HD-1-220

Spindle axes EGC-HD-BS, with heavy-duty guide

Accessories

Switch lug SF-EGC-HD-2

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

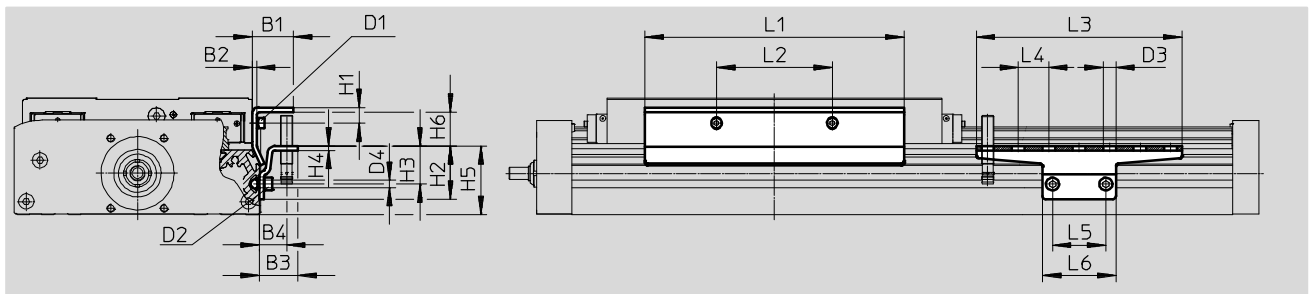
Materials:
Galvanised steel
RoHS-compliant



Sensor bracket HWS-EGC

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

Materials:
Galvanised steel
RoHS-compliant



Dimensions and ordering data										
For size	B1	B2	B3	B4	D1	D2	D3	D4	H1	H2
125	24	2	25.5	18	M4x8	M5x8	8.4	5.2	9	35
160	27	3	25.5	18	M4x8	M5x8	8.4	5.2	10.3	35
220	31	3	25.5	18	M5x10	M5x14	8.4	5.2	11.5	65

For size	H3	H4	H5	H6	L1	L2	L3	L4	L5	L6
125	25	3	45	14	150	56	135	20	35	48
160	25	3	45	22.2	170	76	135	20	35	48
220	55	3	75	18.4	250	140	215	20	35	48

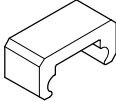


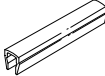
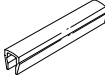

For size	Weight [g]	Part No.	Type
Switch lug			
125	122	570030	SF-EGC-HD-2-125
160	261	1645865	SF-EGC-HD-2-160
220	430	1645868	SF-EGC-HD-2-220

For size	Weight [g]	Part No.	Type
Sensor bracket			
125	110	558057	HWS-EGC-M5
160	110	558057	HWS-EGC-M5
220	217	570365	HWS-EGC-M8-B

Spindle axes EGC-HD-BS, with heavy-duty guide

Accessories

FESTO

Ordering data						
	For size	Comment	Order code	Part No.	Type	PU ¹⁾
Emergency buffer NPE						
	125	Use in combination with retainer EAYH	A	1662475	NPE-125	1
	160			1672593	NPE-160	
	220			1672598	NPE-220	
Slot nut NST						
	125, 160 ³⁾	For mounting slot	Y	150914	NST-5-M5	1
				8047843	NST-5-M5-10	10
				8047878	NST-5-M5-50	50
	160 ⁴⁾ , 220	For mounting slot	Y	150915	NST-8-M6	1
				8047868	NST-8-M6-10	10
				8047869	NST-8-M6-50	50
Centring pin/sleeve ZBS/ZBH²⁾						
	125	For slide	-	150928	ZBS-5	10
	125 ... 220			150927	ZBH-9	
Slot cover ABP						
	125, 160 ³⁾	For mounting slot Every 0.5 m	B	151681	ABP-5	2
	160 ⁴⁾ , 220			151682	ABP-8	
Slot cover ABP-S						
	125 ... 220	For sensor slot Every 0.5 m	S	563360	ABP-5-S1	2
Clip SMBK						
	125 ... 220	For sensor slot, for attaching the proximity sensor cables	CL	534254	SMBK-8	10

- 1) Packaging unit quantity
- 2) 2 centring pins/sleeves included in the scope of delivery of the axis
- 3) For mounting slot at side
- 4) For mounting slot underneath

Spindle axes EGC-HD-BS, with heavy-duty guide

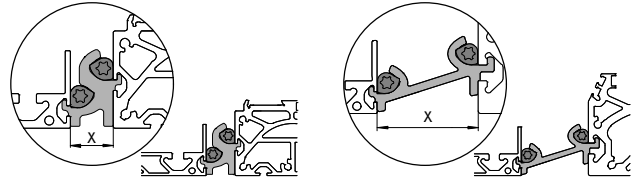
Accessories

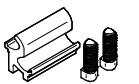
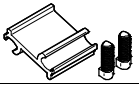
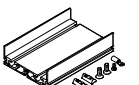
Mounting options between axis and support profile

Depending on the adapter kit, the spacing between the axis and the support profile is:
x = 20 mm or 50 mm

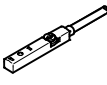
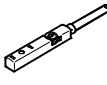
The support profile must be mounted using at least 2 adapter kits. For longer strokes, an adapter kit must be used every 500 mm.

Example:







Ordering data					
	For size	Comment	Part No.	Type	PU ¹⁾
Adapter kit DHAM					
	160	<ul style="list-style-type: none"> For mounting the support profile on the axis Spacing between axis and profile is 20 mm 	562241	DHAM-ME-N1-CL	1
	220		562242	DHAM-ME-N2-CL	
	125, 160	<ul style="list-style-type: none"> For mounting the support profile on the axis Spacing between axis and profile is 50 mm 	574560	DHAM-ME-N1-50-CL	
	220		574561	DHAM-ME-N2-50-CL	
Support profile HMIA					
	125 ... 220	<ul style="list-style-type: none"> For guiding an energy chain 	539379	HMIA-E07-	1



1) Packaging unit quantity

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

Spindle axes EGC-HD-BS, with heavy-duty guide

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
N/O contact							
	Cable, 3-wire	■	PNP	2.5	O	150386	SIEN-M8B-PS-K-L
	Plug connector M8x1, 3-pin	■	PNP	–	W	150387	SIEN-M8B-PS-S-L
N/C contact							
	Cable, 3-wire	■	PNP	2.5	P	150390	SIEN-M8B-PO-K-L
	Plug connector 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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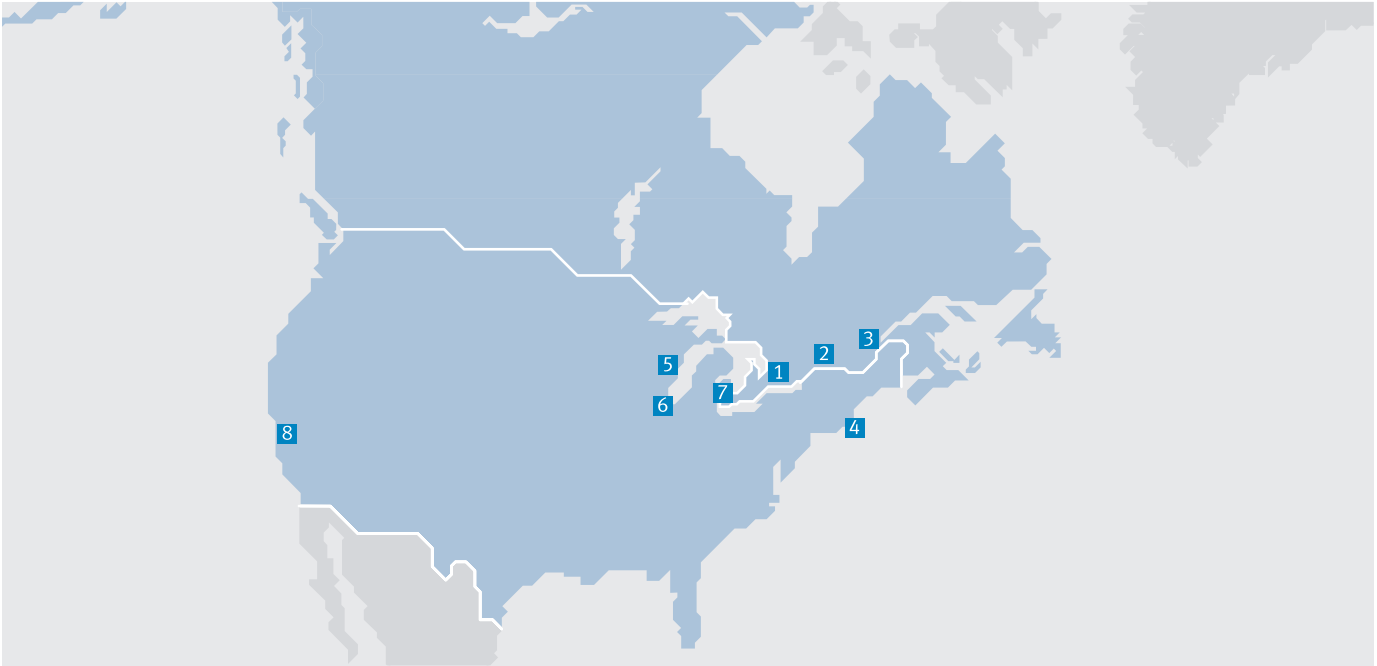


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