Toothed belt axes EGC-HD-TB, with heavy-duty guide

FESTO



Selection aid

Overview of toothed belt and spindle axes

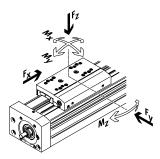
Toothed belt axes

- Speeds of up to 10 m/s
- ullet Acceleration of up to 50 m/s 2
- Repetition accuracy of up to ±0.08 mm
- Strokes of up to 8500 mm (longer strokes on request)
- Flexible motor mountings

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





e	F _x	v	Mx	My	Mz	Characteristics
	[N]	[m/s]	[Nm]	[Nm]	[Nm]	
avy-duty recirculating ball	bearing guide	•		•	•	
EGC-HD-TB						
	450	3	140	275	275	Flat drive unit with rigid, closed profile
	1000	5	300	500	500	Precision DUO guide rail with high load capacity
	1800	5	900	1450	1450	Ideal as a base axis for linear gantries and cantilever axes
circulating ball bearing gu	ide					
EGC-TB-KF						
\Diamond	50	3	3.5	10	10	Rigid, closed profile
	100	5	16	132	132	Precision guide rail with high load capacity
	350	5	36	228	228	Small drive pinions reduce required driving torque
	800	5	144	680	680	Space-saving position sensing
	2500	5	529	1820	1820	Space saving position sensing
W. J. C.			J47	1020	1020	
ELGA-TB-KF	•	,				
<u> </u>	350	5	16	132	132	Internal guide and toothed belt
	800	5	36	228	228	Precision guide rail with high load capacity
	1300	5	104	680	680	Guide and toothed belt protected by cover strip
	2000	5	167	1150	1150	High feed forces
ELGA-TB-KF-F1						
CLOA-ID-KI-II	260	5	16	132	132	Suitable for use in the food zone
	600	5	36	228	228	"Clean look": smooth, easy-to-clean surfaces
	1000	5	104	680	680	Internal guide and toothed belt
	1000	,	104	000	000	Precision guide rail with high load capacity
						Guide and toothed belt protected by cover strip
ELGC-TB-KF						
	75	1.2	5.5	4.7	4.7	Internal guide and toothed belt
	120	1.5	29.1	31.8	31.8	Precision guide rail with high load capacity
	250	1.5	59.8	56.2	56.2	Guide and toothed belt protected by cover strip
ELGR-TB	1					<u>'</u>
A.	> 50	3	2.5	20	20	Cost-optimised rod guide
	100	3	5	40	40	Ready-to-install unit
	350	3	15	124	124	Linear ball bearings with high load capacity for dynamic operation
		ا آ	1-7		1-2-7	zan zan ngo man nga ada aapaany ior aynamic operation
 						

Selection aid

Overview of toothed belt and spindle axes

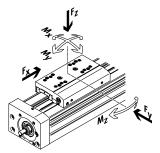
Toothed belt axes

- Speeds of up to 10 m/s
- ullet Acceleration of up to 50 m/s 2
- Repetition accuracy of up to ±0.08 mm
- Strokes of up to 8500 mm (longer strokes on request)
- Flexible motor mountings

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





Nm Nm Nm Nm Nm Nm Nm Nm	
Suitable for use in the food zo Source	
10	
Speeds of up to 10 m/s	
1300 10 100 640 640 • Speeds of up to 10 m/s	
ELGA-TB-RF-F1 260	ted by cover strip
ELGA-TB-RF-F1 260	
260 10 24 144 144 144 • "Clean look": smooth, easy-to- 1000 10 80 512 512 • For simple handling tasks 120 120 40 • As a drive component for extern 1000 10 10 10 10 10 10	uide rails
260 10 24 144 144 • "Clean look": smooth, easy-to- 1000 10 80 512 512 • Suitable for use in the food zo • "Clean look": smooth, easy-to- • Heavy-duty roller bearing guide • Guide and toothed belt protect • Lower weight than axes with g ELGA-TB-G 350	
600 10 24 144 144 • "Clean look": smooth, easy-to- 1000 10 80 512 512 • Heavy-duty roller bearing guide ELGA-TB-G 350 5 30 10 • Guide and toothed belt protect 800 5 10 60 20 • For simple handling tasks 1300 5 120 120 40 • As a drive component for exter • Insensitive to harsh ambient of	
ain-bearing guide ELGA-TB-G 350 5 10 60 20 For simple handling tasks 80 1300 5 120 120 40 Insensitive to harsh ambient of the simple specified in th	ne
• Guide and toothed belt protect • Lower weight than axes with g ain-bearing guide ELGA-TB-G 350 5 5 30 10 • Guide and toothed belt protect • For simple handling tasks • As a drive component for extert • Insensitive to harsh ambient of	clean surfaces
* Lower weight than axes with g ain-bearing guide ELGA-TB-G 350 5 5 30 10 • Guide and toothed belt protection of the	е
ain-bearing guide ELGA-TB-G 350 5 30 10 • Guide and toothed belt protection of the state of th	ted by cover strip
ELGA-TB-G 350 5 5 30 10 • Guide and toothed belt protect 800 5 10 60 20 • For simple handling tasks 1300 5 120 120 40 • As a drive component for externed in the second of	uide rails
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350 5 5 10 60 20 • Guide and toothed belt protect For simple handling tasks 1300 5 120 120 40 • Insensitive to harsh ambient of the simple handling tasks 120 120 40 • For simple handling tasks 120 • As a drive component for extension to the simple handling tasks 120 • Insensitive to harsh ambient of the simple handling tasks 120 • Insensitive tasks	
800 5 10 60 20 • For simple handling tasks • As a drive component for extent • Insensitive to harsh ambient of	
1300 5 120 120 40 • As a drive component for extent • Insensitive to harsh ambient of	ted by cover strip
Insensitive to harsh ambient of	
	nal guides
FIGR-IB-GF	onditions
FIGR-TB-GF	
50 1 1 10 10 • Cost-optimised rod guide	
100 1 2.5 20 20 • Ready-to-install unit	
350 1 40 40 • Heavy-duty plain bearings for	use in harsh ambient conditions
The state of the s	

Selection aid

Overview of toothed belt and spindle axes

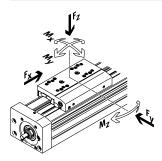
Toothed belt axes

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Spindle axes

- Speeds of up to 2 m/s
- Acceleration of up to 20 m/s^2
- Repetition accuracy of up to ±0.003 mm
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indle axes						
oe .	F _x	V	Mx	My	Mz	Characteristics
	[N]	[m/s]	[Nm]	[Nm]	[Nm]	
avy-duty recirculating ball b	earing guide					
EGC-HD-BS						
	400	0.5	140	275	275	Flat drive unit with rigid, closed profile
	650	1.0	300	500	500	Precision DUO guide rail with high load capacity
	1500	1.5	900	1450	1450	Ideal as a base axis for linear gantries and cantilever axes
circulating ball bearing guid	le				'	
EGC-BS-KF						
	400	0.5	16	132	132	Rigid, closed profile
	650	1.0	36	228	228	Precision guide rail with high load capacity
	1500	1.5	144	680	680	For the highest requirements in terms of feed force and accuracy
	3000	2.0	529	1820	1820	Space-saving position sensing
ELGA-BS-KF						
	650	0.5	16	132	132	Internal guide and ball screw drive
	1600	1.0	36	228	228	Precision guide rail with high load capacity
	3400	1.5	104	680	680	For the highest requirements in terms of feed force and accuracy
	6400	2.0	167	1150	1150	Guide and ball screw protected by cover strip
						Space-saving position sensing
ELGC-BS-KF						
	40	0.6	1.3	1.1	1.1	Internal guide and ball screw drive
	100	0.6	5.5	4.7	4.7	Guide and ball screw protected by cover strip
	200	0.8	29.1	31.8	31.8	Space-saving position sensing
	350	1.0	59.8	56.2	56.2	
EGSK						
<u> </u>	57	0.33	13	3.7	3.7	Spindle axes with maximum precision, compactness and rigidity
	133	1.10	28.7	9.2	9.2	Recirculating ball bearing guide and ball screw drive without caged ball
	184	0.83	60	20.4	20.4	bearings
	239	1.10	79.5	26	26	Standard designs in stock
	392	1.48	231	77.3	77.3	

Key features

At a glance

- New heavy-duty design for:
 - Maximum loads and torques
 - High feed forces and speeds
 - Long service life
- · Precision DUO guide rail with high load capacity
- Ideal as a basic axis for linear gantries and cantilever axes
- Space-saving position sensing with proximity switch in the profile slot is possible
- Toothed belt material can be selected from:
 - Chloroprene rubber for long service life
 - Coated PU with steel reinforcement cords for long service life and resistance to certain cooling to certain cooling lubricants
- Wide range of options for mounting on drives

EGC-HD-220

• In addition to the technical data, the toothed belt axis impresses with its excellent price/performance ratio

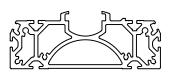
Flexible motor mounting

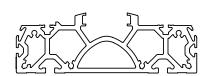
The motor position can be freely selected on 4 sides and can be changed at any time.

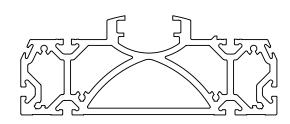


Flat unit with rigid, closed profile

EGC-HD-125 EGC-HD-160







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 data sheet in the catalogue.

Design	Size	Working stroke	Speed	Repetition	Feed force	Guide ch	Guide characteristics				
				accuracy		Forces and torques					
						Fy	Fz	Mx	Му	Mz	
		[mm]	[m/s]	[mm]	[N]	[N]	[N]	[Nm]	[Nm]	[Nm]	
Recirculating ball bearing gui	de										
\Diamond	125	50 3000	3	±0.08	450	3650	3650	140	275	275	
	160	50 5000	5	±0.08	1000	5600	5600	300	500	500	
	220	50 4750	5	±0.1	1800	13000	13000	900	1450	1450	
			•	•	•		,	•			



- Note

Engineering software

Electric Motion Sizing

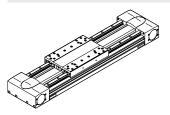
www.festo.com/x/electric-motion-sizing

Toothed belt axes EGC-HD-TB, with heavy-duty guide

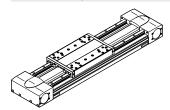
Key features

Slide variants

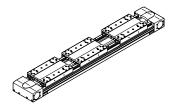
Standard slide



Standard slide, protected

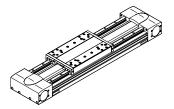


With additional slide



Guide options

With central lubrication

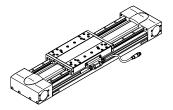


- → Page 19
- The lubrication adapters enable the guide to be permanently lubricated using semi or fully automatic relubrication devices
- The adapters are suitable for oils and greases
- All lubrication connections must be connected

Displacement encoder



→ Page 28



The position of the slide can be sensed directly when using the incremental displacement encoder. This means that all elasticities of the drivetrain can be detected and corrected by the motor controller.

Complete system comprising toothed belt axis, motor, motor controller and motor mounting kit

Toothed belt axis with recirculating ball bearing guide



Motor



Servo motor: EMMT-AS, EMME-AS



Stepper motor: EMMS-ST Gear unit: EMGA





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

Servo drives



Servo drive: CMMT-AS Servo drive for extra-low voltage: CMMT-ST

Motor mounting kit

Σ Page 28



Kit comprising:

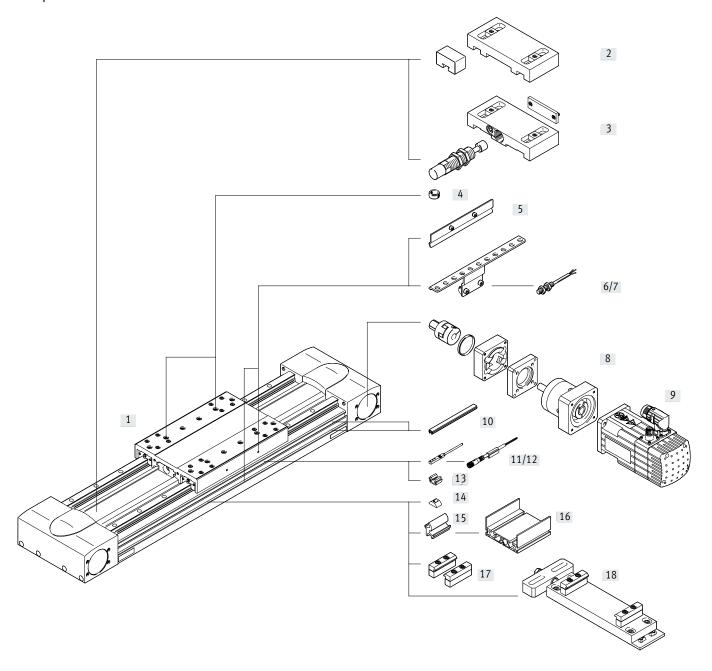
- Motor flange
- Coupling housing
- Coupling
- Screws

Type codes

001	Series
EGC	Electric linear axis
002	Guide
HD	Heavy-duty guide
003	Size
125	125
160	160
220	220
004	Stroke range [mm]
	50 5000
005	Drive system
ТВ	Toothed belt
006	Stroke reserve [mm]
	1 999
007	Slide
GK GP	Standard slide Standard slide, protected
<u> </u>	Standard State, protected
008	Additional slide left
	None
KL	Additional slide, standard, left
009	Additional slide, right
	None
KR	Additional slide standard, right
010	Toothed belt material
	Chloroprene rubber
PU2	Coated PU
011	Lubrication function
011	
С	None Lubrication adapter
	Edition adapter
012	Displacement encoder
	None
M1	With displacement encoder, incremental, resolution 2.5 µm
M2	With displacement encoder, incremental, resolution 10 μm
013	Displacement encoder attachment position
_	None
F B	Front Rear
014	Profile mounting
M	1 - 50 pieces
015	Slot cover, mounting slot
	Without
В	1 - 50 pieces

016	Slot cover, sensor slot
	Without
S	1 - 50 pieces
017	Slot nut, mounting slot
017	
.,	Without
Ү	1 99 pieces
018	Proximity switch, inductive, slot 8, PNP, N/O contact, cable 7.5 m
	None
Х	1 6 pieces
019	Proximity switch, inductive, slot 8, N/C contact, cable 7.5 m
Z	1 6 pieces
020	Emergency buffer with retaining bracket
	Without
A	1 2 pieces
	Charles to the state of the sta
021	Shock absorber with retaining bracket
	None
C	1 2 pieces
022	Proximity switch, inductive, M8, PNP, N/O contact, cable 2.5 m
	Without
0	1 99 pieces
023	Proximity switch, inductive, M8, PNP, N/C contact, cable 2.5 m
	None
P	1 99 pieces
024	Proximity switch, inductive, M8, PNP, N/O contact, M8 plug
	Without
W	1 99 pieces
025	Proximity switch, inductive, M8, PNP, N/C contact, M8 plug
	None
R	1 99 pieces
026	Connecting cable 2.5 m, M8, 3-wire
	None
V	1 99 pieces
027	Cable clip
	None
10CL	10 pieces
20CL	20 pieces
30CL	30 pieces
40CL	40 pieces
50CL	50 pieces
60CL	60 pieces
70CL	70 pieces
80CL	80 pieces
90CL	90 pieces

Peripherals overview



Peripherals overview

	Type/order code	Description	→ Page/Internet
[1]	Toothed belt axis	Electric drive	10
	EGC-HD-TB		
[2]	Emergency buffer with retaining bracket A	For avoiding damage at the end stop in the event of a malfunction	35
[3]	Shock absorber with retaining bracket C	For avoiding damage at the end stop in the event of a malfunction	35
[4]	Centring pin/sleeve	For centring loads and attachments on the slide	35
	ZBS, ZBH	Included in the scope of delivery:	
		- For size 125: 2x ZBS-5, 2x ZBH-9	
		- For size 160, 220: 2x ZBH-9	
[5]	Switch lug	For sensing the slide position	33
-	X, Z, O, P, W, R		
[6]	Sensor bracket	Adapter for mounting the inductive proximity switches (round design) on the axis	34
•	O, P, W, R		
[7]	Proximity switch, M8	Inductive proximity switch, round design	37
	O, P, W, R	The order code O, P, W, R includes 1 switch lug and max. 2 sensor brackets in the scope of delivery	
[8]	Axial kit	For axial motor mounting (comprising: coupling, coupling housing and motor flange)	28
1	EAMM		
[9]	Motor	Motors specially matched to the axis, with gear unit, with or without brake	28
1	EMME, EMMS	g, g,	
[10]	Slot cover	For protection against contamination	35
,	B , S		
[11	Proximity switch, T-slot	Inductive proximity switch, for T-slot	36
	X, Z	The order code X, Z includes 1 switch lug in the scope of delivery	
[12]	Connecting cable	For proximity switch (order code W and R)	37
[]	V	To prominity of the forest occurrence of the first occurrence of the first occurrence oc	,
[13]	Clip	For mounting the proximity switch cable in the slot	35
[-7]	CL	To meaning the promitty officer easier in the state	
[14]	Slot nut	For mounting attachments	35
L = 7]	Y		
[15]	Adapter kit	For mounting the support profile on the axis	36
[-7]	DHAM	1.5. Meaning are support profite on the and	
[16]	Support profile	For mounting and guiding an energy chain	36
[-0]	HMIA		
[17]	Profile mounting	For mounting the axis on the profile	31
[1/]	M	To mounting the axis on the profite) ¹
[18]	Adjusting kit	For mounting the axis on a vertical surface. Once mounted, the axis can be aligned horizontally	32
[10]	EADC-E16	To mounting the axis on a vertical surface. Once mounted, the axis can be aughed monzontally) ²

Toothed belt axes EGC-HD-TB, with heavy-duty guide

Data sheet



- **Ø** -

Size

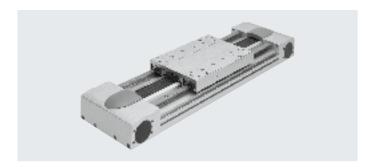
125 ... 220

- |

Stroke length 50 ... 5000 mm



www.festo.com



General technical data				
Size		125	160	220
Design		Electromechanical axis with toothed	belt	
Guide		Recirculating ball bearing guide		
Mounting position		Any		
Working stroke	[mm]	50 3000	50 5000	50 4750
Max. feed force F _x	[N]	450	1000	1800
Max. no-load torque ¹⁾	[Nm]	1.1	2.1	4.1
Max. no-load resistance to shifting ¹⁾	[N]	67.75	105.5	123.8
Max. driving torque	[Nm]	7.2	20	59.58
Max. speed		•		
EGC GK	[m/s]	3	5	
EGC GP	[m/s]	-	3	
Max. acceleration	[m/s ²]	40	50	
Repetition accuracy	[mm]	±0.08		±0.1

¹⁾ At 0.2 m/s and toothed belt made of chloroprene rubber

Operating and environmental condit	ions		
Ambient temperature	[°C]	-10+60	
Degree of protection		IP40	
Duty cycle	[%]	100	

Weight [g]						
Size	125	160	220			
Basic weight with 0 mm stroke ¹⁾	4720	9050	25510			
Additional weight per 10 mm stroke	73	107	210			
Slide						
EGC GK	1218	2571	6317			
EGCGK-C	1334	2813	6785			
EGC GP	-	2643	6417			
Additional slide	Additional slide					
EGC GK	1026	2022	5498			
EGCGK-C	1142	2264	5996			
EGC GP	-	2134	5598			

¹⁾ Incl. slide

Toothed belt					
Size		125	160	220	
Pitch	[mm]	3	5	8	
Width	[mm]	30.3	40.0	50.5	
Effective diameter	[mm]	32.47	39.79	66.21	
Feed constant	[mm/rev]	102	125	208	

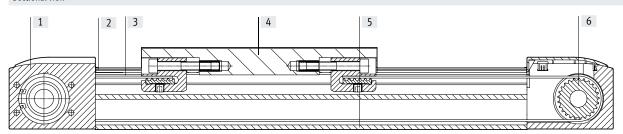
Mass moment of inertia				
Size		125	160	220
J ₀	[kg cm ²]	4.639	14.49	108.99
J _H per metre stroke	[kg cm ² /m]	0.38	1.267	6.269
J _L per kg payload	[kg cm ² /kg]	2.635	3.96	10.96
J _W Additional slide	[kg cm ²]	3.3	11.734	80.66

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

 $J_A = J_O + J_W + J_H x$ working stroke [m] + $J_L x$ m_{payload} [kg]

Materials

Sectional view



Axis		
[1]	Drive cover	Anodised wrought aluminium alloy
[2]	Guide rail	Coated and corrosion-resistant steel
[3]	Toothed belt	
	EGC	Polychloroprene with glass cord and nylon coating
	EGCPU2	Polyurethane with steel cord and nylon cover
[4]	Slide	Anodised wrought aluminium alloy
[5]	Profile	Anodised wrought aluminium alloy
[6]	Toothed belt pulley	High-alloy stainless steel
	Note on materials	RoHS-compliant
		Contains paint-wetting impairment substances

Technical data – Displacement encoder			Dimensions → page 25			
Туре		EGCM1	EGCM2			
Resolution	[µm]	2.5	10			
Max. travel speed	[m/s]	4	4			
with displacement encoder						
Encoder signal		5 V TTL; A/A, B/B; reference si	gnal (N/N) cyclically every 5 mm (zero pulse)			
Signal output		Line driver, alternating, resist	Line driver, alternating, resistant to sustained short circuit			
Electrical connection		8-pin plug, round design, M1	2			
Cable length	[mm]	160				

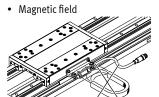
Operating and environmental conditions – Displacement encoder system							
Ambient temperature	[°C]	-10 +70					
Degree of protection		IP64					
CE marking (see declaration of conformity)		To EU EMC Directive ¹⁾					

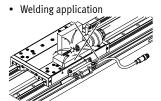
¹⁾ For information about the area of use, see the EC declaration of conformity at: www.festo.com/sp → Certificates.

If the devices are subject to usage restrictions in residential, commercial or light-industrial environments, further measures for the reduction of the emitted interference may be necessary.

Application information

- 1) The displacement encoder contains paint-wetting impairment substances.
- The toothed belt axis with displacement encoder is not designed for the following application examples:

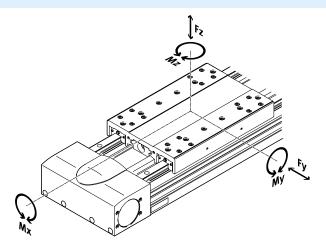




Characteristic load values

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 deceleration phase.



Max. permissible force	es and torques for ser	vice life			
Size		125	160	220	
Service life	[km]	5000			
Fy _{max.}	[N]	3650	5600	13000	
Fz _{max} .	[N]	3650	5600	13000	
Mx _{max} .	[Nm]	140	300	900	
My _{max.}	[Nm]	275	500	1450	
Mz _{max} .	[Nm]	275	500	1450	



For a guide system to have a service life of 5000 km, the load comparison factor must have a value of $fv \le 1$, based on the maximum permissible forces and torques for a service life of 5000 km.

If the axis is subjected to two or more 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:

$$f_v = \frac{\left|F_{y1}\right|}{F_{y2}} + \frac{\left|F_{z1}\right|}{F_{z2}} + \frac{\left|M_{x1}\right|}{M_{x2}} + \frac{\left|M_{y1}\right|}{M_{y2}} + \frac{\left|M_{z1}\right|}{M_{z2}} \leq 1$$

 $F_1/M_1 = dynamic value$ $F_2/M_2 = maximum value$

Calculating the service life

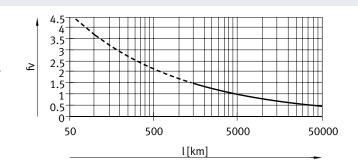
The service life of the guide depends on the load. To be able to make a statement as to the service life of the guide, the graph below plots the load comparison factor fv against the service life.

These values are only theoretical. You must consult your local Festo contact for a load comparison factor fv 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 page 13) 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 Mz and My values. A load comparison factor f_v of 1 now gives a service life of 5000 km.



- 🖣 - Note

Engineering software Electric Motion Sizing www.festo.com/x/electric-motionsizing The engineering software can be used to calculate the guide workload for a service life of 5000 km.

 f_{ν} > 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 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 of 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 maximum permissible forces and torques for a 5000 km service life cannot be compared with the dynamic forces and torques of bearing guides to ISO/JIS.

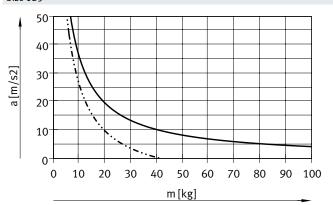
To make it easier to compare the guide capacity of linear axes EGC with bearing guides, the table below lists the theoretically permissible forces and torques for a calculated service life of 100 km. This corresponds to the dynamic forces and torques to ISO.

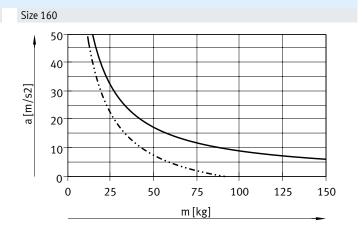
These 100 km values have been calculated mathematically and are only to be used for comparing with dynamic forces and torques to ISO. The drives must not be loaded with these characteristic values as this could damage the axes.

Max. permissible force	es and torques for a th	eoretical service life of 1	00 km (from a guide perspective only)		
Size		125	160	220	
Fy _{max} .	[N]	13447	20631	47892	
Fz _{max} .	[N]	13447	20631	47892	
Mx _{max.}	[Nm]	516	1105	3316	
My _{max} .	[Nm]	1013	1842	5342	
Mz _{max} .	[Nm]	1013	1842	5342	

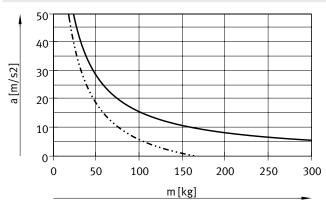
Max. acceleration a as a function of payload m

Size 125





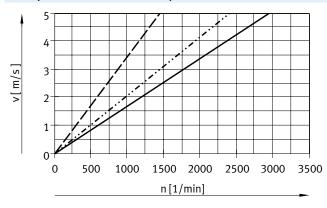
Size 220



Horizontal installed length

Vertical installed length

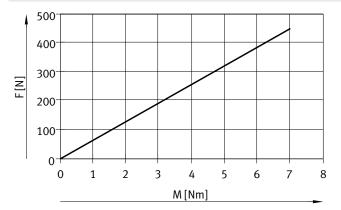
Velocity v as a function of rotational speed n



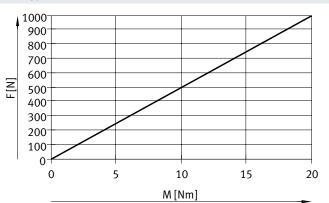
EGC-HD-125
EGC-HD-160
EGC-HD-220

Theoretical feed force F as a function of input torque M

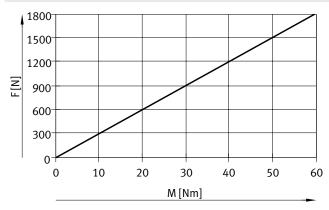




Size 160



Size 220



Stroke reserve

Stroke length

The selected stroke corresponds in principle to the required working stroke. The variants GK do not have a long-term lubrication unit on the guide. These variants therefore have an additional safety distance between the drive cover and slide that is not designated as part of the working stroke.

Stroke reserve

It is possible to define a safety distance (similar to that for GK) between the drive cover and slide for the variants GP using the "stroke reserve" characteristic in the modular product system. With the variants GK, the stroke reserve and safety distance are added for each end position.

- The stroke reserve length can be freely selected
- The sum of the stroke length and 2x stroke reserve must not exceed the maximum working stroke

Example:

Type:

EGC-HD-125-500-TB-20H-... Working stroke = 500 mm

2x stroke reserve = 40 mm

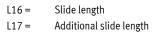
Total stroke= 540 mm (540 mm = 500 mm + 2x 20 mm)

Size	125	160	220
L = safety distance with GK (per [mm] end position)	12.5	15.5	20

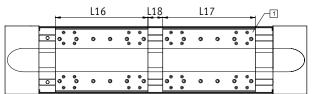
Working stroke reduction

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

- With a toothed belt axis with additional slide [1], 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
- If the variant GK-C is ordered, the additional slide is also supplied with lubrication adapters



L18 = Distance between the two slides



Example:

Type: EGC-HD-220-1000-TB-...-GP-KL/KR L18 = 100 mm

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

Dimensions – Additional slide								
Size	125		160			220		
Variant	GK	GK-C	GK	GK-C	GP	GK	GK-C	GP
Length L17 [mm]	202	220	220	244	250	302	327.6	328

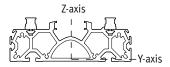
Working stroke reduction per side

With integrated emergency buffer NPE/shock absorber YSRW with shock absorber retainer EAYH-L2

With a toothed belt axis, the working stroke is reduced by the total dimension of the emergency buffer/shock absorber and shock absorber retainer.

Size		125	160	220	
With emergency buffer	[mm]	65	93	98	
With shock absorber	[mm]	66	94	99	

2nd moments of area

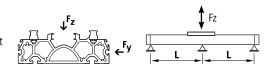


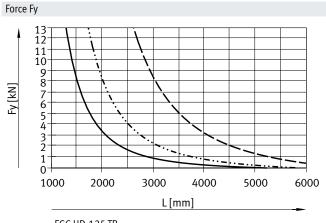
Size		125	160	220
ly	[mm ⁴]	6.89x10 ⁵	12.9x10 ⁵	55.8x10 ⁵
Iz	[mm ⁴]	40.9x10 ⁵	98.9x10 ⁵	351x10 ⁵

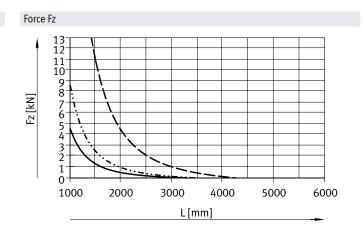
Maximum permissible support span L (without profile mounting) as a function of force F

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

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







EGC-HD-125-TB
------ EGC-HD-160-TB
----- EGC-HD-220-TB

Recommended deflection limits

Adherence to the following deflection limits is recommended so as not to impair the functionality of the axes.

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

1.'	,	Static deflection (stationary load)
`	<u> </u>	0.1% of the axis length

Central lubrication

The lubrication adapters enable the guide of the toothed belt axis EGC-HD-TB to be permanently lubricated in applications in humid or wet ambient conditions using semi or fully automatic relubrication devices.

- For size 125, 160, 220
- The modules are suitable for oils and greases.
- The dimensions of the toothed belt axis EGC-HD-TB are the same with and without central lubrication modules.
- All lubrication connections must be connected
- There are two connection options on each side
- Can be used in combination with:
 - Standard slide GK
 - Additional slide KL, KR
- Cannot be used in combination with:
 - Standard slide, protected GP

Slide dimensions

→ page 24

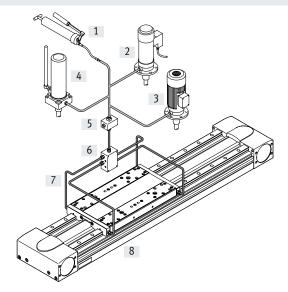
Order code C in the modular product system → page 27

Design of a central lubrication system

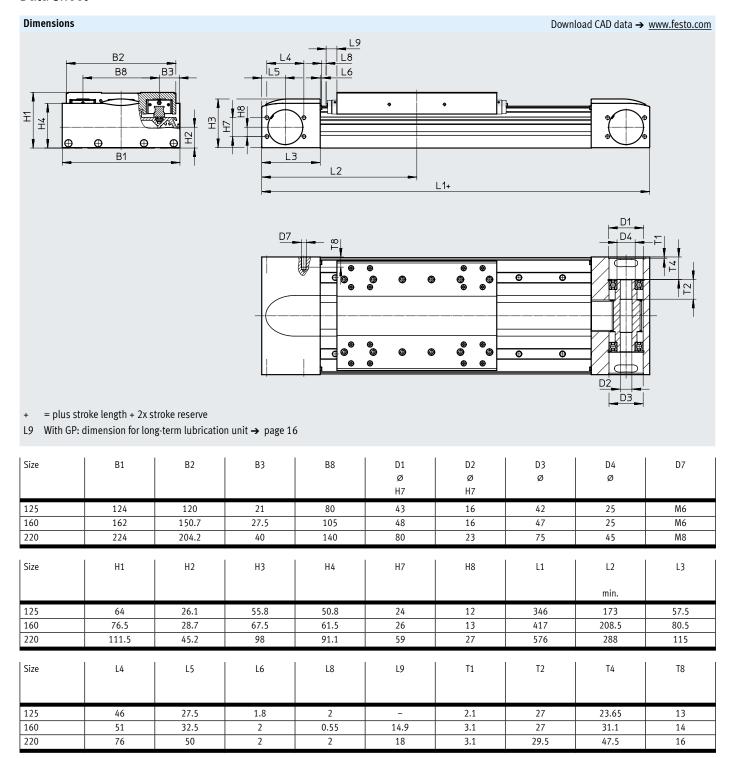
A central lubrication system requires various additional components. The illustration shows different options (using a hand pump, pneumatic container pump or electric container pump) required as a minimum for designing a central lubrication system. Festo does not sell these additional components; however, they can be obtained from the following companies:

- Lincoln
- Bielomatik
- SKF (Vogel)

Festo recommends these companies because they can supply all the necessary components.



- [1] Hand pump
- [2] Pneumatic container pump
- [3] Electric container pump
- [4] Manually operated container pump
- [5] Nipple block
- [6] Distributor block
- [7] Tubing or piping
- [8] Fittings

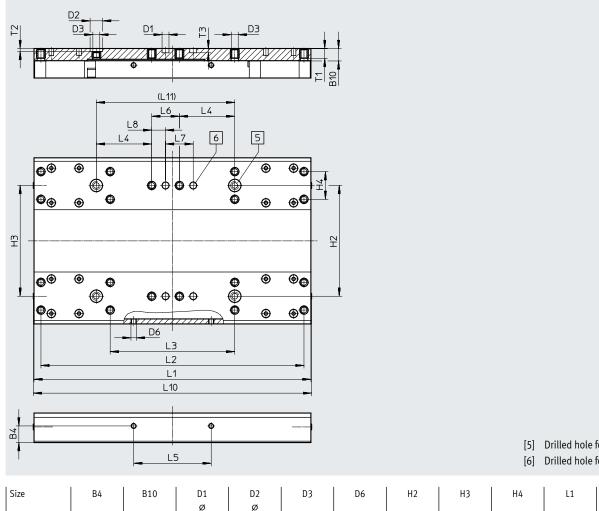


Dimensions Profile 1 Sensor slot for proximity switch B10 [2] Mounting slot for slot nut

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

GK – Standard slide

Size 125



- [5] Drilled hole for centring sleeve ZBH
- [6] Drilled hole for centring pin ZBS

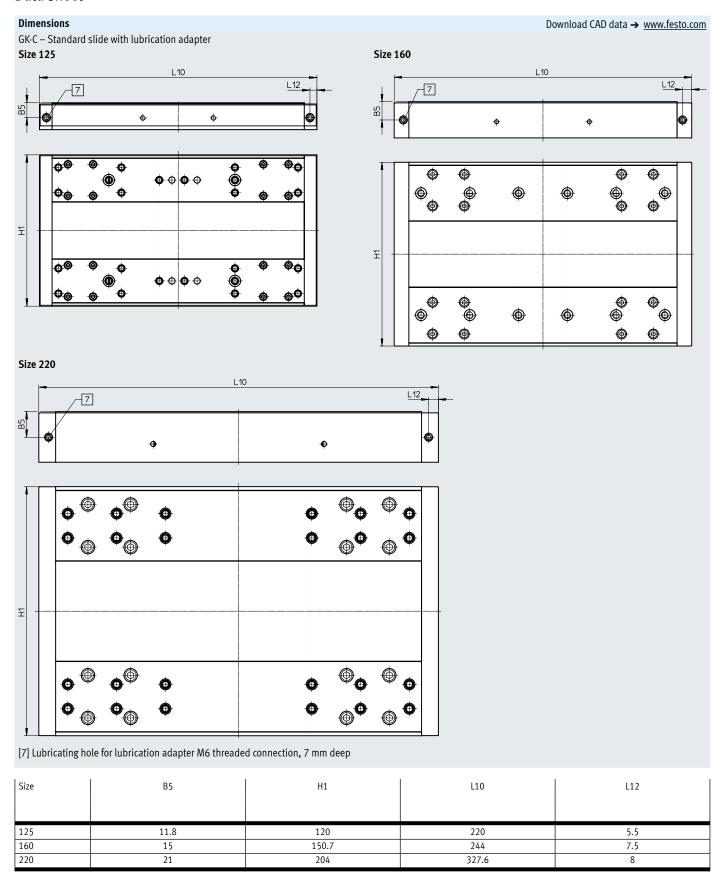
Size	B4	B10	D1	D2	D3	D6	H2	Н3	H4	L1	L2	L3
	±0.1		Ø H7	ø H7			±0.03	±0.05	±0.1	±0.1	±0.2	±0.1
125	12	9	5	9	M5	M4	80	80	20	200	190	90
Size	L4	L5	Le	6	L7	L8	L10	L11	т	1	T2	Т3
	±0.1	±0.2	±0.	.1	±0.03	±0.1		±0.03			+0.1	+0.1
125	40	56	20	0	20	10	202	100	7	.8	2.1	3.1

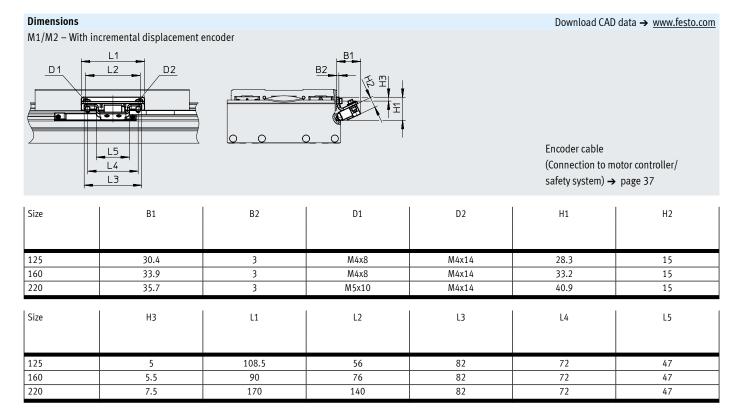
Dimensions Download CAD data → www.festo.com GK – Standard slide / GP – Standard slide, protected Size 160 **(Page 1987)** • **(Particular) (Particular) * (** \bigoplus 면 **(⊕ (4) (** \bigoplus **(** Φ **(((4)** _D6 L10 L5 [5] Drilled hole for centring sleeve ZBH Size В4 B10* D2 D3 D6 Н2 Н3 Ø Н7 ±0.03 ±0.05 ±0.1 М6 160 16.5 10.5 9 Μ4 100 105 Size H10* L1 L4 L5 L10* T1 T2 ±0.03 +0.1 ±0.1 ±0.1 160 31 220 40 76 250 9 2.1

^{*} Protected version

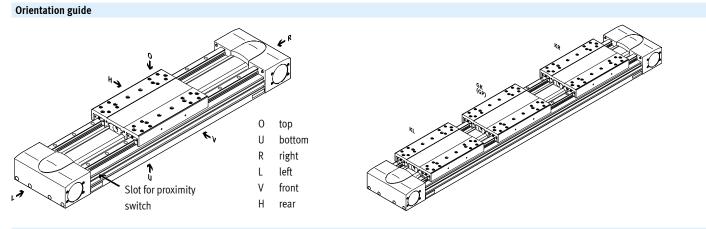
Dimensions Download CAD data → www.festo.com GK – Standard slide / GP – Standard slide, protected Size 220 D2 D3 5 L9 L4 \oplus 毌 D6 L10 φ Ľ5 [5] Drilled hole for centring sleeve ZBH Size В4 B10* D2 D3 D6 Н3 Н4 H10* Ø ±0.1 Н7 ±0.05 ±0.03 220 16 9 M6 M5 140 45.95 26.6 20 L4 L9 Size L1 L5 L10* T1 T2 ±0.03 ±0.03 ±0.1 ±0.1 +0.1 302 40 140 120 328 9.5 2.1 220

^{*} Protected version

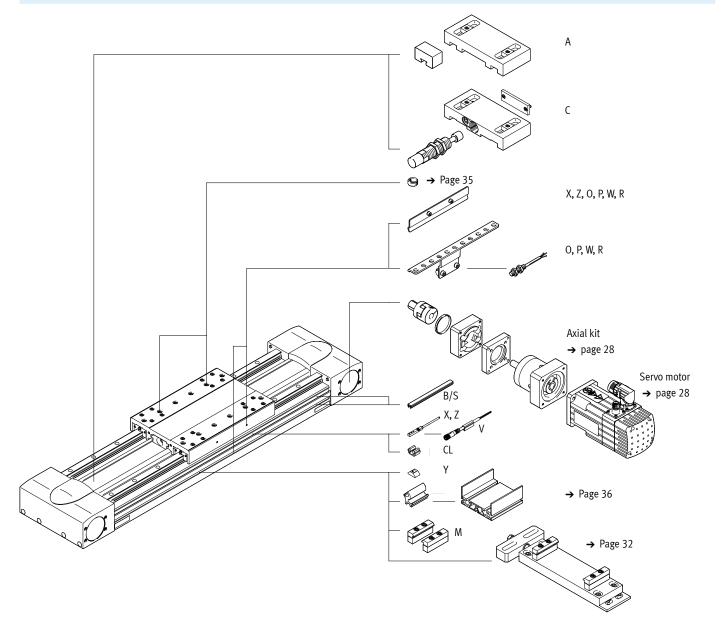




Ordering data - Modular product system



Accessories



Ordering data – Modular product system

Ordering table							
Size		125	160	220	Conditions	Code	Enter code
Module no.		556823	556824	556825			
Design		Linear axis			EGC	EGC	
Guide		Heavy-duty guide			-HD	-HD	
Size		125	160	220			
Stroke length	[mm]	50 3000	50 5000	[1]			
Function		Toothed belt				-TB	-TB
Stroke reserve	[mm]	0 999 (0 = no st	roke reserve)		[1]	Н	
Slide		Standard slide				-GK	
	-	Standard slide, pro	otected		-GP		
Additional slide	Left	Additional slide, st		,	[2]	-KL	
	Right	Additional slide, st	andard, right		[2]	-KR	
Material of toothed belt		Chloroprene rubbe	r				
		Coated PU				-PU2	
Lubrication function	Without						
	Lubrication adapte	r		[5]	-C		
Measurement system	Without						
		With displacement	encoder, incremental, 2		-M1		
		With displacement	encoder, incremental, 1		-M2		
Displacement encoder attachment		Without					
position		Rear			[6]	-В	
		Front			[6]	-F	
Accessories		Accessories enclos	ed separately			ZUB-	ZUB-
Profile mounting		1 50				M	
Slot cover	Mounting slot	1 50 (1 = 2 units	s, 500 mm length)		[4]	В	
	Sensor slot	1 50 (1 = 2 units	s, 500 mm length)			S	
Slot nut for mounting slot		1 99			[4]	Ү	
Proximity switch (SIES), inductive,	N/O contact, 7.5 m cable	1 6				Х	
slot type 8, PNP, including switch lug $$	N/C contact, 7.5 m cable	1 6				Z	
Emergency buffer with retaining brack	cet	1 2			[3]	A	
Shock absorber with retaining bracke	t	1 2			[3]	C	
Proximity sensor (SIEN), inductive,	1 99			0			
M8, PNP, including switch lug with	1 99			Р			
sensor bracket	N/C contact, 2.5 m cable N/O contact, M8 plug	1 99				W	
	N/C contact, M8 plug	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	

[1] -... The sum of nominal stroke and 2x stroke reserve must not exceed the maximum stroke length.
 [2] KL, KR If the protected slide variant (GP) is selected, the additional slide (KL, KR) is also protected.
 If the slide with lubrication adapter (GK-C) is selected, then the additional slide (KL, KR) is also supplied with lubrication adapter

[3] ... A, ... C Cannot be combined with slide GP

[4] B, Y Included in the scope of delivery with size 160 for both slot sizes (→ page 35).

[5] C Cannot be combined with GP, ...C, O, P, W, R, V

[6] B, F Mandatory in combination with (measurement system) M1, M2
Only in combination with (measurement system) M1, M2

Toothed belt axes EGC-HD-TB, 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.

Permissible axis/motor combination	s with axial kit		Data sheets → Internet: eamm-a
Motor/gear unit ¹⁾	Axial kit		
	in the second se	Kits for third-party mot	ors → Internet: eamm-a
Туре	Part no.	Туре	
EGC-HD-125			
With servo motor and gear unit			
EMMT-AS-60, EMME-AS-60	1456612	EAMM-A-M43-60H	
EMGA-60-P-GEAS-60			
With stepper motor and gear unit	•		
EMMS-ST-57	1190076	EAMM-A-M43-60G	
EMGA-60-P-GSST-57			
With integrated drive and gear unit	•		
EMCA-EC-67	1456612	EAMM-A-M43-60H	
EMGC-60			

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

Permissible axis/motor combinations with a	xial kit			Data sheets → Internet: eamm-a
Motor/gear unit ¹⁾	Axial kit			
			Kits for third-party motors → Internet: eamm-a	
Туре	Part no.	Туре		
EGC-HD-160				
With servo motor and gear unit				
EMMT-AS-60, EMME-AS-60	1456614	EAMM-A-M48-60H		
EMGA-60-P-GEAS-60				
EMMT-AS-80, EMME-AS-80	1190421	EAMM-A-M48-80G		
EMGA-80-P-GEAS-80				
EMMT-AS-100, EMME-AS-100	1190421	EAMM-A-M48-80G		
EMGA-80-P-GSAS-100				
With stepper motor and gear unit	•			
EMMS-ST-87	1190421	EAMM-A-M48-80G		
EMGA-80-P-GSST-87				
With integrated drive and gear unit				
EMCA-EC-67	1456614	EAMM-A-M48-60H		
EMGC-60				
EGC-HD-220				
With servo motor and gear unit				
EMMT-AS-100, EMME-AS-100	1190774	EAMM-A-M80-120G		
EMGA-120-P-GSAS-100				

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

Toothed belt axes EGC-HD-TB, with heavy-duty guide

Accessories

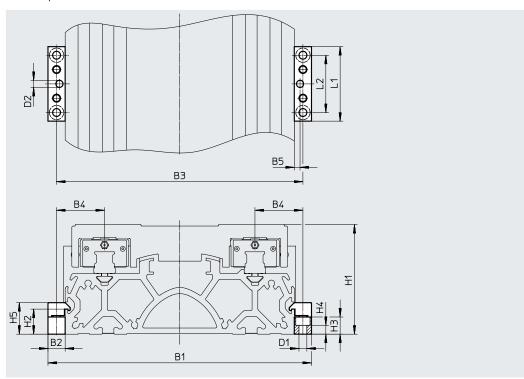
Axial kit	Comprising:		
	Motor flange	Coupling	Centring ring
ass diddle		OF FEETEN	
Part no.	Part no.	Part no.	Part no.
Туре	Туре	Туре	Туре
EGC-HD-125			
1190076	1597579	558001	575962
EAMM-A-M4360G	EAMF-A-43D-60G/H	EAMD-32-32-11-16X20	EAML-43-4-43
1456612	1597579	1377840	575962
EAMM-A-M43-60H	EAMF-A-43D-60G/H	EAMD-32-32-14-16X20	EAML-43-4-43
EGC-HD-160			
1456614	1460111	3420022	558031
EAMM-A-M48-60H	EAMF-A-48C-60G/H	EAMD-42-40-14-16X25-U	EAML-48-4-48
1190421	1190375	1781043	558031
EAMM-A-M48-80G	EAMF-A-48C-80G	EAMD-42-40-20-16X25-U	EAML-48-4-48
EGC-HD-220			
1190774	1190702	1781045	1209006
EAMM-A-M80-120G	EAMF-A-80A-120G	EAMD-56-46-25-23X27-U	EAML-80-6-80

Profile mounting MUE

(order code M)

Material: Anodised aluminium RoHS-compliant



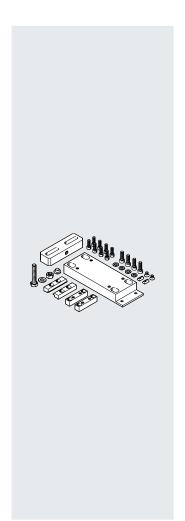


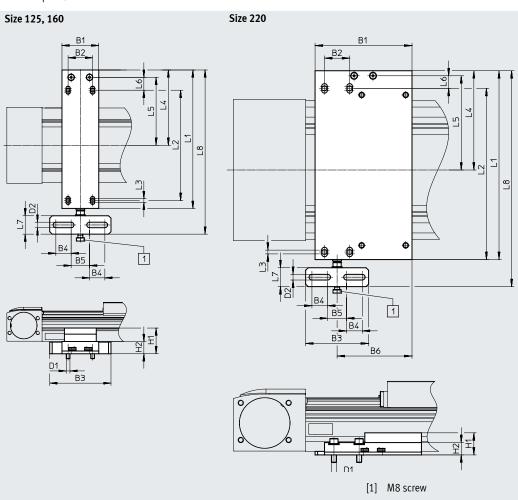
Dimensions and	Dimensions and ordering data												
For size	B1	B2	В3	B4	B5	D1	D2	H1	H2				
						ø	Ø						
							H7						
125	146	12	134	27	4	5.5	5	64	17.5				
160	184	12	172	33.5	4	5.5	5	76.5	17.5				
220	258	19	239	49.5	4	9	5	111.5	16				

For size	Н3	H4	H5	L1	L2	Weight [g]	Part no.	Туре
125	12	6.2	22	52	40	80	558043	MUE-70/80
160	12	6.2	22	52	40	80	558043	MUE-70/80
220	14	5.5	29.5	90	40	290	558044	MUE-120/185

Adjusting kit EADC-E16

Material: Wrought aluminium alloy RoHS-compliant



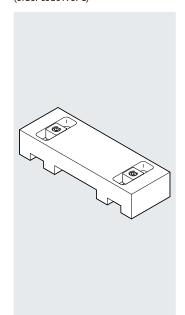


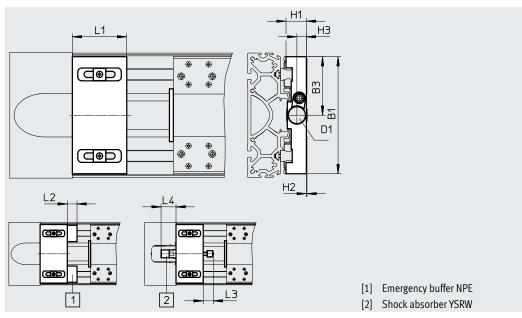
Dimensions and ord	ering data											
For size	B1	B2	В3	B4	B5	B6	D1	D2	H1	H2	L1	L2
125	60	40	100	25	30	-	M6	9	42	20	226	180
125	60	40	100	25 25	30 30	-	M6 M6	9	42	20	226 266	180 220

For size	L3	L4	L5	L6	L7	L8	Weight [g]	Part no.	Туре
125	6	123	111	21	30	308	974	8047580	EADC-E16-125-E14
160	6	143	131	21	30	343	1189		EADC-E16-160-E14
220	6	157.7	149.7	20	30	343	1500	8047582	EADC-E16-220-E14

Shock absorber retainer, retaining bracket EAYH

Emergency buffer NPE → page 35 Shock absorber YSRW → page 35 (order code A or C) Material: Anodised aluminium RoHS-compliant Cannot be used in combination with the variants GP or C.





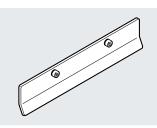
Dimensions and ord	ering data												
For size	B1	В3	D1	H1	H2	Н3	L1	L2	L3	L4	Weight	Part no.	Туре
										min.	[g]		
Shock absorber reta	iner												
125	120	60	M16x1	19.8	0.4	9.7	50	-	20	36	286	1653251	EAYH-L2-125
160	150.7	75.3	M22x1.5	26.2	0.8	12.3	70	-	26	38.5	622	1653250	EAYH-L2-160
220	204	102	M26x1.5	38.7	0.1	15	70	_	34	63.5	1218	1653253	EAYH-L2-220
Retaining bracket fo	r emergend	y buffer											
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

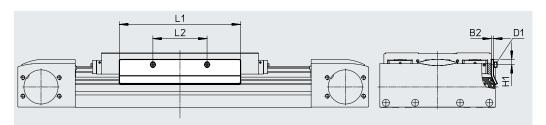
Switch lug SF-EGC-HD-1

For sensing via proximity switch SIES-8M

(order code X or Z)

Material: Galvanised steel RoHS-compliant





Dimensions and ord	Dimensions and ordering data											
For size	B2	D1	H1	L1	L2	Weight	Part no.	Туре				
						[g]						
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				

Switch lug SF-EGC-HD-2

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

Material: Galvanised steel RoHS-compliant

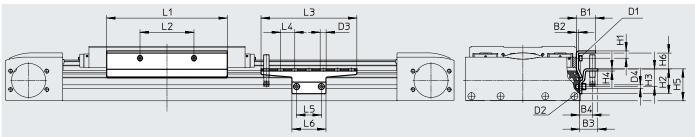


Sensor bracket HWS-EGC

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

Material: Galvanised steel RoHS-compliant





Dimensions and	ordering data									
For size	B1	B2	В3	B4	D1	D2	D3	D4	H1	H2
							Ø	Ø		
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	Н3	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.	Туре
	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.	Туре
	Sensor bracket		
125	110	558057	HWS-EGC-M5
160	110	558057	HWS-EGC-M5
220	217	570365	HWS-EGC-M8-B

Ordering data						
	For size	Description	Order code	Part no.	Туре	PU ¹⁾
Emergency buffer NPE						
	125	Use in combination with retaining	A	1662475	NPE-125	1
	160	bracket EAYH		1672593	NPE-160	
	220			1672598	NPE-220	
Shock absorber YSRW					Data she	ets → Internet: ysrv
	125	Use in combination with shock	С	191196	YSRW-12-20	1
	160	absorber retainer EAYH		191197	YSRW-16-26	
	220			191198	YSRW-20-34	
Slot nut NST		1				
	125, 160 ²⁾	For mounting slot	Υ	150914	NST-5-M5	1
				8047843	NST-5-M5-10	10
				8047878	NST-5-M5-50	50
	160 ³⁾ , 220	For mounting slot	Υ	150915	NST-8-M6	1
				8047868	NST-8-M6-10	10
				8047869	NST-8-M6-50	50
Centring pin/sleeve ZBS/ZBH						
	125	For slide	_	150928	ZBS-5	10
	125, 160, 220			8137184	ZBH-9-B	
Slot cover ABP						
	125, 160 ²⁾	For mounting slot	В	151681	ABP-5	2
	160 ³⁾ , 220	Each 0.5 m		151682	ABP-8	
Slot cover ABP-S						
State Control of the	125, 160, 220	For sensor slot Each 0.5 m	S	563360	ABP-5-S1	2
Clip SMBK						
	125, 160, 220	For sensor slot, for mounting the proximity switch cables	CL	534254	SMBK-8	10

¹⁾ Packaging unit

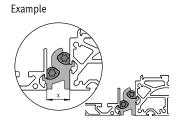
²⁾ For mounting slot at the side3) For mounting slot underneath

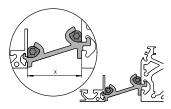
Mounting options between axis and support profile

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.





Ordering data							
	For size	Description	Part no.	Туре	PU ¹⁾		
Adapter kit DHAM							
	160	For mounting the support profile on the axis	562241	DHAM-ME-N1-CL	1		
		Spacing between axis and profile is 20 mm					
	220		562242	DHAM-ME-N2-CL			
	125, 160	For mounting the support profile on the axis	574560	DHAM-ME-N1-50-CL			
	123, 100	Spacing between axis and profile is 50 mm	374300	Similar inte NT 30 CE			
	220		574561	DHAM-ME-N2-50-CL			
Support profile HMIA							
15.88.54	70 120	For guiding an energy chain	539379	НМІА-Е07-	1		

¹⁾ Packaging unit

Ordering data – Proximity switches for T-slot, inductive Data sheet							Data sheets → Internet: sies
	Type of mounting	Electrical connection	Switching output	Cable length [m]	Order code	Part no.	Туре
N/O contact							
	Inserted in the slot from	Cable, 3-wire	PNP	7.5	Х	551386	SIES-8M-PS-24V-K-7.5-OE
SEE AST	above, flush with the	Plug M8x1, 3-pin	1	0.3	-	551387	SIES-8M-PS-24V-K-0.3-M8D
SEC. N. LIE	cylinder profile	Cable, 3-wire	NPN	7.5	-	551396	SIES-8M-NS-24V-K-7.5-OE
		Plug M8x1, 3-pin		0.3	-	551397	SIES-8M-NS-24V-K-0.3-M8D
N/C contact							
	Inserted in the slot from	Cable, 3-wire	PNP	7.5	Z	551391	SIES-8M-PO-24V-K-7.5-OE
SEE BY	above, flush with the	Plug M8x1, 3-pin	1	0.3	-	551392	SIES-8M-PO-24V-K-0.3-M8D
SEC. MALLINE	cylinder profile	Cable, 3-wire	NPN	7.5	-	551401	SIES-8M-NO-24V-K-7.5-OE
		Plug M8x1, 3-pin	1	0.3	-	551402	SIES-8M-NO-24V-K-0.3-M8D

Ordering data	Ordering data – Proximity switch M8 (round design), inductive¹) Data sheets → Interne						
	Electrical connection	LED	Switching output	Cable length [m]	Order code	Part no.	Туре
N/O contact				[1.1]			
	Cable, 3-wire		PNP	2.5	0	150386	SIEN-M8B-PS-K-L
		-	NPN	2.5	-	150384	SIEN-M8B-NS-K-L
	Plug M8x1, 3-pin		PNP	-	W	150387	SIEN-M8B-PS-S-L
		•	NPN	-	-	150385	SIEN-M8B-NS-S-L
N/C contact							
	Cable, 3-wire		PNP	2.5	Р	150390	SIEN-M8B-PO-K-L
		•	NPN	2.5	-	150388	SIEN-M8B-NO-K-L
	Plug M8x1, 3-pin		PNP	-	R	150391	SIEN-M8B-PO-S-L
		•	NPN	-	-	150389	SIEN-M8B-NO-S-L

¹⁾ The proximity switches M8 (round design), inductive, cannot be combined with the central lubrication variant -C.

Ordering data –	Ordering data – Connecting cables						
	Electrical connection, left	Electrical connection, right	Cable length [m]	Part no.	Туре		
	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		

Ordering data –	Data sheets → Internet: nebm				
	Electrical connection, left	Electrical connection, right	Cable length	Part no.	Type
			[m]		
	Displacement encoder EGCM1/-M2	Motor controllers CMMP-AS and	5.0	1599105	NEBM-M12G8-E-5-S1G9-V3
		CMMT-AS	10	1599106	NEBM-M12G8-E-10-S1G9-V3
•			15	1599107	NEBM-M12G8-E-15-S1G9-V3
			X ¹⁾	1599108	NEBM-M12G8-ES1G9-V3

¹⁾ Max. cable length 25 m.

Ordering data – Adapter							
	Description	Part no.	Туре				
	Required in combination with the servo drive CMMT-AS as adapter between encoder cable NEBM-M12G8V3 and interface X3 (position encoder 2)	8106112	NEFM-S1G9-K-0.5-R3G8				