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Electromechanical drives

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Selection aid

Overview of toothed belt and spindle axes

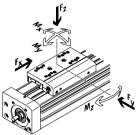
Toothed belt axes

- Speeds of up to 10 m/s
- ullet Acceleration of up to 50 m/s²
- Repetition accuracy of up to +0.08 mm
- Strokes of up to 8,500 mm (longer strokes on request)
- Flexible motor mounting

Spindle axes

- Speeds of up to 2 m/s
- ullet Acceleration of up to 20 m/s²
- Repetition accuracy of up to +0.003 mm
- Strokes of up to 3,000 mm





oothed belt axes	l c	.,	Mx	My	Mz	Dranarties
ype	F _X	V		My		Properties
	[N]	[m/s]	[Nm]	[Nm]	[Nm]	
leavy-duty recirculating bal	l bearing guid	le				
EGC-HD-TB						
	450	3	140	275	275	Flat drive unit with rigid, closed profile
53	1,000	5	300	500	500	Precision, resilient DUO guide rail
	1,800	5	900	1,450	1,450	• Ideal as a basic axis for linear gantries and cantilever axes
ecirculating ball bearing gu	ıida					
EGC-TB-KF	iiuc					
LOC ID KI	50	3	3.5	10	10	Rigid, closed profile
	100	5	16	132	132	Precision, resilient guide rail
	350	5	36	228	228	Small drive pinions reduce necessary driving torque
	800	5	36 144	680	680	 Small drive pinions reduce necessary driving torque Space-saving position sensing
						• Space-saving position sensing
	2,500	5	529	1,820	1,820	
ELGR-TB						
	50	3	2.5	20	20	Cost-optimised rod guide
	100	3	5	40	40	Ready-to-install unit
	350	3	15	124	124	Resilient ball bearings for dynamic operation
oller bearing guide						
ELGA-TB-RF						
	350	10	11	40	40	Sturdy roller bearing guide
	800	10	30	180	180	Guide and toothed belt protected by cover strip
	1 300	10	100	640	640	Speeds of up to 10 m/s
	1 300	10	100	040	040	Lower weight than axes with guide rails
						Lower weight than axes with guide rans
	ı				ı	- 1
lain-bearing guide						
ELGA-TB-G						
	350	5	5	30	10	Guide and toothed belt protected by cover strip
	800	5	10	60	20	For simple handling tasks
	1,300	5	120	120	40	As an actuator for external guides
	1 1 1		-			Insensitive to harsh environmental conditions
ELGR-TB-GF						
ELGR-TB-GF	50	1	1	10	10	Cost-optimised rod guide
ELGR-TB-GF	50	1 1	1 2.5	10 20	10 20	Cost-optimised rod guide Ready-to-install unit
ELGR-TB-GF						
ELGR-TB-GF	100	1	2.5	20	20	Ready-to-install unit

Electromechanical drives



Selection aid

Overview of toothed belt and spindle axes

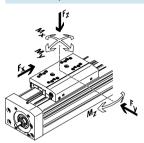
Toothed belt axes

- 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 8,500 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 3,000 mm





pindle axes						
ype	F _X	V	Mx	My	Mz	Properties
	[N]	[m/s]	[Nm]	[Nm]	[Nm]	
eavy-duty recirculating	g ball bearing gui	de				
EGC-HD-BS						
	300	0.5	140	275	275	Flat drive unit with rigid, closed profile
	600	1.0	300	500	500	Precision, resilient DUO guide rail
	1,300	1.5	900	1,450	1,450	 Ideal as a basic axis for linear gantries and cantilever axes
ecirculating ball beari	ng guide					
EGC-BS-KF	300	0.5	16	132	132	a Digid alogad wyofile
	>>>		-		-	Rigid, closed profile Precipion resilient suide reil
	600	1.0	36	228	228	Precision, resilient guide rail
	1,300	1.5	144	680	680	For extremely high requirements for speed, acceleration and torque
	3,000	2.0	529	1,820	1,820	resistance
						Space-saving position sensing
EGSK						
	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 without caged ba
	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	
EGSP						
<u> </u>	112	0.6	36.3	12.5	12.5	Spindle axes with maximum precision, compactness and rigidity
	212	0.6	81.5	31.6	31.6	Recirculating ball bearing guide with caged ball bearings
	466	2.0	90.3	32.1	32.1	• Ball screw sizes 33, 46 with caged ball bearings
	460	2.0	258	94	94	



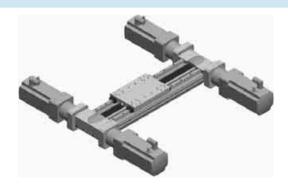
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At a glance

- 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
- In addition to its technical data, the toothed belt 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

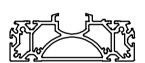
Flexible motor mounting

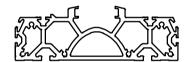
The motor position can be freely selected on four sides and can be changed at any time.

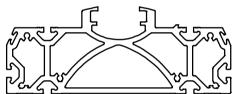


Flat unit with rigid, closed profile

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	Speed	Repetition	Feed force	Guide characteristics Forces and torques				
				accuracy						
						Fy	Fz	Mx	Му	Mz
		[mm]	[m/s]	[mm]	[N]	[N]	[N]	[Nm]	[Nm]	[Nm]
Recirculating ball bearing guide										
$\hat{\sim}$	125	50 3 000	3	+0.08	450	3,650	3,650	140	275	275
	160	50 5,000	5	+0.08	1,000	5,600	5,600	300	500	500
	220	50 4,750	5	+0.1	1,800	13,000	13,000	900	1,450	1,450
		1		1	1					1

Note

PositioningDrives sizing software

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Slide variants

Standard slide



Standard slide, protected



With additional slide



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

Toothed belt axis with recirculating ball bearing guide



Motor mounting kit

Axial kit



Kit comprising:

- Motor flange
- Coupling housing
- Coupling
- Screws

Motor

Servo motor EMMS-AS



Gear unit

Gear unit EMGA



Motor controller

Servo motor controller CMMP-AS, CMMS-AS

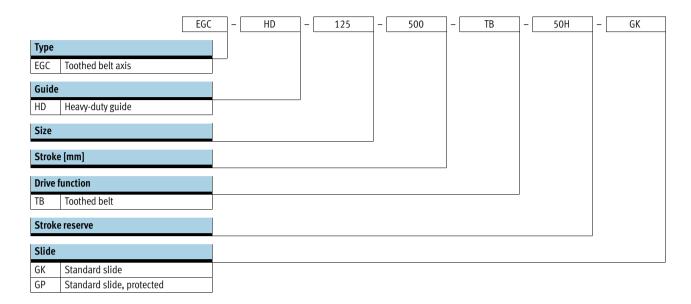


Note

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



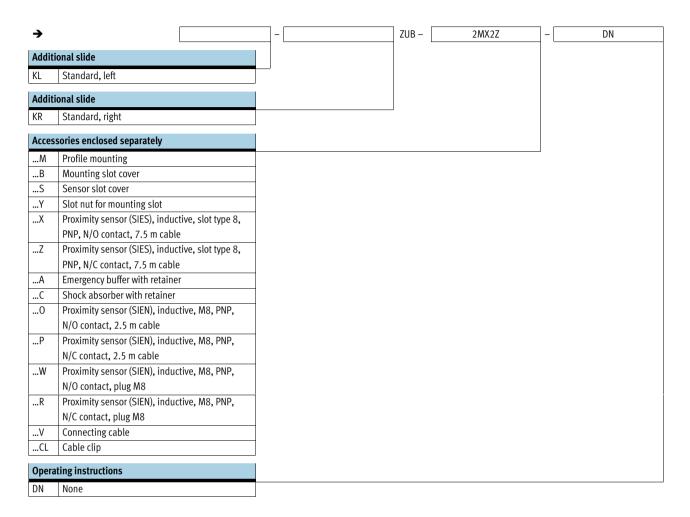
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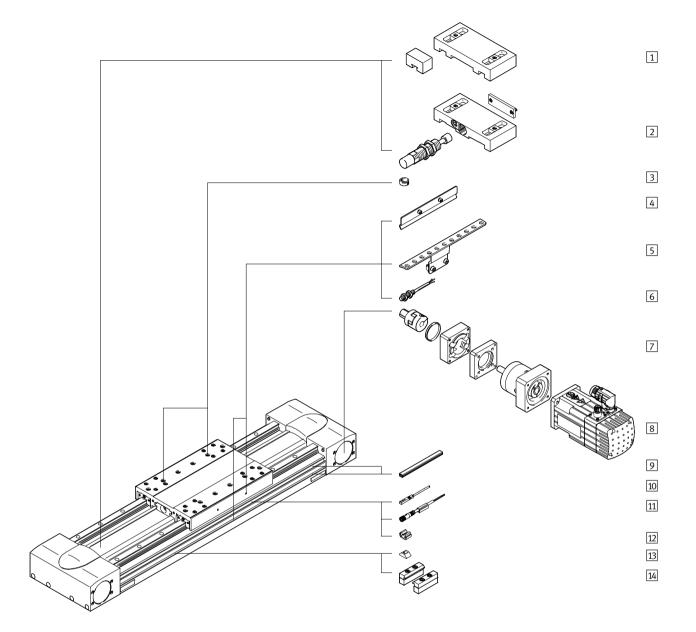
Type codes





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

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



Varia	nts and accessories		
	Туре	Brief description	→ Page/Internet
1	Emergency buffer with retainer	For avoiding damage at the end stop in the event of malfunction	26
	A		
2	Shock absorber with retainer	For avoiding damage at the end stop in the event of malfunction	26
	C		
3	Centring pin/sleeve	For centring loads and attachments on the slide	28
	ZBS, ZBH	• 2 centring pins/sleeves included in the scope of delivery of the axis	
4	Switch lug	For sensing the slide position	26
	X, Z, O, P, W, R		
5	Sensor bracket	Adapter for mounting the inductive proximity sensors (round design) on the axis	26
	O, P, W, R		
6	Proximity sensor, M8	Inductive proximity sensor, round design	29
	O, P, W, R	• The order code O, P, W, R includes 1 switch lug and max. 2 sensor brackets	
7	Axial kit	For axial motor mounting (consisting of: coupling, coupling housing and motor flange)	24
	EAMM		
8	Motor	Motors specially matched to the axis, with gear unit, with or without brake	24
	EMMS		
9	Slot cover	For protecting against the ingress of dirt	28
	B, S		
10	Proximity sensor, T-slot	Inductive proximity sensor, for T-slot	29
	X , Z	The order code X, Z includes 1 switch lug	
11	Connecting cable	For proximity sensor (order code W and R)	29
	V		
12	Clip	For mounting the proximity sensor cable in the slot	28
	CL		
13	Slot nut	For mounting attachments	28
	Υ		
14	Profile mounting	For mounting the axis on the profile	25
	M		



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

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Function



-N-Size 125 ... 220 -T-Stroke length 50 ... 5,000 mm www.festo.com/en/ Spare_parts_service



General technical data	General technical data						
Size		125	160	220			
Design		Electromechanical axis with toothe	ed belt				
Guide		Recirculating ball bearing guide					
Mounting position		Any					
Working stroke	[mm]	50 3,000	50 5,000	50 4 , 750			
Max. feed force F _x	[N]	450	1,000	1,800			
Max. no-load torque ¹⁾	[Nm]	1.1	2.1	4.1			
Max. no-load resistance to shifting ¹⁾	[N]	30.79	105.5	123.8			
Max. driving torque	[Nm]	7.2	20	59.58			
Max. speed							
EGCGK	[m/s]	3	5				
EGCGP	[m/s]	-	3				
Max. acceleration	$[m/s^2]$	40	50				
Repetition accuracy	[mm]	+0.08		+0.1			

1) At 0.2 m/s

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⁾	4,720	9,050	25,510			
Additional weight per 10 mm stroke	73	107	210			
Slide	Slide					
EGCGK	1,218	2,571	6,317			
EGCGP	-	2,643	6,417			
Additional slide						
EGCGK	1,026	2,022	5,498			
EGCGP	-	2,134	5,598			

1) Incl. slide



Toothed belt axes EGC-HD-TB, with heavy-duty guide $_{\mbox{\scriptsize Technical data}}$

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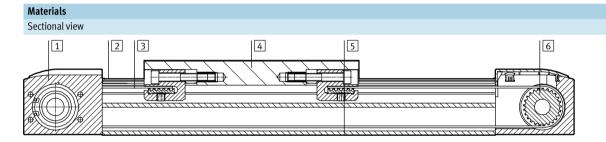
Toothed belt				
Size		125	160	220
Pitch	[mm]	3	5	8
Width	[mm]	30.3	40.0	50.5
Expansion ¹⁾	[%]	0.31	0.23	0.29
Effective diameter	[mm]	32.47	39.79	66.21
Feed constant	[mm/rev.]	102	125	208

¹⁾ At max. feed force

Mass moment of inertia				
Size		125	160	220
Jo	[kg cm ²]	4,639	14.49	108.99
J _S per metre stroke	[kg cm ² /m]	0.38	1.267	6.269
J _L per kg effective load	[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 $J_{\mbox{\scriptsize A}}$ of the entire axis is calculated as follows:

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



Axis	
1 Drive cover	Anodised wrought aluminium alloy
2 Guide rail	Coated and corrosion-resistant steel
3 Toothed belt	Polychloroprene with glass cord and nylon coating
4 Slide	Anodised wrought aluminium alloy
5 Profile	Anodised wrought aluminium alloy
6 Toothed belt disc	High-alloy stainless steel
Note on materials	Conforms to RoHS
	Contains PWIS (paint-wetting impairment substances)



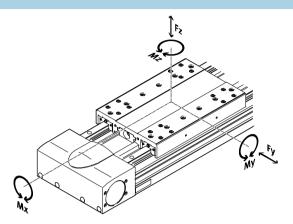
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Technical data

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.



If the axis is subjected to more than two of the indicated forces and torques at the same time, the following equation must be satisfied in addition to the indicated maximum loads: Calculating the load comparison factor:

$$f_{v} \; \square \; \frac{|F_{y,dyn}|}{F_{y,max}} \; \square \; \frac{|F_{z,dyn}|}{F_{z,max}} \; \square \; \frac{|M_{x,dyn}|}{M_{x,max}} \; \square \; \frac{|M_{y,dyn}|}{M_{y,max}} \; \square \; \frac{|M_{z,dyn}|}{M_{z,max}} \; \square \; \; 1$$

Permissible forces and torques						
Size		125	160	220		
Fy _{max} .	[N]	3,650	5,600	13,000		
Fz _{max}	[N]	3,650	5,600	13,000		
Mx _{max} .	[Nm]	140	300	900		
My _{max} .	[Nm]	275	500	1,450		
Mz _{max} .	[Nm]	275	500	1,450		



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Technical data

Calculating the 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_{c} against the service life.

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

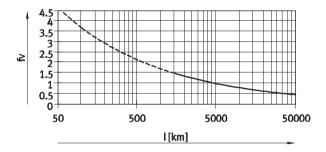
person at Festo for load comparison factors f_{c} greater than 1.5.

Load comparison factor f_c as a function of service life

Example:

A user wants to move a load of X kg. Calculation with the formula \rightarrow 12 produces a value of 1.5 for the load comparison factor f_c . According to the graph, the guide has a service life

of approx. 1,500 km. Reducing the acceleration reduces the Mz and My values. A load comparison factor f_c of 1 now gives a service life of 5,000 km.



Note

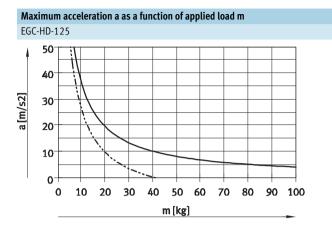
PositioningDrives sizing software www.festo.com The sizing software can be used to calculate a guide workload for a service life of 5,000 km.

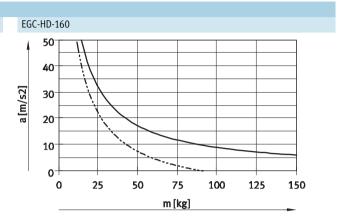
 $f_{\text{c}} > 1.5$ are only theoretical comparison values for the recirculating ball bearing guide.



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Technical data

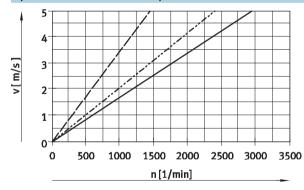




EGC-HD-220 50 40 30 20 10 0 50 100 150 200 250 300 m [kg]

Horizontal mounting positionVertical mounting position

Speed v as a function of rotational speed n

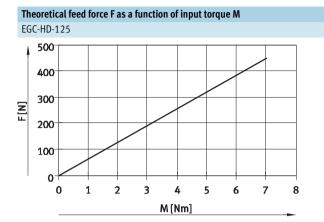


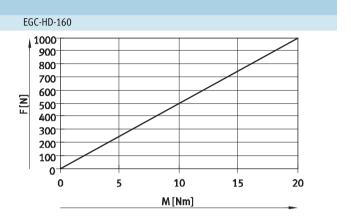
EGC-HD-125
EGC-HD-160
EGC-HD-220



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Technical data





EGC-HD-220 1800 1500 1200 900 600 300 0 10 20 30 40 50 60 M[Nm]

600		
0 10 20	30 40 50 60 M[Nm])
Stroke reserve		
Stroke length	Stroke reserve	
The colected stroke corresponds in	A cafety distance (similar to G	(r) ■ The

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 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.

- 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
L9 = safety distance with GK [mm]	12.5	15.5	20
(per end position)			



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Technical data

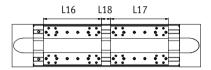
Working stroke reduction

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

 With a toothed belt 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-TB-...-GP-KR

L18 = 100 mm

Working stroke = 1,000 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	

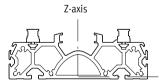
Working stroke reduction per side

With integrated emergency buffer NPE/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

Second moment of area



Size	12	25	160	220
ly [m	m ⁴] 6.	.89x10 ⁵	12.9x10 ⁵	55.8x10 ⁵
Iz [m	m ⁴] 40	0.9x10 ⁵	98.9x10 ⁵	351x10 ⁵



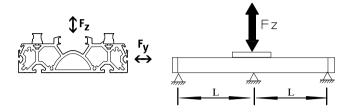
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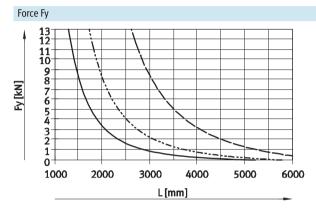
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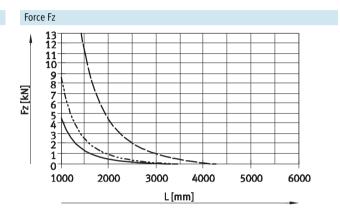
Maximum permissible support spacing L (without profile mounting) as a function of force F

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 I 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

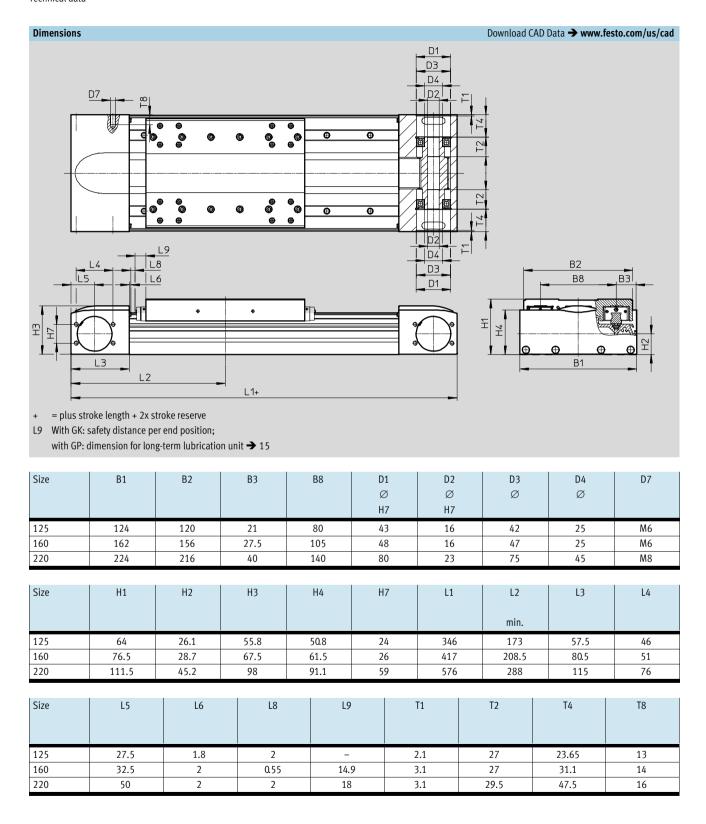
Adherence to the following deflection limits is recommended so as not to impair the functional performance of

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

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



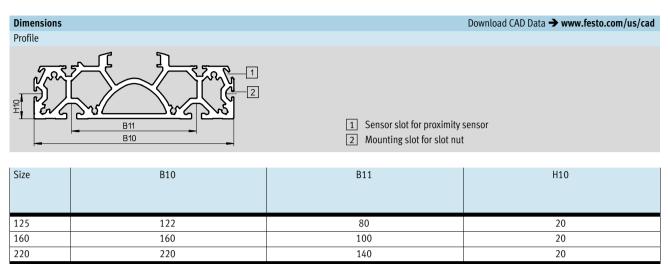
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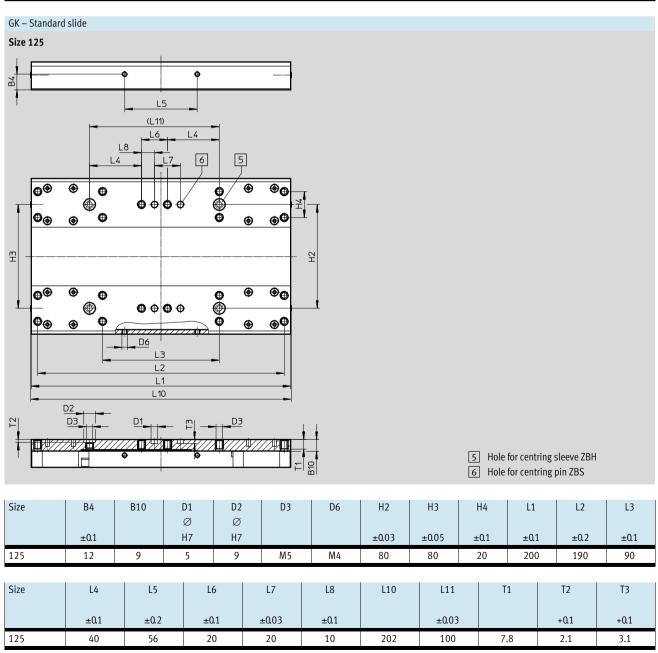






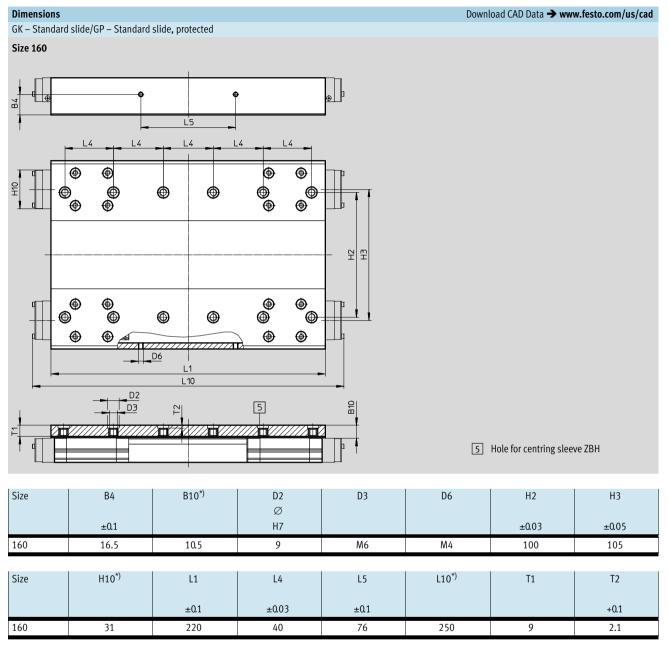
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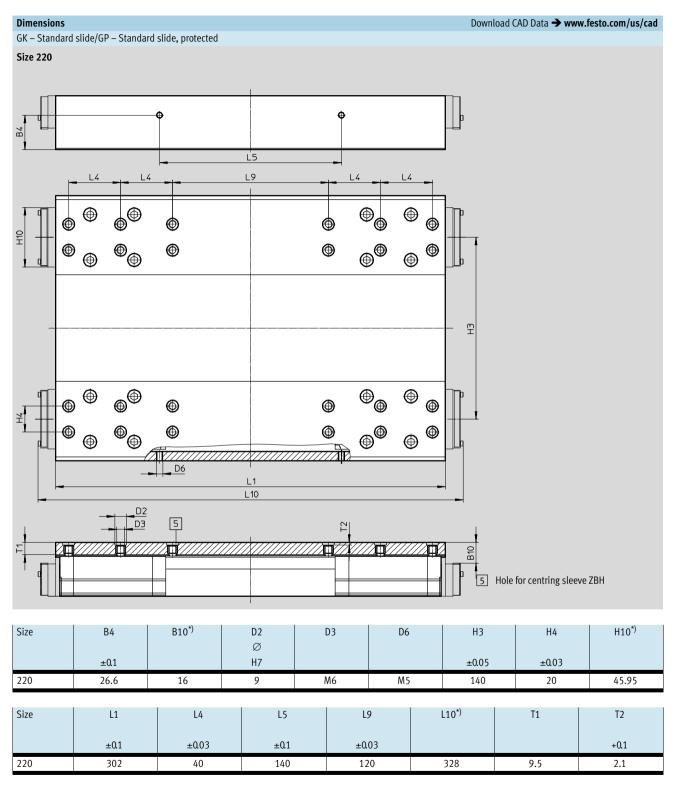
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^{*)} Protected version



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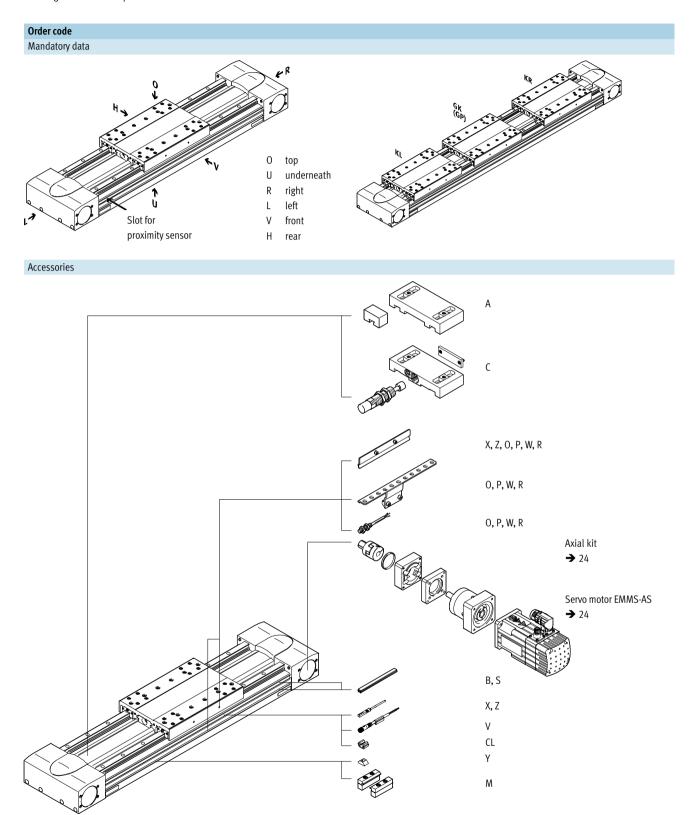


^{*)} Protected version



Toothed belt axes EGC-HD-TB, with heavy-duty guide Ordering data – Modular products

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Toothed belt axes EGC-HD-TB, with heavy-duty guide Ordering data – Modular products



ze		125	160	220	Condition s	Code	Enter code
Module No.		556823	556824	556825			
Design		Linear axis				EGC	EGC
Guide		Heavy-duty guide				-HD	-HD
Size		125	160	220			
Stroke	[mm]	50 3,000	50 5,000	50 4,750	1		
Function		Toothed belt	·			-TB	-TB
Stroke reserve	[mm]	0 999 (0 = no s	troke reserve)		1	H	
Slide		Standard slide				-GK	
		_	Standard slide,	orotected		-GP	
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)			4	В	
	Sensor slot	1 50 1 99				S	
Slot nut for mounting slot					4	Ү	
Proximity sensor (SIES),	N/O contact, 7.5 m cable	1 6				X	
inductive, slot type 8, PNP, incl. switch lug	N/C contact, 7.5 m cable	1 6				Z	
Emergency buffer with retain	er	1 2			3	A	
Shock absorber with retainer	ſ	12			3	C	
Proximity sensor (SIEN),	N/O contact, 2.5 m cable	1 99				0	
inductive, M8, PNP, incl.	N/C contact, 2.5 m cable	1 99				Р	
switch lug with sensor	N/O contact, plug M8	1 99				W	
bracket 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		•		n to be included (already		-DN	
		/ ` '	· ·	F format are available free			
		of charge on the I	nternet at http://www	.festo.com)			

1	The sum of the stroke length in mm and	3 A, C	Cannot be combined with slide GP.
	2x the stroke reserve in mm must not exceed the maximum stroke length in mm.	4 B, Y	Scope of delivery with size 160 for both slot sizes (>> 30)
2 KL, KR	If the protected slide variant (GP) is selected,		

then the additional slide (KL, KR) is also protected.

Order code EGC - TB



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



Permissible axis/motor combinations with axial kit − With gear unit Technical data → Intern					
Motor	Gear unit	Axial kit			
Туре	Туре	Part No.	Туре		
EGC-HD-125					
With servo motor					
EMMS-AS-55	EMGA-60-P-GSAS-55	1190076	EAMM-A-M43-60G		
EMMS-AS-70	EMGA-60-P-GSAS-70	1190076	EAMM-A-M43-60G		
With stepper motor					
EMMS-ST-57	EMGA-60-P-GSST-57	1190076	EAMM-A-M43-60G		
EGC-HD-160					
With servo motor EMMS-AS-70	EMGA-80-P-GSAS-70	1190421	EAMM-A-M48-80G		
EMME-AS-70	EMGA-80-P-GSAS-70 EMGA-80-P-GEAS-80	1190421	EAMM-A-M48-80G EAMM-A-M48-80G		
EMME-AS-100	EMGA-80-P-GEAS-80	1190421	EAMM-A-M48-80G		
EMMS-AS-100	EMGA-80-P-GSAS-100	1190421	EAMM-A-M48-80G		
With stepper motor	EIVIGA-60-F-G3A3-100	1190421	CAIVIIVI-A-IVI40-OUU		
EMMS-ST-87	EMGA-80-P-GSST-87	1190421	EAMM-A-M48-80G		
EIVIIVI3-31-0/	LIVIUM-0U-F-U331-0/	1190421	EANINITA-INI40-0UU		
EGC-HD-220					
With servo motor					
EMMS-AS-100	EMGA-120-P-GSAS-100	1190774	EAMM-A-M80-120G		
EMMS-AS-140	EMGA-120-P-GSAS-140	1190774	EAMM-A-M80-120G		

M	_	ı	_
N	o	п	н

For the optimum selection of PositioningDrives axis/motor combinations → sizing software www.festo.com

Component parts of the axial kit								
Axial kit	Comprising:							
	Motor flange	Coupling	Centring ring					
Described descri	See Hill Hill	OF THE PERSON NAMED IN COLUMN TO PERSON NAME						
Part No.	Part No.	Part No.	Part No.					
Туре	Туре	Туре	Type					
EGC-HD-125	EGC-HD-125							
1190076	1597579	558001	575962					
EAMM-A-M43-60G	EAMF-A-43D-60G	EAMD-32-32-11-16X20	EAML-43-4-43					
EGC-HD-160								
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					



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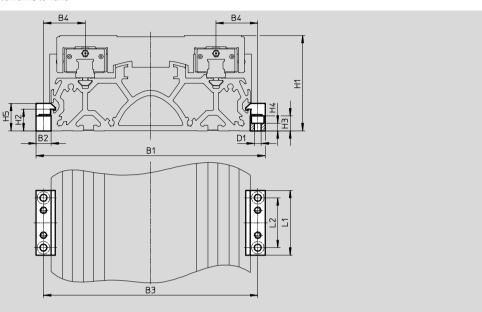
Profile mounting MUE

(order code M)

Material:

Anodised aluminium Conforms to RoHS





Dimensions and ordering data										
For size	B1	B2	В3	B4	D1	H1	H2	Н3		
					Ø					
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.	Туре
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



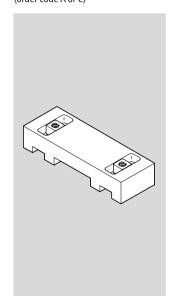
FESTO

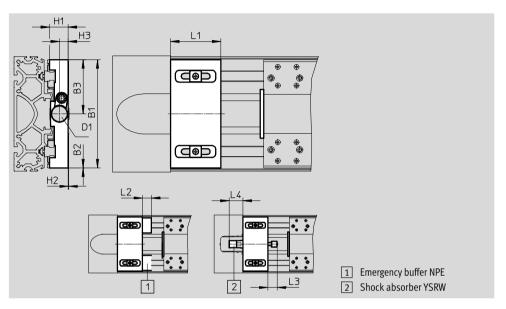
Shock absorber retainer, retainer EAYH

Emergency buffer NPE → 28 Shock absorber YSRW → 28 (order code A or C)

Material: Anodised aluminium Conforms to RoHS

Cannot be used in combination with the variants GP.





Dimensions and o	Dimensions and ordering data												
For size	B1	В3	D1	H1	H2	Н3	L1	L2	L3	L4 min.	Weight [g]	Part No.	Type
Shock absorber retainer													
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	1,218	1653253	EAYH-L2-220
Retainer for emerg	ency buffe	er											
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	-	-	1,195	1669260	EAYH-L2-220-N

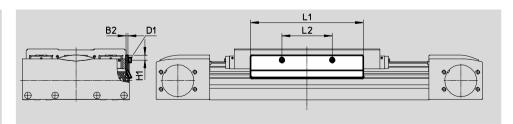
Switch lug SF-EGC-HD-1

for sensing via proximity sensor SIES-8M

(order code X or Z)

Material: Galvanised steel Conforms to RoHS





Dimensions and o	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			



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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)

Material: Galvanised steel Conforms to RoHS

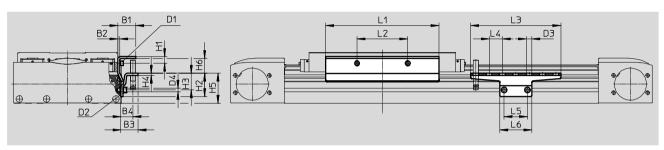


Sensor bracket HWS-EGC

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

Material: Galvanised steel Conforms to RoHS





Dimensions and ordering data										
For size	B1	B2	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	Н6	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 bracke	Sensor bracket							
125	110	558057	HWS-EGC-M5						
160	110	558057	HWS-EGC-M5						
220	217	570365	HWS-EGC-M8-B						



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



Ordering data						
	For size	Remark	Order code	Part No.	Туре	PU ¹⁾
Emergency buffer NPE						
\wedge	125	Use in combination with	A	1662475	NPE-125	1
	160	retainer EAYH		1672593	NPE-160	
	220			1672598	NPE-220	
Shock absorber YSRW						→ Internet: ysrw
- Jacob	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	
Cl-4 ANCT			1			
Slot nut NST	125, 160 ³⁾	For an example a plat	Υ	450047	NCT F MF	14
	160 ⁴⁾ , 220	For mounting slot	Y	150914	NST-5-M5 NST-8-M6	1
	1604), 220			150915	N21-8-M6	
Centring pin/sleeve ZBS/ZBH ²	2)					
	125	For slide	-	150928	ZBS-5	10
9	125 220			150927	ZBH-9	
Slot cover ABP						
\sim	125, 160 ³⁾	For mounting slot	В	151681	ABP-5	2
	160 ⁴⁾ , 220	every 0.5 m		151682	ABP-8	
Slot cover ABP-S						
	125 220	For sensor slot	S	563360	ABP-5-S1	2
		every 0.5 m				
Clip SMBK						
<i>A</i> .	125 220	For sensor slot, for attaching	CL	534254	SMBK-8	10
		the proximity sensor cables				
		, ,				

Packaging unit
 Coentring pins/sleeves included in the scope of delivery of the axis
 For mounting slot at side
 For mounting slot underneath



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

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Ordering data	– Proximity sensors fo	r T-slot, inductive					Technical data → Internet: sies
	Type of mounting	Electrical connection	Switching	Cable length	Order code	Part No.	Туре
			output	[m]			
N/O contact							
1	Insertable in the slot	Cable, 3-wire	PNP	7.5	Х	551386	SIES-8M-PS-24V-K-7,5-OE
SET WIT	from above, flush	Plug M8x1, 3-pin		0.3	-	551387	SIES-8M-PS-24V-K-0,3-M8D
	with the cylinder	Cable, 3-wire	NPN	7.5	-	551396	SIES-8M-NS-24V-K-7,5-OE
	profile	Plug M8x1, 3-pin		0.3	-	551397	SIES-8M-NS-24V-K-0,3-M8D
N/C contact							
	Insertable in the slot	Cable, 3-wire	PNP	7.5	Z	551391	SIES-8M-PO-24V-K-7,5-0E
ST WILL	from above, flush	Plug M8x1, 3-pin		0.3	-	551392	SIES-8M-PO-24V-K-0,3-M8D
	with the cylinder	Cable, 3-wire	NPN	7.5	-	551401	SIES-8M-NO-24V-K-7,5-0E
	profile	Plug M8x1, 3-pin		0.3	-	551402	SIES-8M-NO-24V-K-0,3-M8D

Ordering data	a – Proximity sensors M8 (round desi		Technical data → Internet: sien					
	Electrical connection	LED	Switching	Cable length	Order code	Part No.	Туре	
			output	[m]				
N/O contact								
	Cable, 3-wire		PNP	2.5	0	150386	SIEN-M8B-PS-K-L	
	Plug M8x1, 3-pin		PNP	-	W	150387	SIEN-M8B-PS-S-L	
			•					
N/C contact								
	Cable, 3-wire		PNP	2.5	Р	150390	SIEN-M8B-PO-K-L	
	Plug M8x1, 3-pin	•	PNP	-	R	150391	SIEN-M8B-PO-S-L	

Ordering data	- Connecting cables	Technical data → Internet: nebu			
	Electrical connection, left	Electrical connection, right	Cable length		Туре
			[m]		
	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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A Complete Suite and Company Overview

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