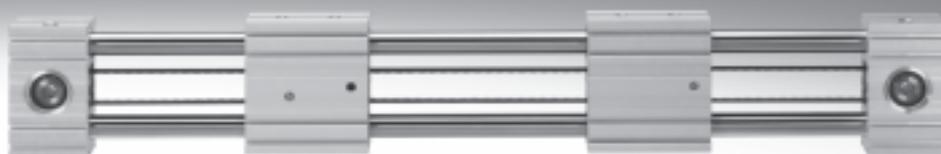


## Toothed belt axes ELGG

**FESTO**



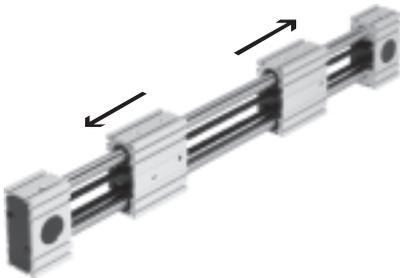
# Toothed belt axes ELGG

Key features

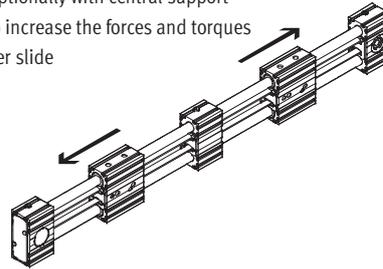
### At a glance

- Toothed belt axis with two opposing slides
- Optimum price/performance ratio
- Ready-to-install unit for quick and easy design
- High reliability thanks to a tested service life of 2,500 km per slide
- Motor can be mounted on four sides using identical mounting accessories
- Complete kit for a simple and space-saving solution for end-position sensing
- Plain-bearing guide
  - For small loads
  - Restricted operating behaviour with torque load
  - Guide backlash = 0.05 mm (on delivery)
- Recirculating ball bearing guide
  - For medium loads
  - Very good operating behaviour with torque load
  - Backlash-free guide (preloaded guide elements)

### Opposing movement, controlled via a motor



Optionally with central support to increase the forces and torques per slide



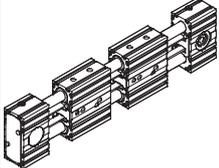
### Application examples

- Suitable for sorting, separating and spreading
- For opening doors
- For gripping tasks with small loads
- Positioning and handling with low process forces
- Centring and aligning

### 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.

Version	Size	Working stroke per slide [mm]	Speed [m/s]	Repetition accuracy [mm]	Feed force <sup>1)</sup> [N]	Guide characteristics				
						Forces and torques				
						Fy [N]	Fz [N]	Mx [Nm]	My [Nm]	Mz [Nm]
	35	50 ... 700	3	±0.1	50	50	50	2.5	20	20
	45	50 ... 900	3	±0.1	100	100	100	5	40	40
	55	50 ... 1,200	3	±0.1	350	300	300	15	124	124

1) Combined feed force of both slides

 **Note**

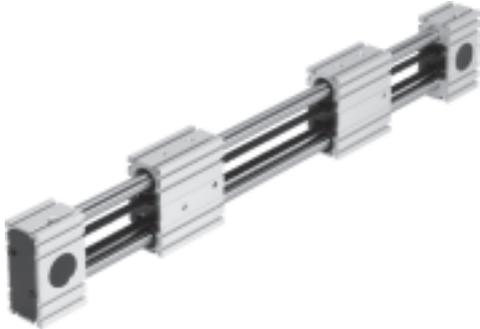
PositioningDrives  
sizing software  
[www.festo.com](http://www.festo.com)

# Toothed belt axes ELGG

Key features

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

Toothed belt axis with recirculating ball bearing guide or plain-bearing guide



## Motor

→ 18



1



2

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

 Note

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

## Motor controller

Technical data → Internet: motor controller



1



2

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

## Motor mounting kit

→ 18

Axial kit

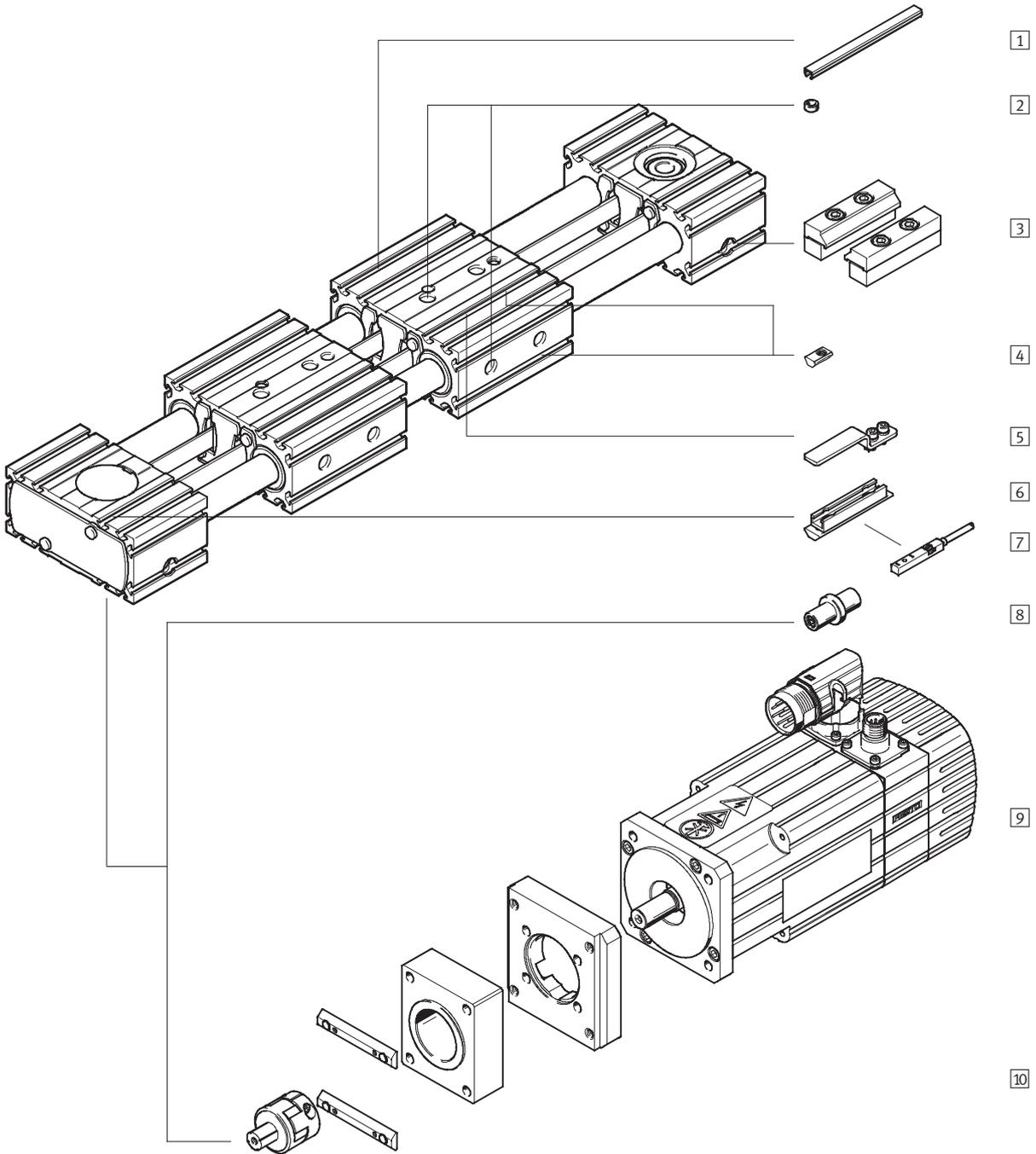


Kit comprising:

- Motor flange
- Coupling housing
- Coupling
- Screws
- Slot nuts

# Toothed belt axes ELGG

Peripherals overview



## Toothed belt axes ELGG

Peripherals overview

Variants and accessories		
Type	Brief description	→ Page/Internet
1 Slot cover NC	<ul style="list-style-type: none"> <li>For protecting against ingress of dirt</li> </ul>	21
2 Centring sleeve ZBH	<ul style="list-style-type: none"> <li>For centring loads and attachments on the slide</li> <li>4 centring sleeves included in the scope of delivery of the axis</li> </ul>	21
3 Profile mounting MA	For mounting the axis on the bearing cap	20
4 Slot nut NM	For mounting attachments	21
5 Switching lug SA, SB	For sensing the slide position	20
6 Sensor bracket SA, SB	Adapter for mounting the inductive proximity sensors on the axis	20
7 Proximity sensor, T-slot SA, SB	<ul style="list-style-type: none"> <li>Inductive proximity sensor, for T-slot</li> <li>1 switching lug and 1 sensor bracket are included in the scope of delivery with the order code SA, SB</li> </ul>	21
8 Drive shaft EA	<ul style="list-style-type: none"> <li>Can, if required, be used as an alternative interface</li> <li>No drive shaft is required for the axis/motor combination → 18</li> </ul>	21
9 Motor EMMS	Motors specially matched to the axis, with or without brake	18
10 Axial kit EAMM	For axial motor mounting (comprising: coupling, coupling housing and motor flange)	18
– Connecting cable NEBU	For proximity sensor (order code SA and SB)	21

# Toothed belt axes ELGG

Type codes

		ELGG	-	TB	-		-	45	-	500	-	30H	-	L	-		-	M	
<b>Type</b>																			
ELGG	Linear axis																		
<b>Drive function</b>																			
TB	Toothed belt																		
<b>Guide</b>																			
-	Recirculating ball bearing guide																		
GF	Plain-bearing guide																		
<b>Size</b>																			
<b>Stroke per slide [mm]</b>																			
<b>Stroke reserve per slide</b>																			
<b>Slide</b>																			
-	Standard slide																		
L	Long slide																		
<b>Additional slide</b>																			
-	No additional slide																		
ZB	1 slide on right, 1 slide on left																		
<b>Additional function</b>																			
-	None																		
M	Central support																		

## Toothed belt axes ELGG

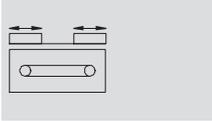
Type codes

→	+	2SA		4NM	EA	2MA
<b>Proximity sensor</b>						
...SA	Proximity sensor (SIES), inductive, T-slot, PNP, N/O contact, cable 7.5 m					
...SB	Proximity sensor (SIES), inductive, T-slot, PNP, N/C contact, cable 7.5 m					
<b>Cover</b>						
...NC	For mounting slot					
<b>Slot nut</b>						
...NM	For mounting slot					
<b>Drive shaft</b>						
...EA	Drive shaft					
<b>Profile mounting</b>						
...MA	Profile mounting					

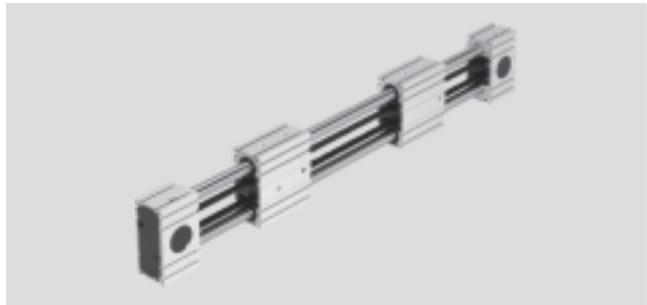
# Toothed belt axes ELGG

Technical data

Function



-  - Size  
35 ... 55
-  - Stroke length  
50 ... 1,200 mm
-  - [www.festo.com](http://www.festo.com)



General technical data				
Size		35	45	55
Design		Electromechanical linear axis with toothed belt		
Guide		Recirculating ball bearing guide		
		Plain-bearing guide		
Mounting position		Any		
Working stroke per slide	[mm]	50 ... 700	50 ... 900	50 ... 1,200
Max. feed force $F_x^{1)}$	[N]	50	100	350
Max. no-load torque <sup>2)</sup>	[Nm]	0.18	0.3	0.5
Max. driving torque	[Nm]	0.46	1.24	5
Max. no-load resistance to shifting	[N]	10.8	16.1	27.9
Max. speed				
	Recirculating ball bearing guide	[m/s]	3	
	Plain-bearing guide	[m/s]	1	
Max. acceleration <sup>3)</sup>		[m/s <sup>2</sup> ]	50	
Repetition accuracy		[mm]	±0.1	

- 1) Combined feed force of both slides
- 2) Measured at a speed of 0.2 m/s
- 3) The max. acceleration is dependent on the moving load, the driving torque and the max. feed force

Operating and environmental conditions		
Ambient temperature		
Recirculating ball bearing guide	[°C]	-10 ... +50
Plain-bearing guide	[°C]	0 ... +40
Protection class		IP20
Duty cycle	[%]	100

Weight [kg]				
Size		35	45	55
Recirculating ball bearing guide				
Basic weight with 0 mm stroke <sup>1)</sup>				
	Standard slide	1.9	4.2	7.2
	Long slide	2.6	6.0	10.3
	Additional weight per 1,000 mm stroke	4.9	10.0	15.6
	Moving load	0.8	1.7	2.9
Slide				
	Standard slide	0.8	1.7	2.9
	Long slide	1.3	3.0	5.2
	Additional slide	0.6	1.5	2.6
	Central support	0.2	0.5	0.7

1) Incl. 2 slides, without central support

# Toothed belt axes ELGG

Technical data

Weight [kg]			
Size	35	45	55
Plain-bearing guide			
Basic weight with 0 mm stroke <sup>1)</sup>			
Standard slide	1.9	4.3	7.2
Long slide	2.7	6.2	10.8
Additional weight per 1,000 mm stroke	4.9	10.0	15.6
Moving load	0.8	1.7	3.0
Slide			
Standard slide	0.8	1.7	3.0
Long slide	1.5	3.2	5.6
Additional slide	0.6	1.5	2.6
Central support	0.2	0.5	0.7

1) Incl. 2 slides, without central support

Toothed belt			
Size	35	45	55
Pitch [mm]	2	3	3
Expansion [%]	0.094	0.08	0.21
Width [mm]	10	15	19.3
Effective diameter [mm]	18.46	24.83	28.65
Feed constant [mm/rev.]	58	78	90

Mass moment of inertia			
Size	35	45	55
J <sub>0</sub>			
Standard slide [kg mm <sup>2</sup> ]	76.12	289.55	656.98
Long slide [kg mm <sup>2</sup> ]	128.6	522.01	1,212.78
J <sub>S</sub> per metre stroke [kg mm <sup>2</sup> /m]	0.26	1.1	1.9
J <sub>L</sub> per kg effective load [kg mm <sup>2</sup> /kg]	85	154	205
J <sub>W</sub> Additional slide [kg mm <sup>2</sup> ]	55	224	533

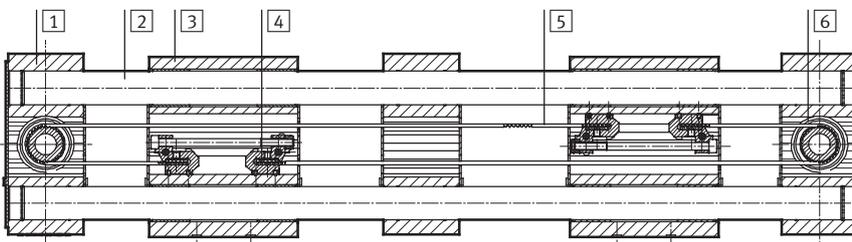
The mass moment of inertia J<sub>A</sub> of the entire axis is calculated as follows:

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

K = Number of additional slides

## Materials

Sectional view



Axis		
1	Bearing cap, profile	Anodised wrought aluminium alloy
2	Guide rods	Steel
3	Slide, profile	Anodised wrought aluminium alloy
4	Toothed belt clamping component	Beryllium bronze
5	Toothed belt	Polychloroprene with glass cord and nylon coating
6	Pulley	High-alloy stainless steel
Note on materials		RoHS-compliant
		Contains PWIS (paint-wetting impairment substances)

# Toothed belt axes ELGG

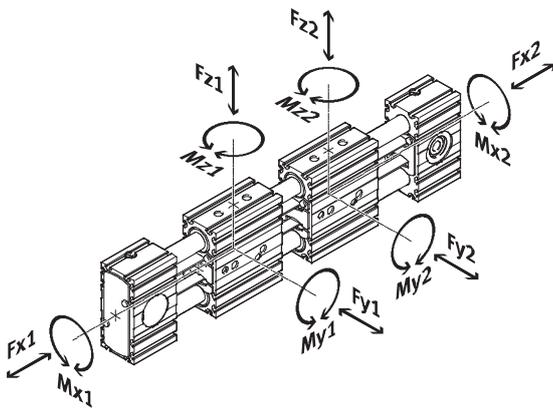
Technical data

## Characteristic load values

The indicated forces and torques refer to the centre of the guide. These values must not be exceeded during dynamic operation. Special attention must be paid to the cushioning phase.

### Without central support

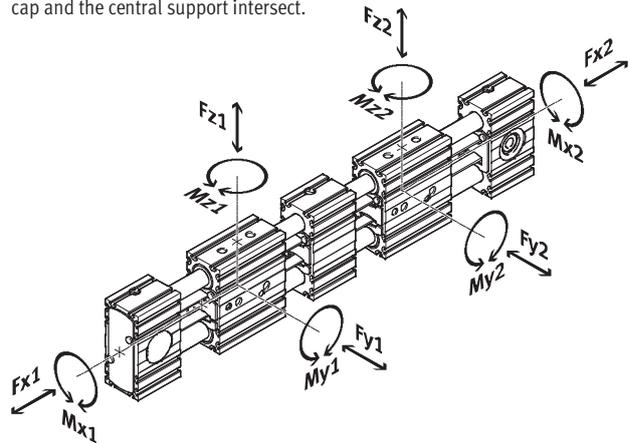
The point of application of force is the point where the centre of the guide and the centre point between the two bearing caps intersect.



If the axis is subjected to more than two of the indicated forces and torques simultaneously, the following equation must be satisfied in addition to the indicated maximum loads:

### With central support

The point of application of force is the point where the centre of the guide and the centre point between the bearing cap and the central support intersect.



### Without central support

Calculating the load comparison factor:

$$f_v = \frac{|F_{y1,dyn} + F_{y2,dyn}|}{F_{Ymax.}} + \frac{|F_{z1,dyn} + F_{z2,dyn}|}{F_{Zmax.}} + \frac{|M_{x1,dyn} + M_{x2,dyn}|}{M_{Xmax.}} + \frac{|M_{y1,dyn} + M_{y2,dyn}|}{M_{Ymax.}} + \frac{|M_{z1,dyn} + M_{z2,dyn}|}{M_{Zmax.}} \leq 1$$

### With central support

Calculating the load comparison factor:

$$f_v = \frac{|F_{y1,dyn}|}{F_{Ymax.}} + \frac{|F_{z1,dyn}|}{F_{Zmax.}} + \frac{|M_{x1,dyn}|}{M_{Xmax.}} + \frac{|M_{y1,dyn}|}{M_{Ymax.}} + \frac{|M_{z1,dyn}|}{M_{Zmax.}} \leq 1 \quad f_v = \frac{|F_{y2,dyn}|}{F_{Ymax.}} + \frac{|F_{z2,dyn}|}{F_{Zmax.}} + \frac{|M_{x2,dyn}|}{M_{Xmax.}} + \frac{|M_{y2,dyn}|}{M_{Ymax.}} + \frac{|M_{z2,dyn}|}{M_{Zmax.}} \leq 1$$

## Permissible forces and torques for a service life of 2,500 km per slide

Guide	Plain-bearing guide			Recirculating ball bearing guide		
Size	35	45	55	35	45	55
F <sub>Ymax.</sub> , F <sub>Zmax.</sub> [N]	50	100	300	50	100	300
Standard slide						
M <sub>Xmax.</sub> [Nm]	1	2.5	5	2.5	5	15
M <sub>Ymax.</sub> [Nm]	4	8	16	8	16	48
M <sub>Zmax.</sub> [Nm]	4	8	16	8	16	48
Long slide						
M <sub>Xmax.</sub> [Nm]	1	2.5	5	2.5	5	15
M <sub>Ymax.</sub> [Nm]	10	20	40	20	40	124
M <sub>Zmax.</sub> [Nm]	10	20	40	20	40	124

# Toothed belt axes ELGG

Technical data

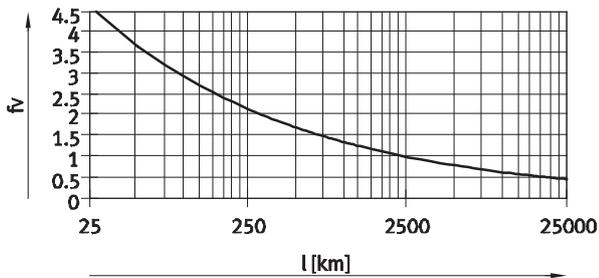
## Service life

The service life of the guide depends on the load. To provide a rough indication of the service life of the guide, the graph below plots the load comparison factor  $f_v$  against the service life.

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

comparison factors  $f_v$  greater than 1.5.

Load comparison factor  $f_v$  as a function of service life



Example:

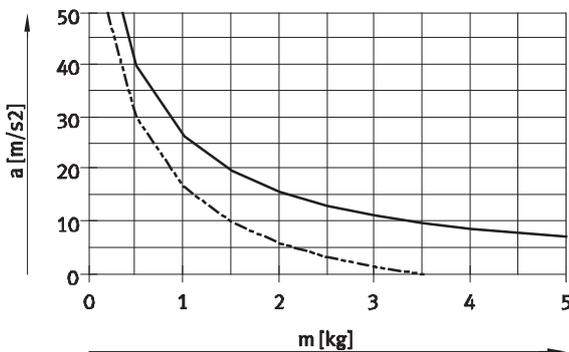
A user wants to move an X kg load. Using the formula  $\rightarrow 10$  gives a value of 1.5 for the load comparison factor  $f_v$ . According to the graph, the guide would have a service life of

approx. 750 km. Reducing the acceleration reduces the  $M_z$  and  $M_y$  values. A load comparison factor of 1 now gives a service life of 2,500 km.

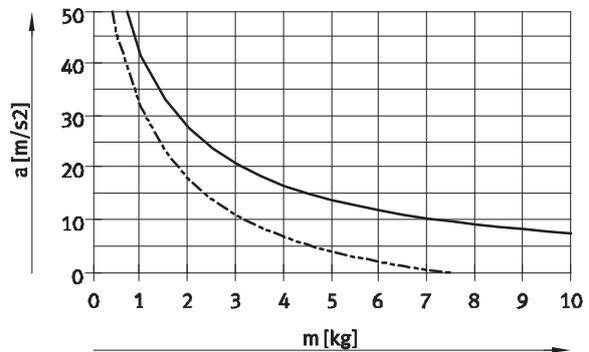
Note  
PositioningDrives  
sizing software  
www.festo.com

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

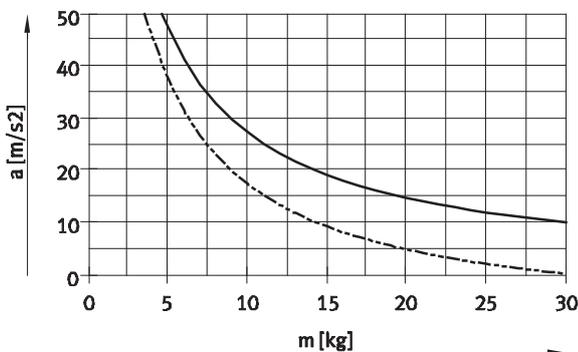
ELGG-35



ELGG-45



ELGG-55



Note  
For the plain-bearing guide (GF) it is recommended to reduce the acceleration to minimise overshings and increase positioning accuracy.

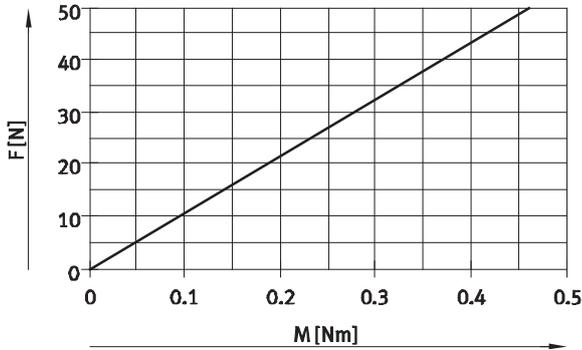
— Horizontal  
- - - Vertical

# Toothed belt axes ELGG

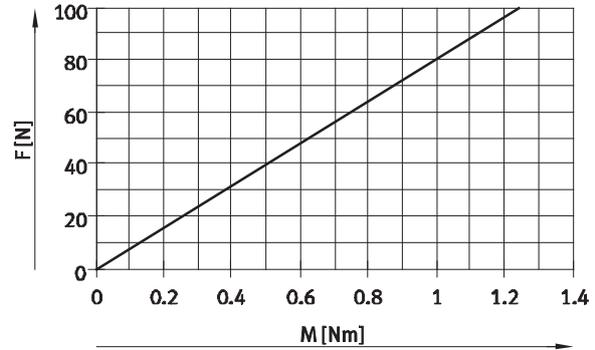
Technical data

## Feed force $F_x$ as a function of input torque M

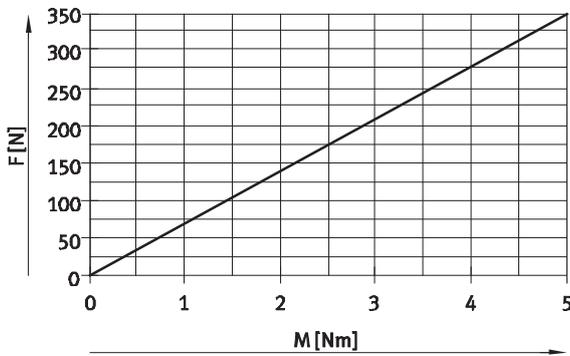
ELGG-35



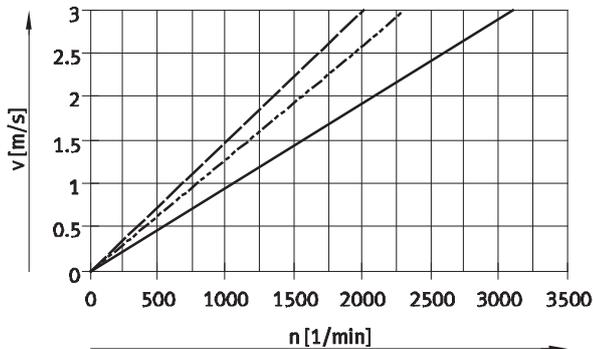
ELGG-45



ELGG-55

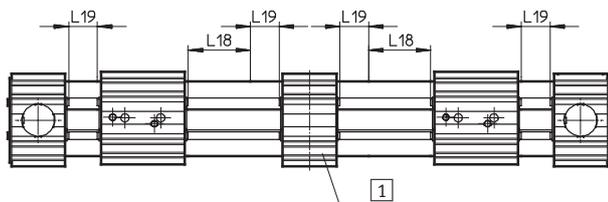


## Speed v as a function of rotational speed n



— ELGG-35  
 - - - ELGG-45  
 - · - ELGG-55

## Stroke reserve



L18 = Nominal stroke  
 L19 = Stroke reserve  
 1 Central support

- The stroke reserve is a safety distance available on both sides of the slide in addition to the nominal stroke
- The sum of the nominal stroke and 2x stroke reserve must not exceed the maximum working stroke per slide

- The stroke reserve length can be freely selected
- The stroke reserve is defined via the “stroke reserve” attribute in the modular product system

### Example:

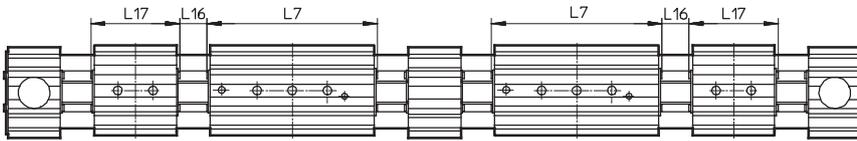
Type ELGG-TB-45-500-20H-...  
 Nominal stroke = 500 mm  
 2x stroke reserve = 40 mm  
 Working stroke per slide = 540 mm  
 (540 mm = 500 mm + 2x 20 mm)

# Toothed belt axes ELGG

Technical data

## Working stroke reduction

With standard slide or long slide L with additional slide ZB



L7 = Slide length  
 L16 = Distance between both slides  
 L17 = Additional slide length

- With a toothed belt axis with additional slide, the working stroke is reduced by the length of the additional slide and the distance between both slides

- If the variant long slide L is ordered, the additional slide is not extended

### Example:

Type ELGG-TB-35-500-...-ZR

Working stroke = 500 mm

L16 = 10 mm

L7 = 146 mm

L17 = 76 mm

Working stroke per slide

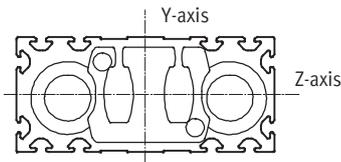
with additional slide = 414 mm

(500 mm – 10 mm – 76 mm)

## Dimensions – Additional slide

Size	35	45	55
Length L17 [mm]	76	96	116
Distance between the slides L16 [mm]	≥ 0		

## 2nd moment of area



Size	35	45	55
ly [mm <sup>4</sup> ]	3.77x10 <sup>3</sup>	1.57x10 <sup>4</sup>	3.83x10 <sup>4</sup>
lz [mm <sup>4</sup> ]	1.89x10 <sup>5</sup>	8.08x10 <sup>5</sup>	1.85x10 <sup>6</sup>

## Recommended deflection limits

It is recommended to adhere to a maximum deflection of 0.5 mm so as not to impair the functionality of the axes.

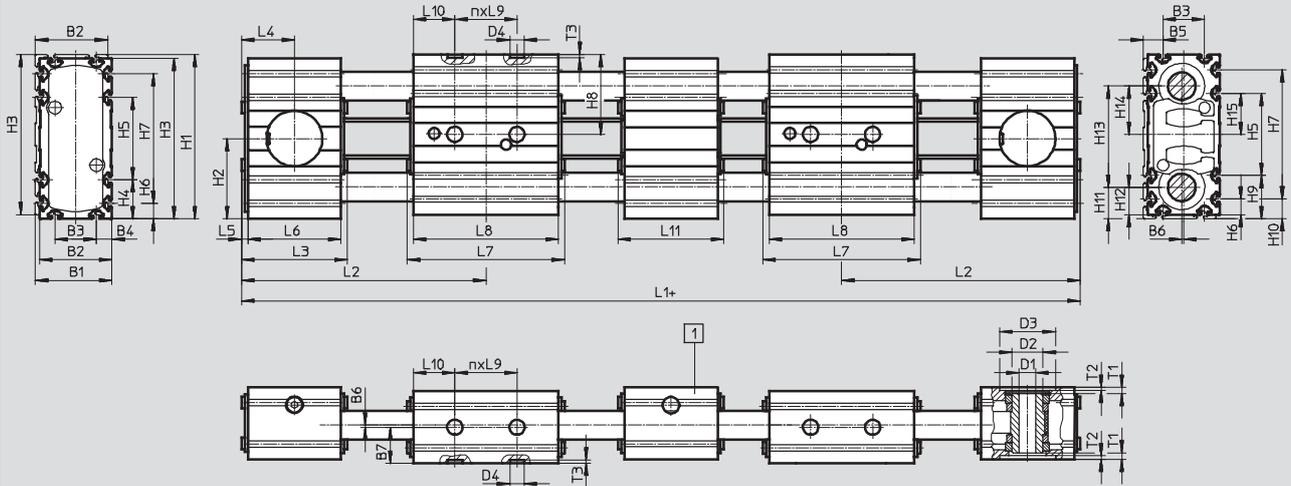
Greater deformation can result in increased friction, greater wear and reduced service life.

# Toothed belt axes ELGG

Technical data

**Dimensions**

Download CAD data → [www.festo.com](http://www.festo.com)



 Note

With the size 35 and stroke > 350 mm,  
 size 45 and stroke > 450 mm,  
 size 55 and stroke > 700 mm,  
 the toothed belt axis is always supplied with  
 central support M.

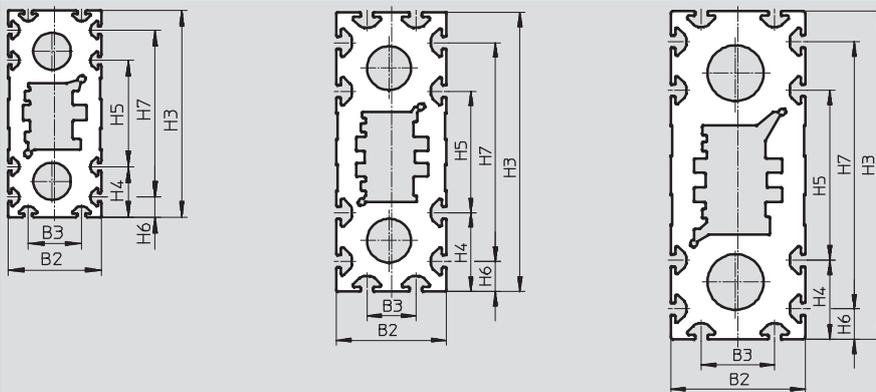
+ Plus 2x stroke + 4x stroke reserve + L11  
 1 Central support

**Profile**

ELGG-35

ELGG-45

ELGG-55



# Toothed belt axes ELGG

Technical data

Size	B1	B2	B3	B4	B5	B6	B7	D1 ∅ H7	D2 ∅	D3 ∅ H7	D4 ∅ H7	H1	H2	H3
ELGG-35	37	35	20	7.5	9.5	1	17.5	8	15	27	7	80	39	78
ELGG-35-L														
ELGG-45	47	45	20	12.5	14.5		22.5	10	20	38		117	57.5	115
ELGG-45-L														
ELGG-55	57	55	30	12.5	14.5		27.5	16	25	48		137	67.5	135
ELGG-55-L														

Size	H4	H5	H6	H7	H8	H9	H10	H11	H12	H13	H14	H15	L1	L2
ELGG-35	19	40	7.5	63	39	21	9.5	15.5	13.5	49	23.5	20	259	89
ELGG-35-L													399	124
ELGG-45	32.5	50	12.5	90	57.5	34.5	14.5	23	21	71	34.5	25	317	108
ELGG-45-L													497	153
ELGG-55	32.5	70	12.5	110	67.5	34.5	14.5	25.5	23.5	86	42	35	361	120
ELGG-55-L													581	175

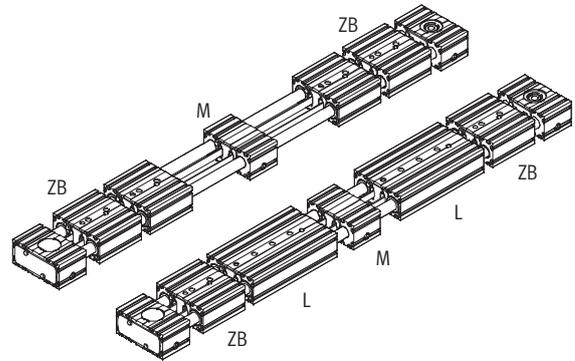
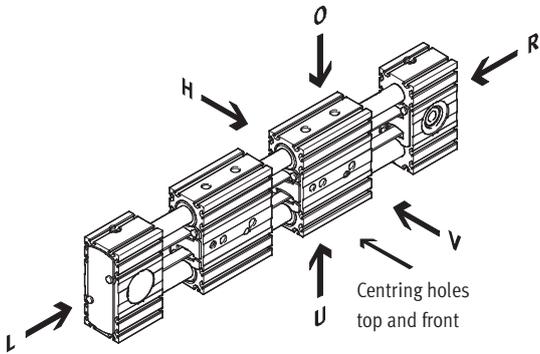
Size	L3	L4	L5	L6	L7	L8	L9	L10	L11	n	T1	T2	T3 +0.1
ELGG-35	51	25.5	3	45	76	70	30	20	51	1	3.1	1.6	1.6
ELGG-35-L					146	140		40		2			
ELGG-45	60	30		54	96	90	40	25	60	1	3	1.7	
ELGG-45-L					186	180		50		2			
ELGG-55	62	31		56	116	110	40	35	62	1	4.5	2	
ELGG-55-L					226	220		70		2			

# Toothed belt axes ELGG

Ordering data – Modular products

**Order code**

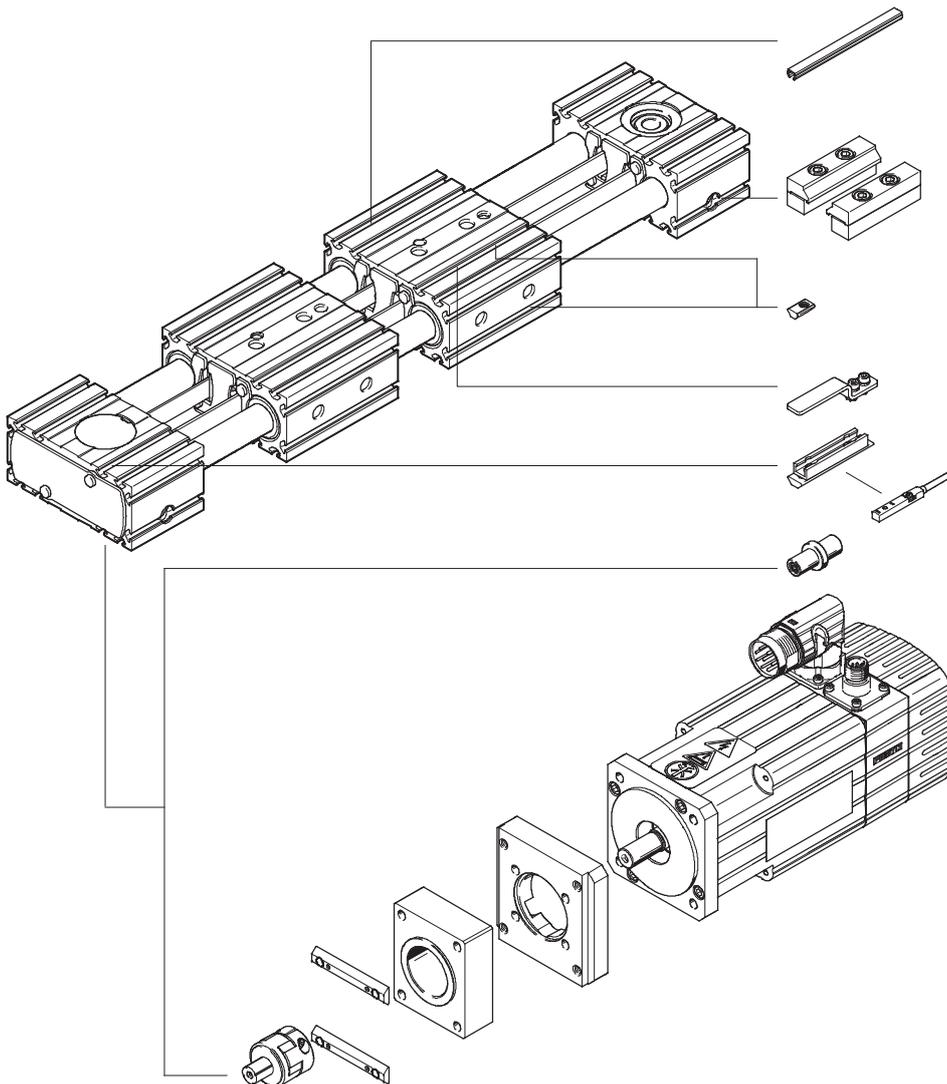
Axis



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

- L Long slide
- ZB Additional slide
- M Central support

**Accessories**



NC

MA

NM

SA, SB

SA, SB

EA

Servo motor EMMS-AS  
Stepper motor EMMS-ST  
→ 18

Axial kit  
→ 18

# Toothed belt axes ELGG

Ordering data – Modular products

Ordering table						
Size	35	45	55	Condi- tions	Code	Enter code
<b>M</b> Module no.	<b>571058</b>	<b>571059</b>	<b>571060</b>			
Design	Linear axis				<b>ELGG</b>	ELGG
Function	Toothed belt				<b>-TB</b>	-TB
<b>O</b> Guide	Recirculating ball bearing guide					
	Plain-bearing guide				<b>-GF</b>	
<b>M</b> Size [mm]	35	45	55		-...	-...
Stroke length per slide [mm]	1 ... 700	1 ... 900	1 ... 1,200		-...	-...
Stroke reserve per slide	0 ... 999 (0 = no stroke reserve)			<b>1</b>	<b>-...H</b>	
<b>O</b> Slide design	Standard slide					
	Long slide				<b>-L</b>	
Additional slide	No additional slide					
	1 slide on right, 1 slide on left			<b>2</b>	<b>-ZB</b>	
Additional function	None					
	Central support			<b>3</b>	<b>-M</b>	
Accessories	Accessories enclosed separately				<b>+</b>	<b>+</b>
Proximity sensor (SIES), inductive, T-slot, PNP, incl. switching lug	N/O contact, cable 7.5 m	1 ... 6			<b>...SA</b>	
	N/C contact, cable 7.5 m	1 ... 6			<b>...SB</b>	
Mounting slot cover	-	1 ... 50 (1 = 2 units, 500 mm)			<b>...NC</b>	
Slot nut for mounting slot	1 ... 99				<b>...NM</b>	
Drive shaft	1 ... 4				<b>...EA</b>	
Profile mounting	1 ... 2				<b>...MA</b>	

**1** The sum of the nominal stroke and 2x stroke reserve must be at least 50 mm and must not exceed the maximum stroke length.

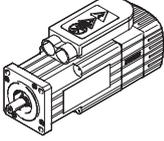
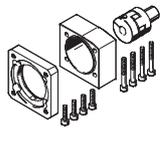
**3 M** With the size 35 and stroke > 350 mm, size 45 and stroke > 450 mm, size 55 and stroke > 700 mm, the toothed belt axis is always supplied with central support M.

**2 ZB** Working stroke reduction → 13

Transfer order code

## Toothed belt axes ELGG

Accessories

Permissible axis/motor combinations with axial kit – Without gear unit				
Motor	Axial kit	Axial kit consisting of:		
		Motor flange	Coupling	Coupling housing
				
Type	Part No. Type	Part No. Type	Part No. Type	Part No. Type
<b>ELGG-35</b>				
With servo motor				
EMMS-AS-55-S-...	1133400 EAMM-A-R27-55A	558176 EAMF-A-38A-55A	557999 EAMD-19-15-9-8X10	1133397 EAMK-A-R27-38A
With stepper motor				
EMMS-ST-57-S-...	1133403 EAMM-A-R27-57A	560692 EAMF-A-38A-57A	561292 EAMD-16-15-6.35-8X10	1133397 EAMK-A-R27-38A
EMMS-ST-57-M-...				
<b>ELGG-45</b>				
With servo motor				
EMMS-AS-70-S-...	1133401 EAMM-A-R38-70A	558018 EAMF-A-38A-70A	558000 EAMD-25-22-11-10X12	1133398 EAMK-A-R38-38A
EMMS-AS-70-M-...				
With stepper motor				
EMMS-ST-87-S-...	1133404 EAMM-A-R38-87A	560693 EAMF-A-38A-87A	558000 EAMD-25-22-11-10X12	1133398 EAMK-A-R38-38A
EMMS-ST-87-M-...				
<b>ELGG-55</b>				
With servo motor				
EMMS-AS-100-S-...	1133402 EAMM-A-R48-100A	558020 EAMF-A-48A-100A	558002 EAMD-42-40-19-16X25	1133399 EAMK-A-R48-48A
With stepper motor				
EMMS-ST-87-S-...	1133405 EAMM-A-R48-87A	560695 EAMF-A-48A-87A	558001 EAMD-32-32-11-16X20	1133399 EAMK-A-R48-48A
EMMS-ST-87-M-...				
EMMS-ST-87-L-...				

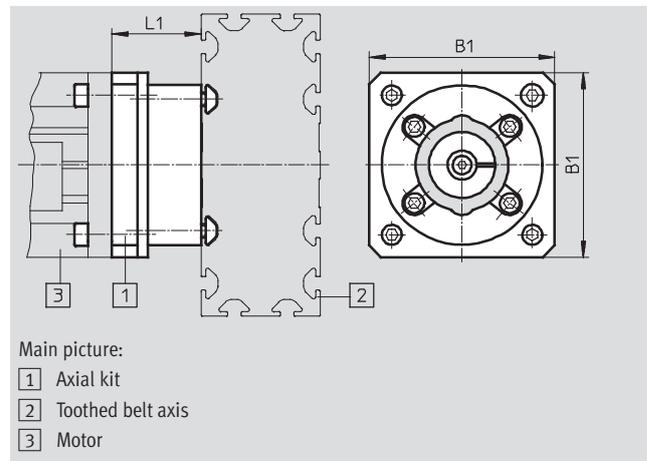
## Toothed belt axes ELGG

Accessories

### Axial kit EAMM-A-...

Materials:

Coupling housing, coupling hubs,  
motor flange: Aluminium  
Screws: Galvanised steel



General technical data							
EAMM-A-...		R27-		R38-		R48-	
		55A	57A	70A	87A	87A	100A
Transferable torque	[Nm]	2	1.6	4.4	4.4	12.5	17
Mass moment of inertia	[kgmm <sup>2</sup> ]	0.445	0.355	3.2	3.2	14.5	39
Max. rotational speed	[rpm]	10,000	10,000	8,000	8,000	8,000	6,000
Mounting position		Any					

Operating and environmental conditions		
Ambient temperature	[°C]	-10 ... +60
Storage temperature	[°C]	-25 ... +60
Protection class <sup>1)</sup>		IP40
Relative air humidity	[%]	0 ... 95

1) Only in combination with attached motor and axis

Dimensions and ordering data						
Type	B1	L1	Weight [g]	Part No.	Type	
EAMM-A-R27-55A	55	26	170	1133400	EAMM-A-R27-55A	
EAMM-A-R27-57A	56	26	170	1133403	EAMM-A-R27-57A	
EAMM-A-R38-70A	70	33.75	350	1133401	EAMM-A-R38-70A	
EAMM-A-R38-87A	85.8	38	530	1133404	EAMM-A-R38-87A	
EAMM-A-R48-87A	85.8	44	590	1133405	EAMM-A-R48-87A	
EAMM-A-R48-100A	100.5	59	970	1133402	EAMM-A-R48-100A	

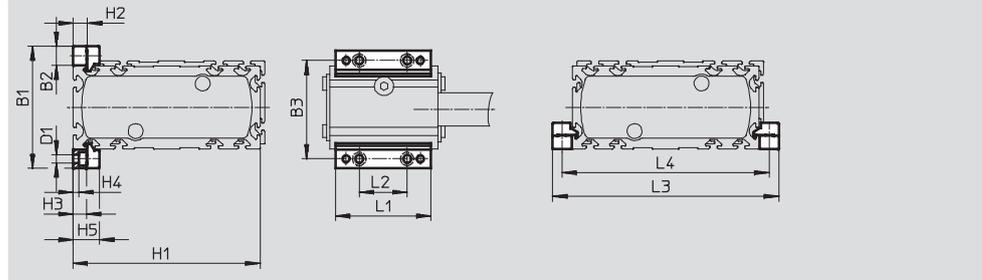
# Toothed belt axes ELGG

Accessories

**Profile mounting MUE**  
(order code: MA)

Material:  
Anodised aluminium  
RoHS-compliant

 **Note**  
The central support can also be mounted with the profile mounting.



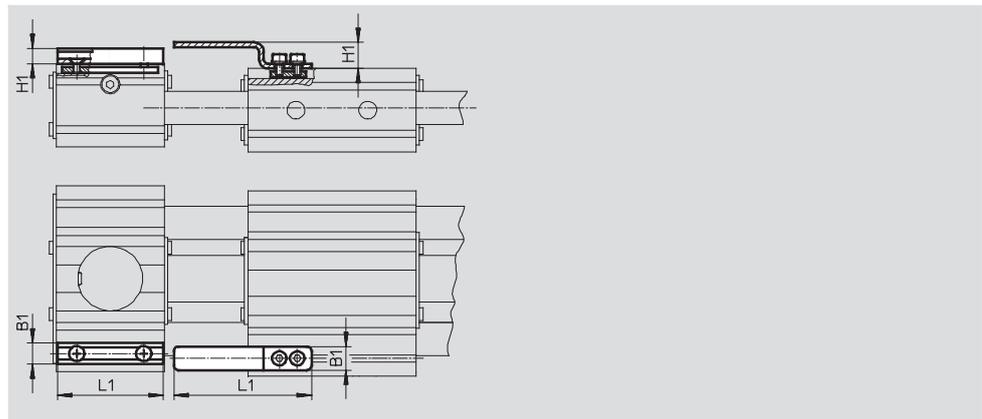
Dimensions and ordering data								
For size	B1	B2	B3	D1	H1	H2	H3	H4
35	51	8	43	3.4	78	6	5.5	2.3
45	69	12	57	5.5	115	10	9	3.2
55	79	12	67	5.5	135	10	9	3.2

For size	H5	L1	L2	L3	L4	Weight [g]	Part No.	Type
35	11	40	20	94	86	20	558042	MUE-50
45	17.5	52	40	139	127	32	562238	MUE-45
55	17.5	52	40	159	147	32	562238	MUE-45

**Sensor bracket EAPM-...-SHS,**  
**switching lug EAPM-...-SLS**  
(order code SA/SB)

Materials:  
Switching lug: Galvanised steel  
Sensor bracket: Anodised wrought aluminium alloy  
RoHS-compliant

 **Note**  
The sensor bracket can also be mounted on the central support.



Dimensions and ordering data								
For size	B1	H1	L1	Weight [g]	Part No.	Type		
<b>Sensor bracket</b>								
35, 45, 55	9	6.5	44	20	567537	EAPM-L4-SHS		
<b>Switching lug</b>								
35, 45, 55	10	11	57.5	15	567538	EAPM-L4-SLS		

# Toothed belt axes ELGG

Accessories

Ordering data						
	For size	Comment	Order code	Part No.	Type	PU <sup>1)</sup>
<b>Drive shaft EAMB</b>						
	35	Alternative interface	EA	558034	EAMB-16-7-8X15-8X10	1
	45			558035	EAMB-18-9-8X16-10X12	
	55			558036	EAMB-24-6-15X21-16X20	
<b>Slot nut NST</b>						
	35	For mounting slot	NM	558045	NST-3-M3	1
	45, 55			150914	NST-5-M5	
<b>Centring sleeve ZBH<sup>2)</sup></b>						
	35, 45, 55	For slide	-	186717	ZBH-7	10
<b>Slot cover ABP</b>						
	45, 55	For mounting slot every 0.5 m	NC	151681	ABP-5	2

1) Packaging unit

2) 4 centring sleeves included in the scope of delivery of the axis

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

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	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	