

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide



Electromechanical drives

Selection aid



Overview of toothed belt and spindle axes

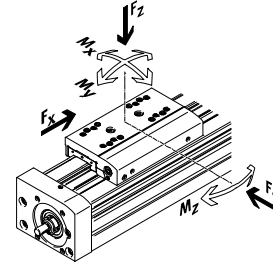
Toothed belt axes

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

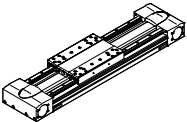
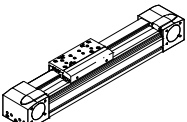
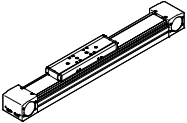
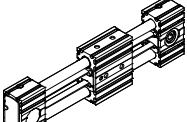
Spindle axes

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

Coordinate system



Toothed belt axes

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

Electromechanical drives

Selection aid

Overview of toothed belt and spindle axes

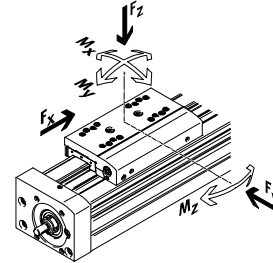
Toothed belt axes

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

Spindle axes

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

Coordinate system



Toothed belt axes

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

Electromechanical drives

Selection aid



Overview of toothed belt and spindle axes

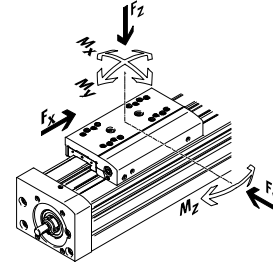
Toothed belt axes

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

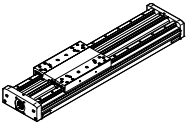
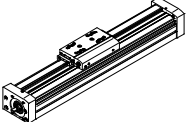
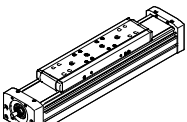
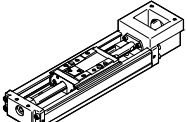
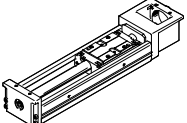
Spindle axes

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

Coordinate system



Spindle axes

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

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Key features

At a glance

Powerful

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

Economical

- In addition to its technical data, the toothed belt axis also offers an excellent price/performance ratio
- Due to the EGC's high performance it is often possible to use a smaller size

Versatile

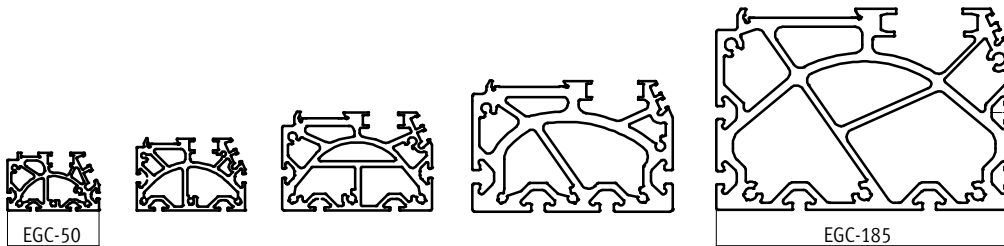
- Numerous sizes and variants such as protected guides open up a broad range of applications
- Space-saving position sensing with proximity sensors in the profile slot is possible
- Wide range of options for mounting on drives
- Comprehensive range of mounting accessories for multi-axis combinations

Flexible motor attachment

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

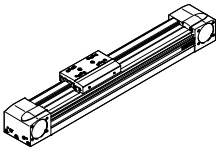


Comprehensive range for the most varied load conditions



Characteristic values of the axes

The specifications shown in the table are maximum values. The precise values for each of the variants can be found in the relevant technical data in the catalogue.

| Version | Size | Working stroke [mm] | Speed [m/s] | Repetition accuracy [mm] | Feed force [N] | Guide characteristics | | | | |
|---|------|------------------------|----------------|-----------------------------|-------------------|-----------------------|-----------------------|------------------------|------------------------|------------------------|
| | | | | | | Forces and torques | | | | |
| | | | | | | F _y [N] | F _z [N] | M _x [Nm] | M _y [Nm] | M _z [Nm] |
| Recirculating ball bearing guide | | | | | | | | | | |
|  | 50 | 50 ... 1900 | 3 | ±0.08 | 50 | 650 | 650 | 3.5 | 10 | 10 |
| | 70 | 50 ... 5000 | 5 | ±0.08 | 100 | 1850 | 1850 | 16 | 132 | 132 |
| | 80 | 50 ... 8500 | 5 | ±0.08 | 350 | 3050 | 3050 | 36 | 228 | 228 |
| | 120 | 50 ... 8500 | 5 | ±0.08 | 800 | 6890 | 6890 | 144 | 680 | 680 |
| | 185 | 50 ... 8500 | 5 | ±0.1 | 2500 | 15200 | 15200 | 529 | 1820 | 1820 |

-  - Note

PositioningDrives
sizing software
www.festo.com

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Key features

Slide variants

Standard slide



Extended slide



Additional slide



Guide options

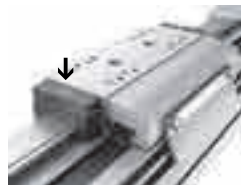
Protected version



- The protected guide cleans the guide rail and protects the recirculating ball bearing guide with the aid of an additional wiper

With central lubrication

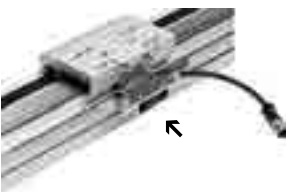
→ 23



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

Displacement encoder

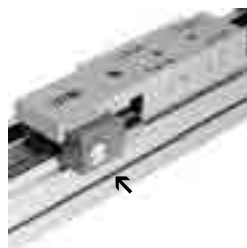
→ 14



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

Clamping unit

→ 15



- 1 or 2-channel design, for holding loads
- Reliable holding is guaranteed since the forces act directly on the slide
- A limited number of emergency braking operations are permissible with the sizes 120 and 185

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Key features

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

Toothed belt axis with recirculating ball bearing guide




Motor

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

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

Motorcontroller

Technical data → Internet: motorcotroller



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

Motor mounting kit

→46

Axial kit

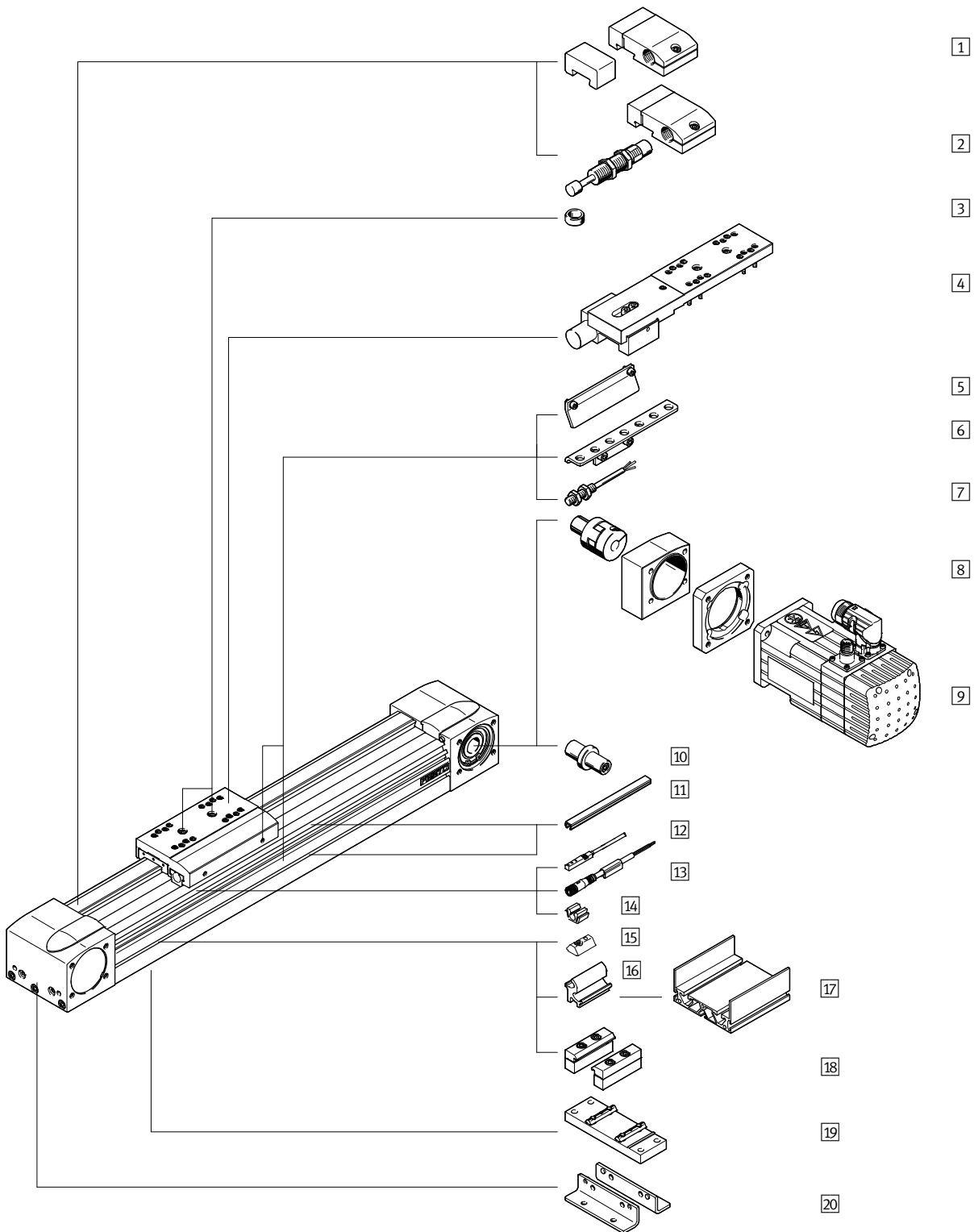


Kit comprising:

- Motor flange
- Coupling housing
- Coupling
- Screws

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Peripherals overview



Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Peripherals overview

| Variants and accessories | | |
|------------------------------------|---|-----------------|
| Type | Description | → Page/Internet |
| 1 Emergency buffer with retainer A | For avoiding damage at the end stop in the event of malfunction | 53 |
| 2 Shock absorber with retainer C | For avoiding damage at the end stop in the event of malfunction | 53 |
| 3 Centring pin/sleeve ZBS, ZBH | <ul style="list-style-type: none"> For centring loads and attachments on the slide 2 centring pins/sleeves included in the scope of delivery of the axis | 56 |
| 4 Clamping unit 1H...-PN, 2H-PN | For holding loads | 15 |
| 5 Switch lug X, Z, O, P, W, R | For sensing the slide position | 53 |
| 6 Sensor bracket O, P, W, R | Adapter for mounting the inductive proximity sensors (round design) on the axis | 54 |
| 7 Proximity sensor, M8 O, P, W, R | <ul style="list-style-type: none"> Inductive proximity sensor, round design The order code O, P, W, R includes 1 switch lug and max. 2 sensor brackets in the scope of delivery | 58 |
| 8 Axial kit EAMM_A | For axial motor mounting (consisting of: coupling, coupling housing and motor flange) | 46 |
| 9 Motor EMME, EMMS | Motors specially matched to the axis, with or without gear unit, with or without brake | 46 |
| 10 Drive shaft K | <ul style="list-style-type: none"> Can, if required, be used as an alternative interface No drive shaft is required for the axis/motor combinations → from 46 | 55 |
| 11 Slot cover B, S | <ul style="list-style-type: none"> For protecting against ingress of dirt | 56 |
| 12 Proximity sensor, T-slot X, Z | <ul style="list-style-type: none"> Inductive proximity sensor, for T-slot The order code X, Z includes 1 switch lug in the scope of delivery | 57 |
| 13 Connecting cable V | For proximity sensor (order code W and R) | 58 |
| 14 Clip CL | For mounting the proximity sensor cable in the slot | 56 |
| 15 Slot nut Y | For mounting attachments | 56 |
| 16 Adapter kit DHAM | For mounting the support profile on the axis | 57 |
| 17 Support profile HMIA | For mounting and guiding an energy chain | 57 |
| 18 Profile mounting M | For mounting the axis on the side of the profile | 51 |
| 19 Central support EAHF EAHF-L5 | For mounting the axis from underneath on the profile | 52 |
| 20 Foot mounting F | For mounting the axis on the end cap | 50 |
| – Passive guide axis EGC-FA | Axis without drive | egc-fa |
| – Connecting shaft KSK | For connecting two toothed belt axes EGC-TB in three-dimensional gantries | ksk |

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Type codes

EGC - 70 - 500 - TB - KF - - GK

Type

EGC Toothed belt axis

Size

Stroke [mm]

Drive function

TB Toothed belt

Guide

KF Recirculating ball bearing guide

Stroke reserve

Slide

GK Standard slide

GV Extended slide

GP Standard slide, protected

GQ Extended slide, protected

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

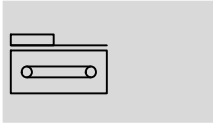
Type codes




| | | | | | | | | | | | | | | | |
|--|--|---|--|---|--|---|--|---|--|---|--|-------|--------|---|----|
| → | | - | | - | | - | | - | | - | | ZUB - | F2MX2Z | - | DN |
| Additional slide | | | | | | | | | | | | | | | |
| KL | Standard, left | | | | | | | | | | | | | | |
| Additional slide | | | | | | | | | | | | | | | |
| KR | Standard, right | | | | | | | | | | | | | | |
| Lubrication function | | | | | | | | | | | | | | | |
| - | Standard | | | | | | | | | | | | | | |
| C | Lubrication adapter | | | | | | | | | | | | | | |
| Displacement encoder, incremental | | | | | | | | | | | | | | | |
| M1 | Resolution: 2.5 µm | | | | | | | | | | | | | | |
| M2 | Resolution: 10 µm | | | | | | | | | | | | | | |
| Clamping unit | | | | | | | | | | | | | | | |
| 1HL | 1-channel, left | | | | | | | | | | | | | | |
| 1HR | 1-channel, right | | | | | | | | | | | | | | |
| 2H | 2-channel | | | | | | | | | | | | | | |
| Actuation type | | | | | | | | | | | | | | | |
| PN | Pneumatically actuated | | | | | | | | | | | | | | |
| Accessories enclosed separately | | | | | | | | | | | | | | | |
| F | Foot mounting | | | | | | | | | | | | | | |
| ...M | Profile mounting | | | | | | | | | | | | | | |
| ...B | Mounting slot cover | | | | | | | | | | | | | | |
| ...S | Sensor slot cover | | | | | | | | | | | | | | |
| ...Y | Slot nut for mounting slot | | | | | | | | | | | | | | |
| ...X | Proximity sensor (SIES), inductive, slot type 8, PNP, N/O contact, 7.5 m cable | | | | | | | | | | | | | | |
| ...Z | Proximity sensor (SIES), inductive, slot type 8, PNP, N/C contact, 7.5 m cable | | | | | | | | | | | | | | |
| ...A | Emergency buffer with retainer | | | | | | | | | | | | | | |
| ...C | Shock absorber with retainer | | | | | | | | | | | | | | |
| ...O | Proximity sensor (SIEN), inductive, M8, PNP, N/O contact, 2.5 m cable | | | | | | | | | | | | | | |
| ...P | Proximity sensor (SIEN), inductive, M8, PNP, N/C contact, 2.5 m cable | | | | | | | | | | | | | | |
| ...W | Proximity sensor (SIEN), inductive, M8, PNP, N/O contact, plug M8 | | | | | | | | | | | | | | |
| ...R | Proximity sensor (SIEN), inductive, M8, PNP, N/C contact, plug M8 | | | | | | | | | | | | | | |
| ...V | Connecting cable | | | | | | | | | | | | | | |
| ...K | Drive shaft | | | | | | | | | | | | | | |
| ...CL | Cable clip | | | | | | | | | | | | | | |
| Operating instructions | | | | | | | | | | | | | | | |
| DN | None | | | | | | | | | | | | | | |

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Technical data

Function



-  Size
50 ... 185
-  Stroke length
50 ... 8500 mm
-  www.festo.com



| General technical data | | | | | | |
|---|---------------------|--|-------------|-------------|-------------|-------------|
| Size | | 50 | 70 | 80 | 120 | 185 |
| Design | | Electromechanical axis with toothed belt | | | | |
| Guide | | Recirculating ball bearing guide | | | | |
| Mounting position | | Any | | | | |
| Working stroke | | | | | | |
| EGC-...-GK/-GP | [mm] | 50 ... 1900 | 50 ... 5000 | 50 ... 8500 | 50 ... 8500 | 50 ... 8500 |
| EGC-...-GV/-GQ | [mm] | 50 ... 1900 | 50 ... 5000 | 50 ... 8500 | 50 ... 8400 | 50 ... 8400 |
| Max. feed force F_x | [N] | 50 | 100 | 350 | 800 | 2500 |
| Max. no-load torque ¹⁾ | [Nm] | 0.072 | 0.18 | 0.4 | 1.4 | 4.05 |
| Max. no-load resistance to shifting ¹⁾ | [N] | 8 | 14.5 | 28 | 70 | 110 |
| Max. driving torque | [Nm] | 0.46 | 1.24 | 5 | 16 | 93 |
| Max. speed | [m/s] | 3 | 5 | | | |
| Max. acceleration | [m/s ²] | 50 | | | | |
| Repetition accuracy | [mm] | ±0.08 | | | | ±0.1 |

1) At 0.2m/s, with variant GK or GV

| Operating and environmental conditions | | |
|--|------|-------------|
| Ambient temperature | [°C] | -10 ... +60 |
| Protection class | | IP40 |
| Duty cycle | [%] | 100 |

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Technical data

| Weight [g] | | | | | |
|---|-----|------|------|-------|-------|
| Size | 50 | 70 | 80 | 120 | 185 |
| Basic weight with 0 mm stroke ¹⁾ | | | | | |
| EGC-...-GK/-GP | 620 | 1850 | 3000 | 10500 | 32600 |
| EGC-...-GV/-GQ | – | 2470 | 3900 | 12600 | 36800 |
| Additional weight per 10 mm stroke | 19 | 44 | 62 | 150 | 300 |
| Moving load | | | | | |
| EGC-...-GK/-GP | 130 | 370 | 620 | 2180 | 6500 |
| EGC-...-GV/-GQ | – | 550 | 900 | 2730 | 7720 |
| Additional slide | | | | | |
| EGC-...-KL/-KR | 80 | 300 | 550 | 2000 | 6000 |
| Clamping unit | | | | | |
| EGC-...-1H...-PN | – | – | 700 | 2300 | 4900 |
| EGC-...-2H-PN | – | – | 1300 | 4000 | 8300 |

1) Incl. slide

| Toothed belt | | | | | |
|-----------------------------|-------|-------|-------|-------|-------|
| Size | 50 | 70 | 80 | 120 | 185 |
| Pitch [mm] | 2 | 3 | 3 | 5 | 8 |
| Expansion ¹⁾ [%] | 0.094 | 0.08 | 0.24 | 0.13 | 0.29 |
| Width [mm] | 10 | 15 | 19.3 | 30.3 | 50.5 |
| Effective diameter [mm] | 18.46 | 24.83 | 28.65 | 39.79 | 73.85 |
| Feed constant [mm/rev.] | 58 | 78 | 90 | 125 | 232 |

1) At max. feed force

| Mass moment of inertia | | | | | |
|---|-------|-------|--------|------|--------|
| Size | 50 | 70 | 80 | 120 | 185 |
| J ₀ | | | | | |
| EGC-...-GK [kg mm ²] | 16.94 | 83.34 | 205.9 | 1241 | 17976 |
| EGC-...-GV [kg mm ²] | – | 110 | 265 | 1465 | 19690 |
| J _H per metre stroke [kg mm ² /m] | 2.6 | 10.6 | 18.8 | 93 | 760 |
| J _L per kg effective load [kg mm ² /kg] | 85 | 154 | 205 | 396 | 1363.5 |
| J _W Additional slide [kg mm ²] | 3.56 | 56.32 | 126.73 | 861 | 8846 |
| J _F Clamping unit | | | | | |
| EGC-...-1H...-PN [kg mm ²] | – | – | 143.5 | 911 | 6681 |
| EGC-...-2H-PN [kg mm ²] | – | – | 266.5 | 1584 | 11317 |

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

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

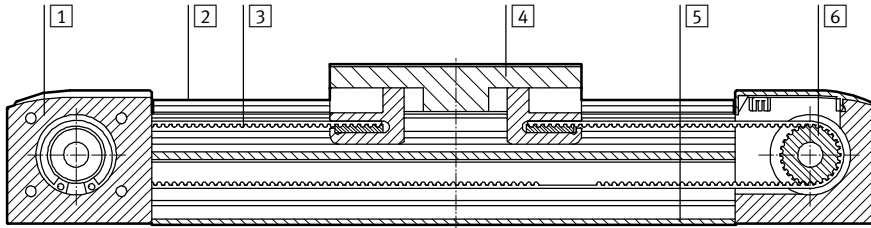
K= Number of additional slides

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Technical data

Materials

Sectional view



Axis

| | | |
|-------------------|-------------------|---|
| 1 | Drive cover | Anodised wrought aluminium alloy |
| 2 | Guide rail | High-alloy 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 | | RoHS-compliant |
| | | Contains PWIS (paint-wetting impairment substances) |

Technical data – Displacement encoder

Dimensions → 40

| Order code | EGC...-M1 | EGC...-M2 |
|----------------------------------|---|-----------|
| Resolution | [µm] 2.5 | 10 |
| Max. travel speed | [m/s] 4 | 4 |
| with motor controller CMMP-AS... | | |
| Encoder signal | 5 V TTL; A/A, B/B without zero pulse | |
| Signal output | Line Driver, push-pull, proof against continuous short circuits | |
| Electrical connection | 8-pin plug, round design, M12 | |
| Cable length | [mm] 160 | |

Operating and environmental conditions – Displacement encoder

| | |
|--|-----------------------------------|
| Ambient temperature | [°C] -10 ... +70 |
| Protection class | IP64 |
| CE marking (see declaration of conformity) | To EU EMC Directive ¹⁾ |

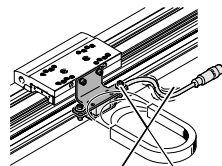
1) For information about the applicability of the component see the manufacturer's EC declaration of conformity at: www.festo.com/sp → User documentation.

If the component is subject to restrictions on usage in residential, office or commercial environments or small businesses, further measures to reduce the emitted interference may be necessary.

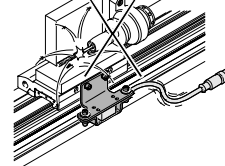
Instructions for use

The toothed belt axis with displacement encoder is not designed for the following sample applications:

- Magnetic field



- Welding application




Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Technical data

| Technical data – Clamping unit | | | | Dimensions → 36 |
|---|----------------------------|--|-----------|-----------------|
| Size | | 80 | 120 | 185 |
| Pneumatic connection | | M5 | M5 | M5 |
| Clamping type | | Clamping via spring force, released via compressed air | | |
| Static holding force | | | | |
| EGC-...-1H...-PN | [N] | 320 | 1200 | 1500 |
| EGC-...-2H-PN | [N] | 640 | 2400 | 3000 |
| Max. number of emergency braking operations ¹⁾ at reference energy | [J] | – | 750 35 | 750 70 |
| Number of clamping operations under nominal load | [million switching cycles] | 0.45 | 0.05 | > 1.4 |

1) Emergency braking refers to braking the effective load if the drive axis loses power.

| Operating and environmental conditions – Clamping unit | | | |
|--|-------|---|--|
| Operating medium | | Compressed air according to ISO 8573-1:2010 [7:4:4] | |
| Operating pressure | | | |
| Clamping unit opened | [bar] | 4.5 ... 8 | |
| Clamping unit closed | [bar] | Pressureless | |
| Ambient temperature | [°C] | –10 ... +60 | |

 Note
The axis can only be relubricated with the lubrication adapter when used in combination with the clamping unit (EGC-...-C).

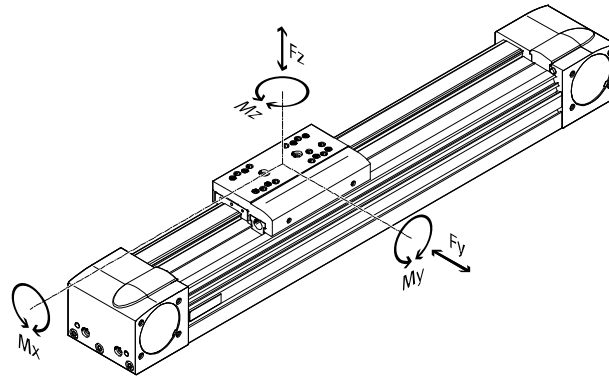
Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Technical data

Characteristic load values

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

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



| Max. permissible forces and torques for a service life of 5000 km | | | | | | |
|---|------|-----|------|------|------|-------|
| Size | | 50 | 70 | 80 | 120 | 185 |
| F _{y,max.} | [N] | 650 | 1850 | 3050 | 6890 | 15200 |
| F _{z,max.} | [N] | 650 | 1850 | 3050 | 6890 | 15200 |
| M _{x,max.} | [Nm] | 3.5 | 16 | 36 | 144 | 529 |
| M _{y,max./M_{z,max.}} | | | | | | |
| EGC...-GK/-GP | [Nm] | 10 | 51 | 97 | 380 | 1157 |
| M _{y,max./M_{z,max.}} | | | | | | |
| EGC...-GV/-GQ | [Nm] | - | 132 | 228 | 680 | 1820 |



Note

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

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

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

must be satisfied in addition to the indicated maximum loads:

Calculating the load comparison factor:

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

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Technical data

Calculating service life

The service life of the guide depends on the load. To provide a rough indication of the service life of the

guide, the graph below plots the load comparison factor f_v against the service life.

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

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

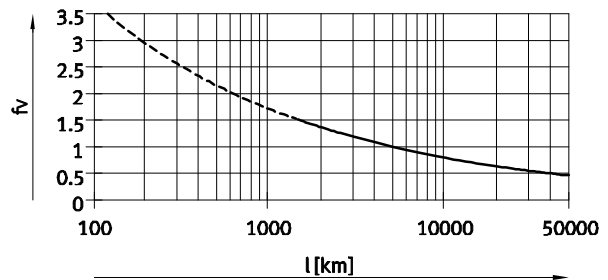
Load comparison factor f_v as a function of service life

Example:

A user wants to move an X kg load.

Using the formula $\rightarrow 16$ gives a value of 1.5 for the load comparison factor f_v . According to the graph, the guide would have a service life of

approx. 1500 km. Reducing the acceleration reduces the M_z and M_y values. A load comparison factor f_v of 1 now gives a service life of 5000 km.



Note

PositioningDrives
sizing software
www.festo.com

The guide workload for a service life of 5000 km can be calculated with the help of the sizing software.

$f_v > 1.5$ are only theoretical comparison values for the recirculating ball bearing guide.

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

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

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

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

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

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

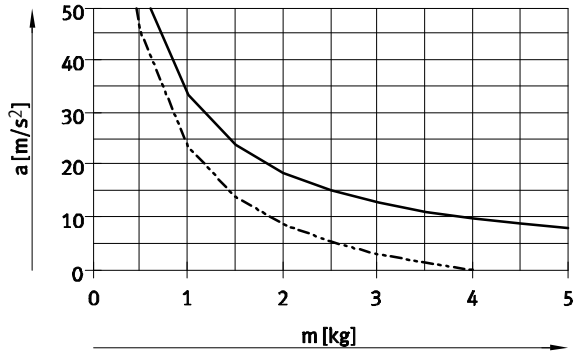
| Size | | 50 | 70 | 80 | 120 | 185 |
|---------------------------|------|------|------|-------|-------|-------|
| $F_{y_{max}}$ | [N] | 2395 | 6815 | 11236 | 25383 | 55997 |
| $F_{z_{max}}$ | [N] | 2395 | 6815 | 11236 | 25383 | 55997 |
| $M_{x_{max}}$ | [Nm] | 13 | 59 | 133 | 531 | 1949 |
| $M_{y_{max}}/M_{z_{max}}$ | | | | | | |
| EGC-...-GK/-GP | [Nm] | 37 | 188 | 357 | 1400 | 4262 |
| $M_{y_{max}}/M_{z_{max}}$ | | | | | | |
| EGC-...-GV/-GQ | [Nm] | - | 486 | 840 | 2505 | 6705 |

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

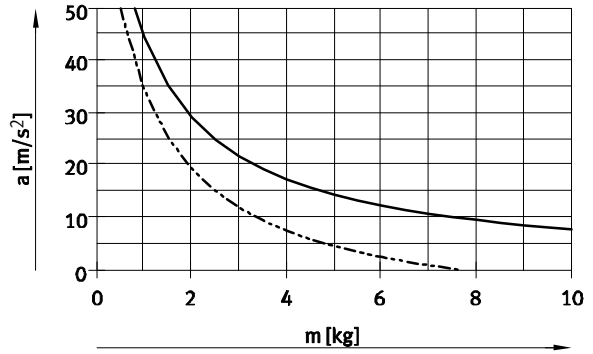
Technical data

Maximum acceleration a as a function of applied load m

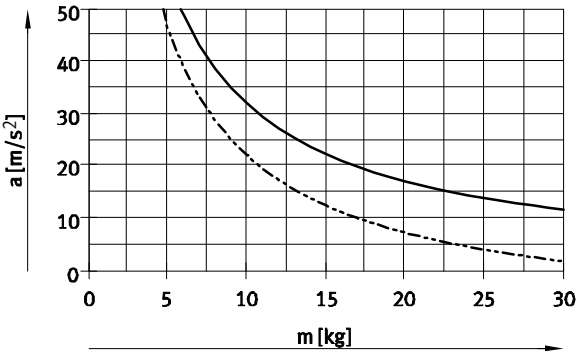
EGC-50



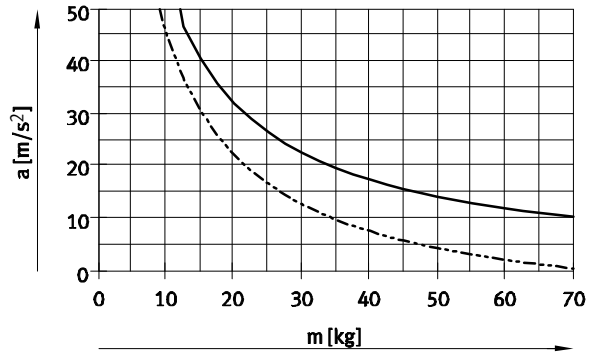
EGC-70



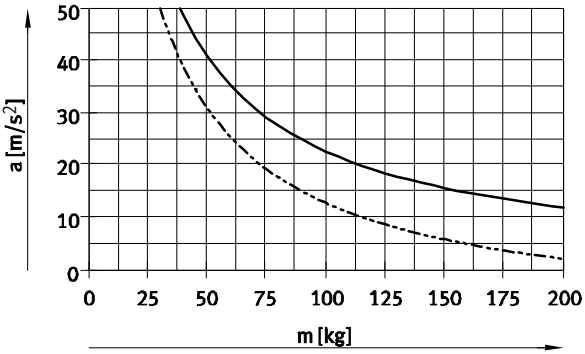
EGC-80



EGC-120



EGC-185

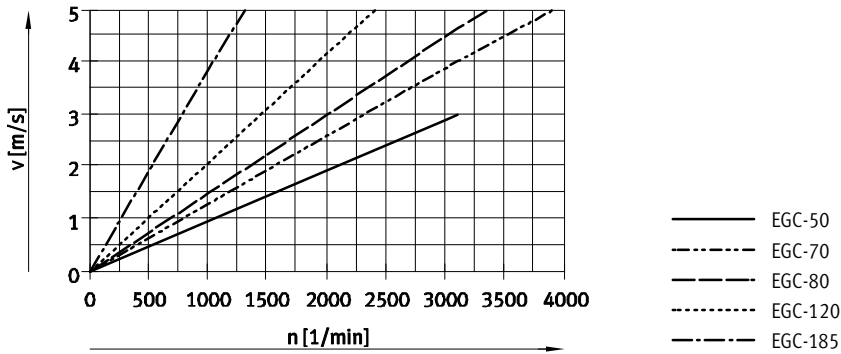


— Horizontal mounting position
 - - - Vertical mounting position

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

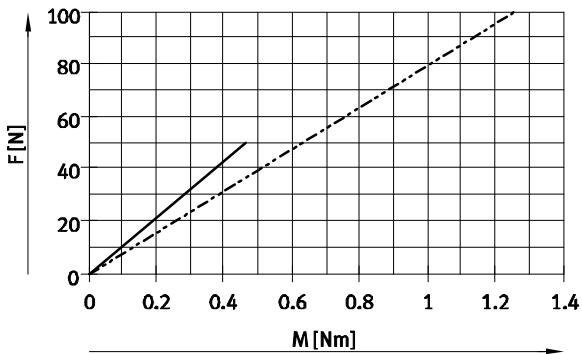
Technical data

Speed v as a function of rotational speed n

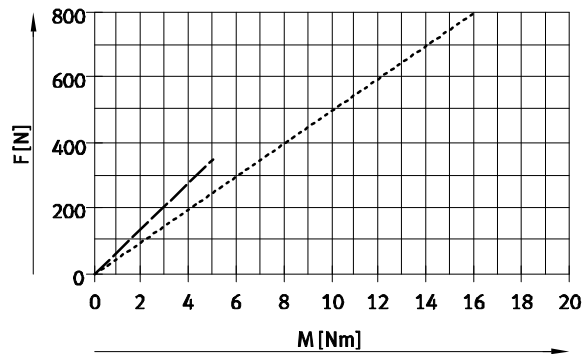


Theoretical feed force F as a function of input torque M

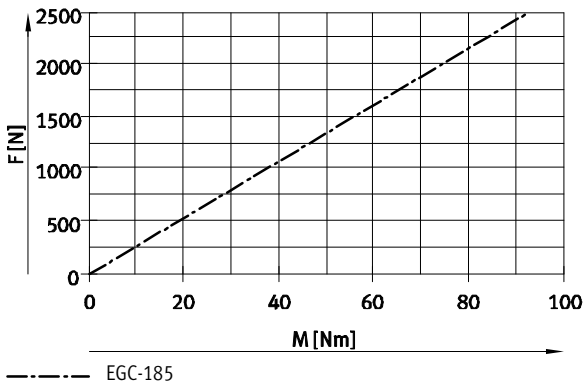
EGC-50/-70



EGC-80/-120



EGC-185



Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Technical data

Stroke reserve

| Stroke length | Stroke reserve | | |
|---|--|---|--|
| The selected stroke corresponds in principle to the required working stroke. The variants GK/GV do not have a wiper seal on the guide. These variants therefore additionally have a safety distance between the drive cap and slide that is not designated as part of the working stroke. | A safety distance (similar to GK/GV) between the drive cap and slide can be defined for the variants GP/GQ and GK-C/GV-C using the modular product system via the "stroke reserve" feature. With the variants GK/GV, the stroke reserve and safety distance are added for each end position. | <ul style="list-style-type: none"> The stroke reserve length can be freely selected The sum of the stroke length and 2x stroke reserve must not exceed the maximum working stroke | Example: EGC-70-500-TB-KF-20H-... Working stroke = 500 mm 2x stroke reserve = 40 mm Total stroke = 540 mm (540 mm = 500 mm + 2x 20 mm) |

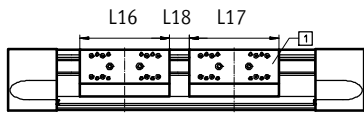
| Size | 50 | 70 | 80 | 120 | 185 |
|---|----|------|----|-----|-----|
| L9 = safety distance with GK/GV (per end position) [mm] | - | 10.5 | 13 | 18 | 21 |

Working stroke reduction

With standard slide GK/GP / extended slide GV/GQ 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 and the distance between both slides
- If the variant GP/GQ is ordered, the additional slide is also protected
- If the variant GV/GQ is ordered, the additional slide is not extended
- If the variant GK-C/GV-C is ordered, the additional slide is also supplied with lubrication adapters

| | | | |
|-------------------------------|--|--|---|
| L16 = Slide length | L18 = Distance between both slides | Example: | |
| L17 = Additional slide length | 1 Additional slide | Type EGC-70-500-TB-...-GK-KR | Working stroke with additional slide = 380 mm |
| | | Working stroke without additional slide = 500 mm | (500 mm - 20 mm - 100 mm) |
| | | L18 = 20 mm | |
| | | L16, L17 = 100 mm | |



Dimensions – Additional slide

| Size | 50 | | 70 | | 80 | | 120 | | 185 | |
|---|-------|-------|-------|-------|--------------------|-------|--------------------|-------|-----------|--|
| | GK/GV | GK/GV | GP/GQ | GK/GV | GP/GQ or GK-C/GV-C | GK/GV | GP/GQ or GK-C/GV-C | GK/GV | GK-C/GV-C | |
| Length L17 [mm] | 65 | 100 | 121 | 120 | 146 | 203.3 | 236 | 282.8 | 322 | |
| Min. distance between the slides L18 [mm] | - | - | 21 | - | 26 | - | 36 | - | 42 | |

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Technical data

Working stroke reduction per side

With integrated emergency buffer NPE/shock absorber YSRW with shock absorber retainer KYE

- The working stroke is reduced by the total dimension of the emergency buffer/shock absorber and shock absorber retainer.
- The rubber buffer in the cap must be removed.
- Shock absorbers must not be used in combination with lubrication adapters.

| Size | 50 | 70 | 80 | 120 | 185 |
|----------------------------|----|----|----|-----|-----|
| With emergency buffer [mm] | 30 | 43 | 68 | 98 | 133 |
| With shock absorber [mm] | 26 | 42 | 63 | 84 | 107 |

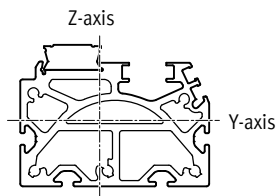
Working stroke reduction

With integrated clamping unit

- The working stroke is reduced by the length of the clamping unit.
- With 1-channel clamping units, the stroke is reduced on one side with respect to the mounting surface.
- With 2-channel clamping units, the stroke is reduced symmetrically with respect to the mounting surface of the load.
- Shock absorbers must not be used in combination with the clamping unit.

| Size | 80 | 120 | 185 |
|-----------------------|-----|-----|-----|
| EGC-...-1H...-PN [mm] | 87 | 124 | 131 |
| EGC-...-2H-PN [mm] | 174 | 248 | 262 |

Second moment of area



| Size | 50 | 70 | 80 | 120 | 185 |
|-----------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| I _y [mm ⁴] | 8.4x10 ⁴ | 3.95x10 ⁵ | 8.44x10 ⁵ | 4.62x10 ⁶ | 2.34x10 ⁷ |
| I _z [mm ⁴] | 1.14x10 ⁵ | 5.77x10 ⁵ | 1.16x10 ⁶ | 5.65x10 ⁶ | 2.74x10 ⁷ |

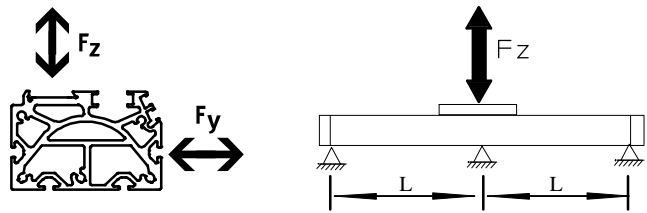
Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Technical data

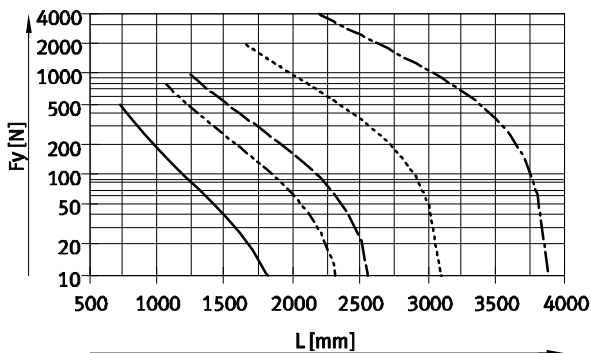
Maximum permissible support span L (without profile mounting MUE/central support EAHF) as a function of force F

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.

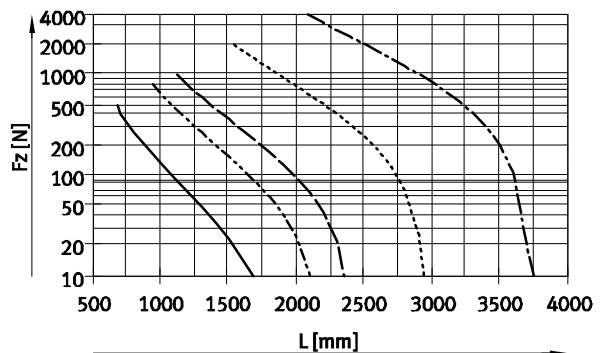


Force F_y



- EGC-50
- EGC-70
- EGC-80
- EGC-120
- EGC-185

Force F_z



Recommended deflection limits

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

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

| Size | Dyn. deflection (load moving) | Stat. deflection (load stationary) |
|------------|---------------------------------------|------------------------------------|
| 50 ... 185 | 0.05% of the axis length, max. 0.5 mm | 0.1% of the axis length |

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Technical data

Central lubrication

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

- For size 80, 120, 185
- The modules are suitable for oils and greases
- The dimensions of the toothed belt axis EGC-TB are the same with and without central lubrication modules
- Both lubrication adapters must be connected
- There are three connection options on each side
- Can be used in combination with:
 - Standard slide GK
 - Additional slide KL, KR
- Cannot be used in combination with:
 - Protected recirculating ball bearing guide GP

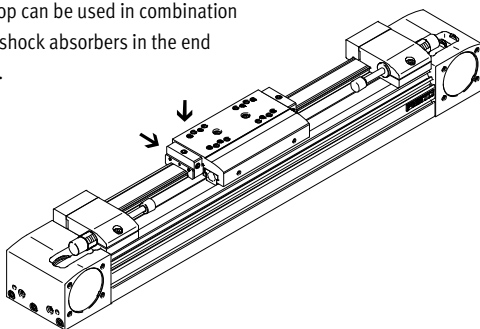
Slide dimensions

→ 31

Order code C in the modular product system → 44

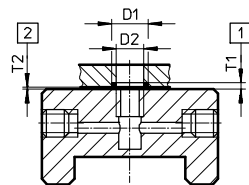
Connection options

Only the connection at the rear or on the top can be used in combination with shock absorbers in the end caps.



Connection option for customer design

The drawing opposite shows the connection option on the top lubrication interface using a customer design.



- D1 8^{+0.2} mm
- D2 6 mm
- T1 0.6–0.05 mm
- T2 0.1^{+0.2} mm
- O-ring ∅ 6x1 mm (DIN3771)

- 1 Slot depth for O-ring
- 2 Required air gap

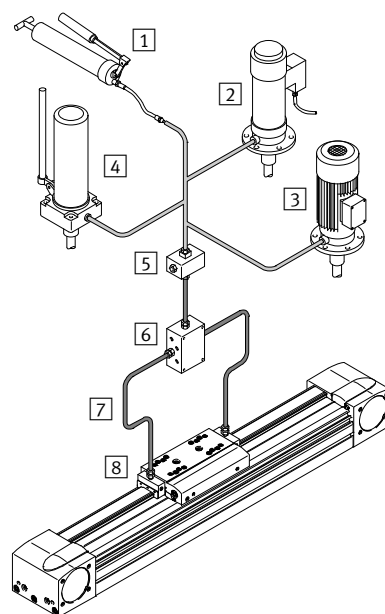
Additional dimensions → 31

Structure 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

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Technical data

Dimensions Download CAD data → www.festo.com

View A (→ 26)

+ = plus stroke length + 2x stroke reserve
 L9 With GK/GV: safety distance per end position
 With GP/GQ: dimension for wiper seal → 20
 With GK-C/GV-C: dimension for adapter → 31

Working stroke reduction in combination with additional slide → 20

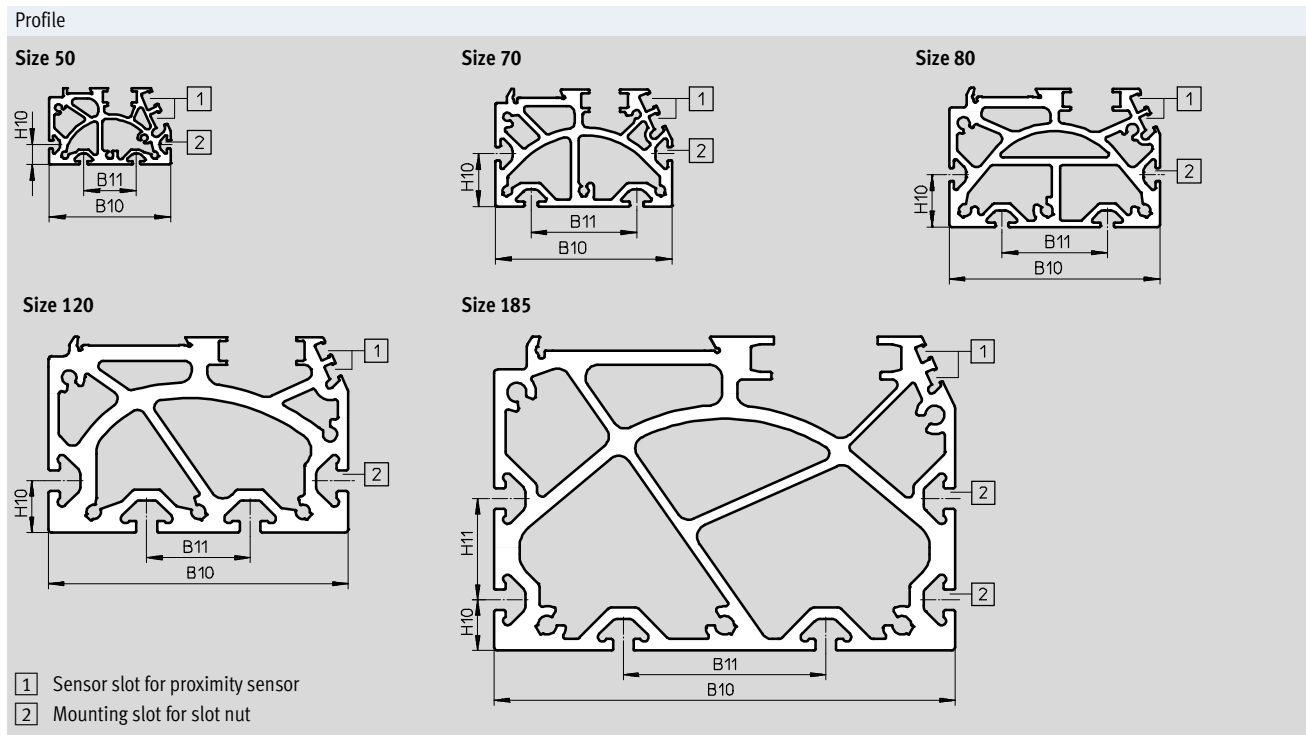
| Size | B1 | B2 | B3 | B4 | B5 | B9 | D1 | D2 | D3 | D4 | D5 | D6 |
|------|-----|------|------|-----|----|----|----|------|------|----|----|-----|
| | | | | | | | H7 | ∅ H7 | ∅ | ∅ | ∅ | M4 |
| 50 | 48 | 39 | 11.5 | 20 | 35 | 1 | 27 | 8 | 20 | 15 | – | M4 |
| 70 | 69 | 58.6 | 16.5 | 30 | 45 | 1 | 38 | 10 | 28 | 20 | – | M5 |
| 80 | 82 | 72.6 | 22 | 40 | 60 | 1 | 48 | 16 | 46.5 | 25 | 9 | M5 |
| 120 | 120 | 107 | 33 | 80 | 40 | 1 | 62 | 23 | 59 | 35 | – | M8 |
| 185 | 186 | 169 | 53 | 120 | 80 | 1 | 95 | 32 | 90 | 60 | – | M10 |

| Size | D7 | D8 ∅ H7 | H1 | H2 | H3 | H4 | H5 | H6 | H7 | L1 | | L2 | |
|------|----|------------|-------|------|-------|------|------|------|----|-----|-----|------|-----|
| | | | | | | | | | | GK | GV | GK | GV |
| 50 | M3 | 5 | 42.5 | 16.5 | 37.6 | 35.5 | 10.5 | 10.5 | 18 | 155 | – | 77.5 | – |
| 70 | M5 | 5 | 64 | 28 | 53.7 | 50.8 | 13 | 13 | 29 | 246 | 346 | 123 | 173 |
| 80 | M5 | 5 | 76.5 | 34.5 | 65 | 61.5 | 17.5 | 15 | 35 | 286 | 386 | 143 | 193 |
| 120 | M6 | 9 | 111.5 | 51.6 | 95.9 | 91.1 | 22 | 22 | 54 | 446 | 546 | 223 | 273 |
| 185 | M8 | 9 | 172.5 | 80.5 | 152.6 | 143 | 25 | 25 | 80 | 612 | 712 | 306 | 356 |

| Size | L3 | L4 | L5 | L6 | L8 | L9 | T1 | T2 | T4 | T6 | T7 | T8 | T9 |
|------|------|----|------|-----|----|------|-----|------|------|-----|----|----|-----|
| 50 | 40 | 26 | 20 | 1.8 | 3 | – | 1.5 | – | 5.9 | – | 7 | 8 | 3.1 |
| 70 | 57.5 | 36 | 27.5 | 1.8 | 3 | 10.5 | 2.1 | 18 | 7.15 | – | 10 | 12 | 3.1 |
| 80 | 65 | 46 | 30 | 2 | 3 | 13 | 2.1 | 27 | 4 | 2.1 | 10 | 10 | 3.1 |
| 120 | 100 | 64 | 50 | 2 | 3 | 18 | 3.1 | 29.5 | 4 | – | 16 | 14 | 2.1 |
| 185 | 140 | 80 | 70 | 2 | 3 | 21 | 2.8 | 34.5 | 4 | – | 20 | 17 | 2.1 |

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Technical data



| Size | B10 | B11 | H10 | H11 |
|------|-----|-----|-----|-----|
| 50 | 46 | 20 | 7.5 | - |
| 70 | 67 | 40 | 20 | - |
| 80 | 80 | 40 | 20 | - |
| 120 | 116 | 40 | 20 | - |
| 185 | 182 | 80 | 20 | 40 |

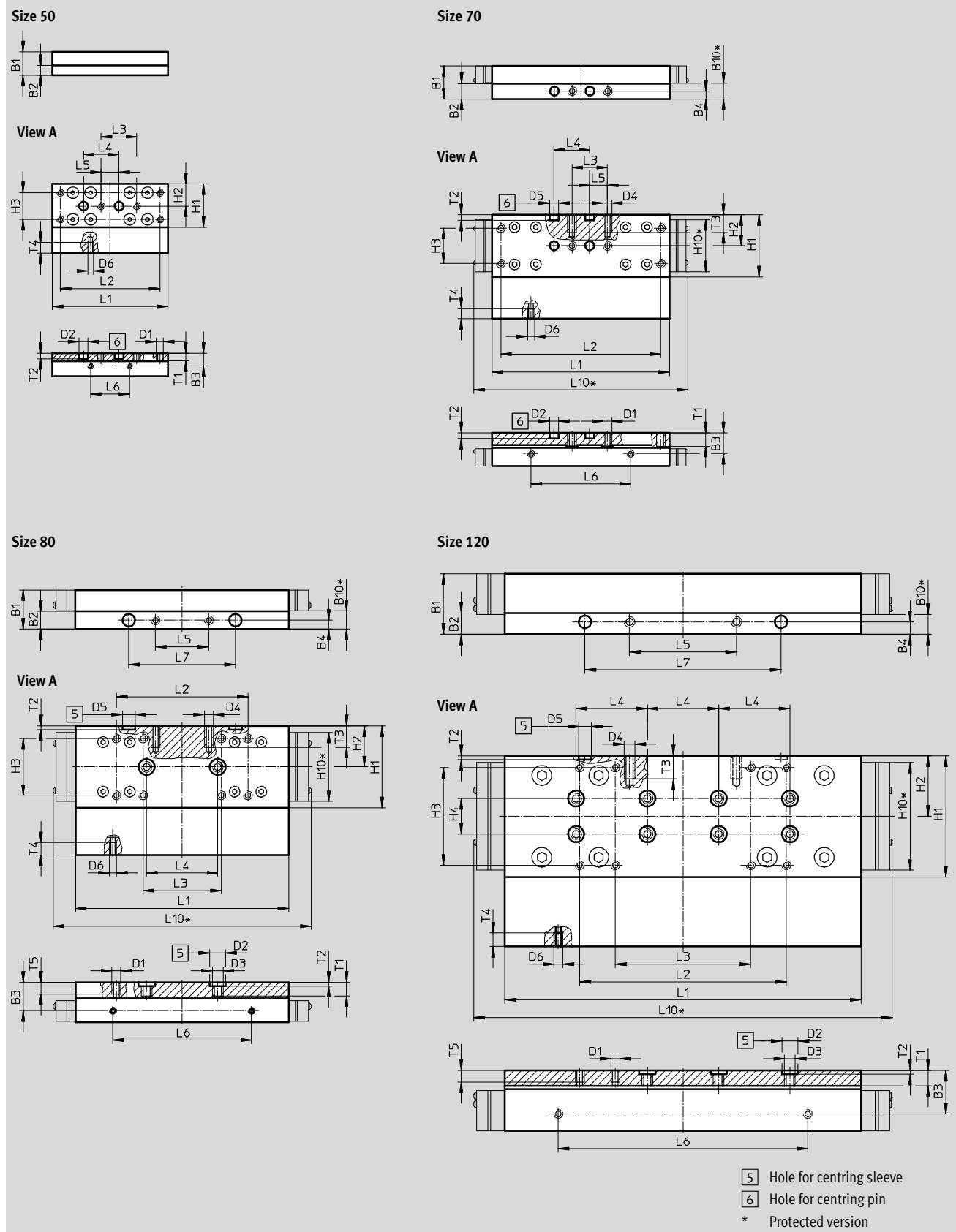
Note
 Flatness of the bearing surface and the attachments. The use in parallel constructions. → www.festo.com

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Technical data

Dimensions Download CAD data → www.festo.com

GK – Standard slide/GP – Standard slide, protected



Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

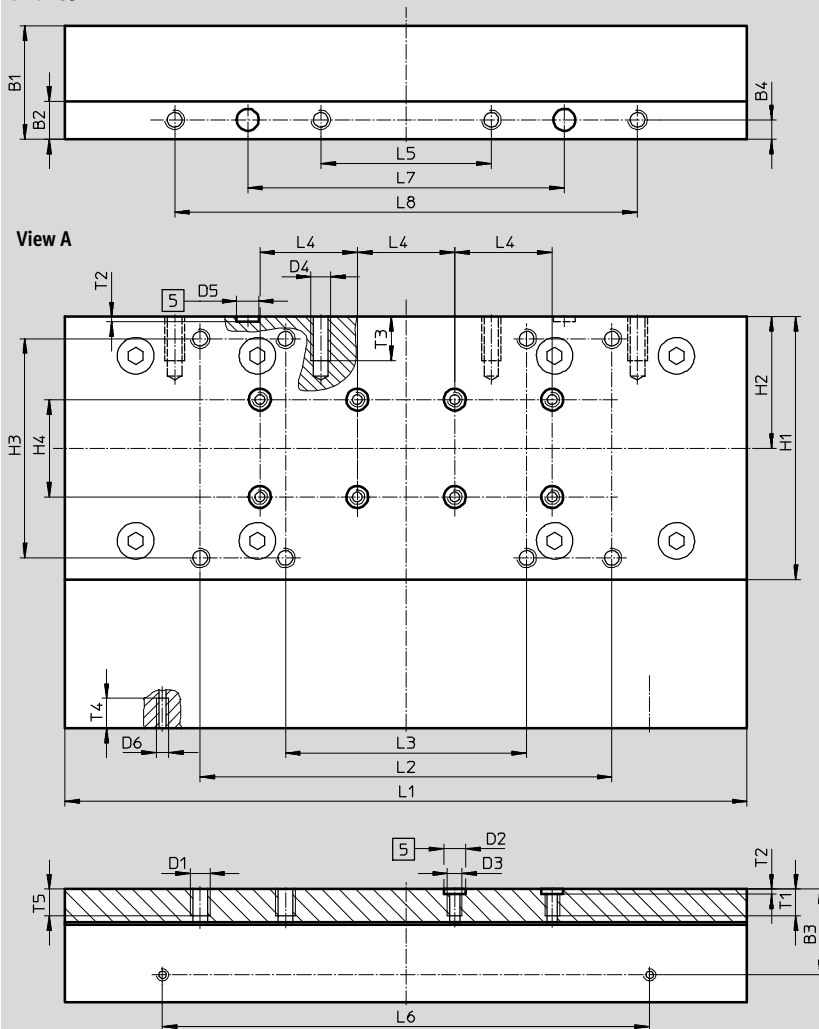
Technical data

Dimensions

Download CAD data → www.festo.com

GK – Standard slide

Size 185



5 Hole for centring sleeve

| Size | B1 | B2 | B3 | B4 | B10* | D1 | D2 ∅ H7 | D3 | D4 | D5 ∅ H7 | D6 | H1 | H2 | H3 | H4 ±0.03 |
|------|------|------|------|-----|------|----|---------------|----|----|---------------|----|------|------|---------|-------------|
| 50 | 13 | 5.5 | 7.2 | – | – | M4 | 5 | – | – | – | M3 | 24.5 | 12.5 | 15 ±0.1 | – |
| 70 | 18.7 | 8.7 | 11.7 | 4.5 | 9 | M5 | 5 | – | M5 | 5 | M4 | 35 | 17.5 | 20 ±0.1 | – |
| 80 | 22 | 10 | 16 | 5 | 10.4 | M5 | 9 | M6 | M5 | 7 | M4 | 46 | 23 | 32 ±0.2 | – |
| 120 | 34 | 12 | 24.5 | 7 | 11.2 | M5 | 9 | M6 | M6 | 7 | M5 | 68 | 34 | 55 ±0.2 | 20 |
| 185 | 46.5 | 15.5 | 35.2 | 8 | – | M8 | 9 | M6 | M8 | 9 | M5 | 108 | 54 | 90 ±0.2 | 40 |

| Size | H10* | L1 ±0.1 | L2 | L3 | L4 ±0.03 | L5 | L6 ±0.1 | L7 ±0.05 | L8 ±0.2 | L10* | T1 | T2 +0.1 | T3 | T4 | T5 |
|------|------|------------|----------|---------|-------------|---------|------------|-------------|------------|------|-----|------------|----|------|-----|
| 50 | – | 65 | 56 ±0.1 | 20 ±0.1 | 20 | 10 ±0.1 | 22 | – | – | – | 4.2 | 3.1 | – | 6 | – |
| 70 | 29.4 | 100 | 90 ±0.1 | 20 ±0.1 | 20 | 10 ±0.1 | 56 | – | – | 121 | 7.5 | 3.1 | 10 | 6 | – |
| 80 | 39 | 120 | 74 ±0.2 | 44 ±0.2 | 40 | 30 ±0.1 | 78 | 60 | – | 145 | 8.6 | 2.1 | 12 | 7 | 7.5 |
| 120 | 60.6 | 203.3 | 116 ±0.2 | 76 ±0.2 | 40 | 60 ±0.1 | 140 | 110 | – | 235 | 8.6 | 2.1 | 13 | 7.5 | 7.5 |
| 185 | – | 282.8 | 169 ±0.2 | 99 ±0.2 | 40 | 70 ±0.2 | 200 | 130 | 190 | – | 11 | 2.1 | 18 | 12.3 | 12 |

* Protected version

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

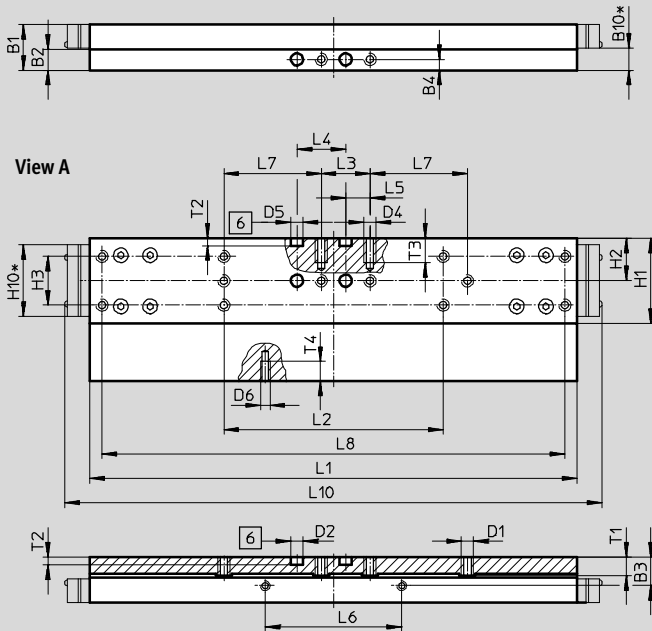
Technical data

Dimensions

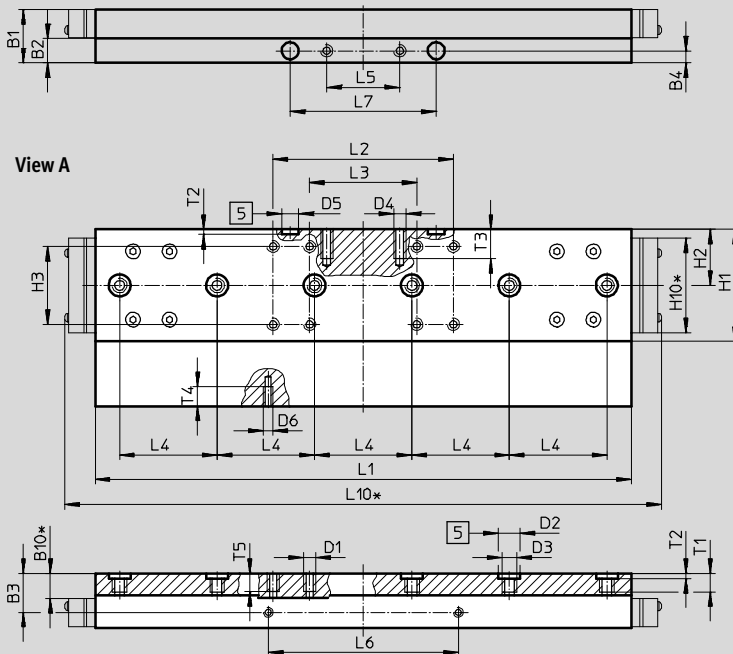
Download CAD data → www.festo.com

GV – Extended slide/GQ – Extended slide, protected

Size 70



Size 80



- 5 Hole for centring sleeve
- 6 Hole for centring pin
- * Protected version

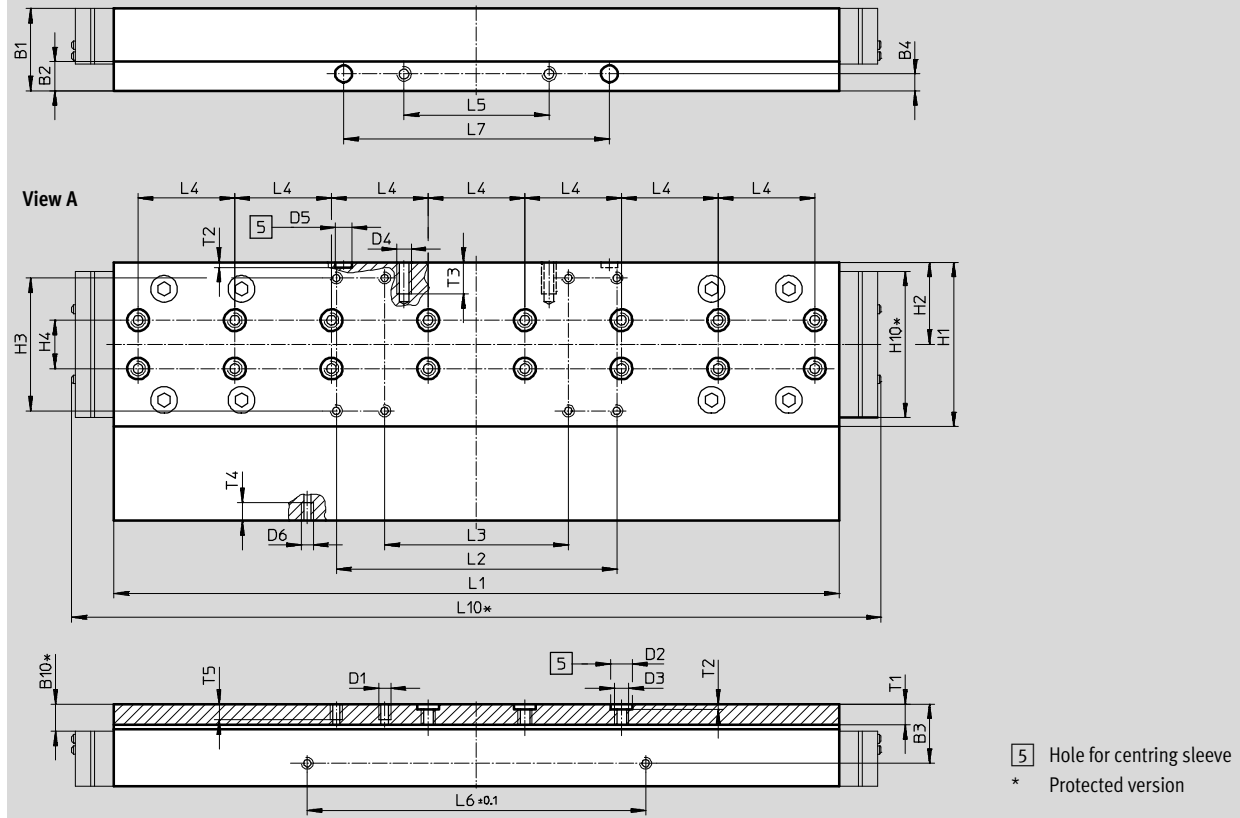
Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Technical data

Dimensions Download CAD data → www.festo.com

GV – Extended slide/GQ – Extended slide, protected

Size 120



| Size | B1 | B2 | B3 | B4 | B10* | D1 | D2 ∅ H7 | D3 | D4 | D5 ∅ H7 |
|------|------|-----|------|-----|------|----|---------------|----|----|---------------|
| 70 | 18.7 | 8.7 | 11.7 | 4.5 | 9 | M5 | 5 | – | M5 | 5 |
| 80 | 22 | 10 | 16 | 5 | 10.4 | M5 | 9 | M6 | M5 | 7 |
| 120 | 34 | 12 | 24.5 | 7 | 11.2 | M5 | 9 | M6 | M6 | 7 |

| Size | D6 | H1 | H2 | H3 | H4 ±0.03 | H10* | L1 ±0.1 | L2 | L3 | L4 ±0.03 |
|------|----|----|------|---------|-------------|------|------------|----------|---------|-------------|
| 70 | M4 | 35 | 17.5 | 20 ±0.1 | – | 29.4 | 200 | 90 ±0.1 | 20 ±0.1 | 20 |
| 80 | M4 | 46 | 23 | 32 ±0.2 | – | 39 | 220 | 74 ±0.2 | 44 ±0.2 | 40 |
| 120 | M5 | 68 | 34 | 55 ±0.2 | 20 | 60.6 | 303.3 | 116 ±0.2 | 76 ±0.2 | 40 |

| Size | L5 ±0.1 | L6 ±0.1 | L7 | L8 ±0.2 | L10* | T1 | T2 +0.1 | T3 | T4 | T5 |
|------|------------|------------|-----------|------------|------|-----|------------|----|-----|-----|
| 70 | 10 | 56 | 40 ±0.1 | 190 | 221 | 7.5 | 3.1 | 10 | 6 | – |
| 80 | 30 | 78 | 60 ±0.05 | – | 245 | 8.6 | 2.1 | 12 | 7 | 7.5 |
| 120 | 60 | 140 | 110 ±0.05 | – | 335 | 8.6 | 2.1 | 13 | 7.5 | 7.5 |

* Protected version

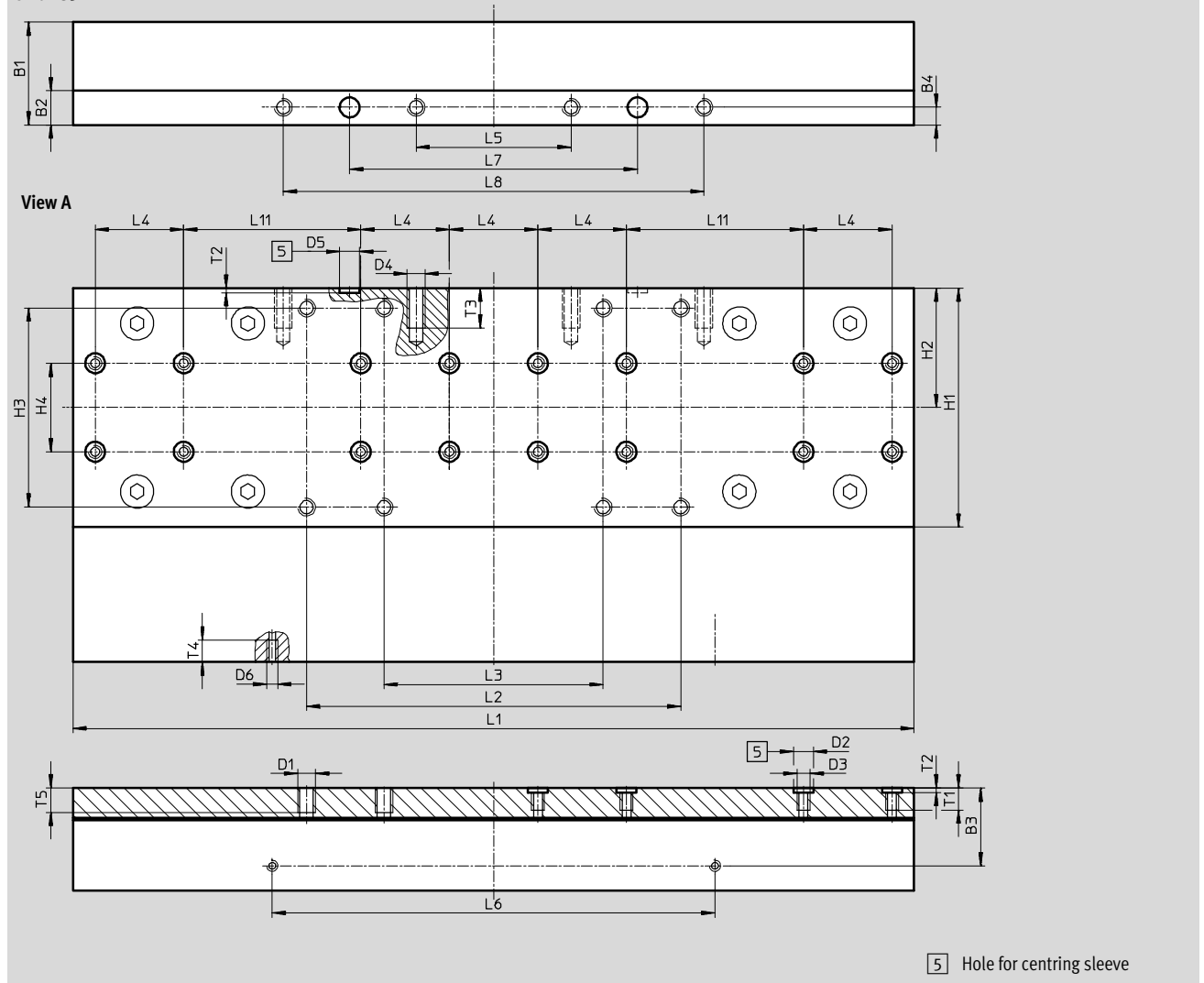
Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Technical data

Dimensions Download CAD data → www.festo.com

GV – Extended slide

Size 185



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

| Size | D6 | H1 | H2 | H3 | H4 | L1 | L2 | L3 | L4 |
|------|----|-----|----|------|-------|-------|------|------|-------|
| | | | | ±0.2 | ±0.03 | ±0.1 | ±0.2 | ±0.2 | ±0.03 |
| 185 | M5 | 108 | 54 | 90 | 40 | 382.8 | 169 | 99 | 40 |

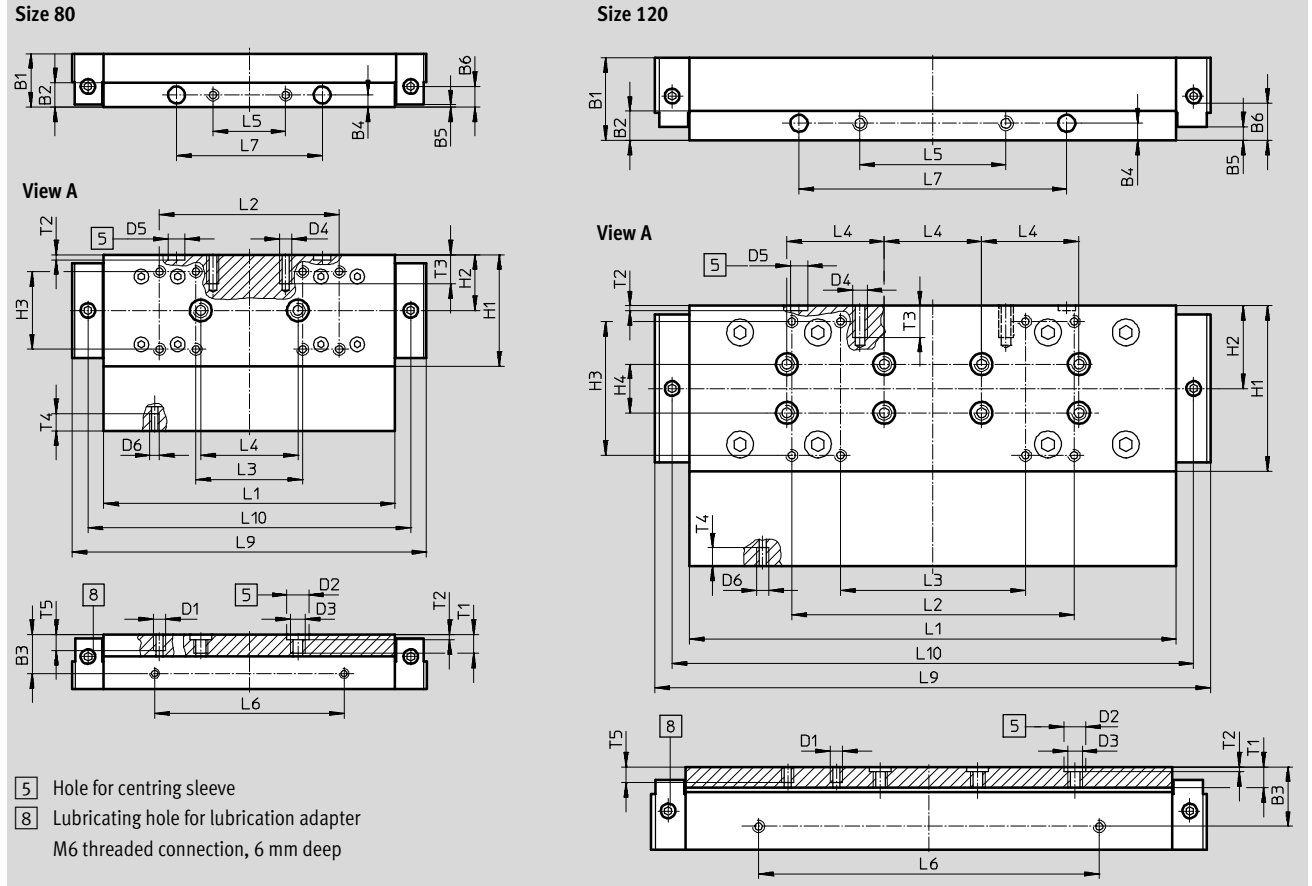
| Size | L5 | L6 | L7 | L8 | L11 | T1 | T2 | T3 | T4 | T5 |
|------|------|------|-------|------|-------|----|------|----|----|----|
| | ±0.2 | ±0.1 | ±0.05 | ±0.2 | ±0.03 | | +0.1 | | | |
| 185 | 70 | 200 | 130 | 190 | 80 | 11 | 2.1 | 18 | 10 | 12 |

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Technical data

Dimensions Download CAD data → www.festo.com

GK-C – Standard slide with lubrication adapter



| Size | B1 | B2 | B3 | B4 | B5 | B6 | D1 | D2 | D3 | D4 |
|------|----|----|------|----|------|------|----|---------|----|----|
| | | | | | ±0.1 | | | ∅ H7 | | |
| 80 | 22 | 10 | 16 | 5 | 1 | 8.5 | M5 | 9 | M6 | M5 |
| 120 | 34 | 12 | 24.5 | 7 | 5.5 | 18.2 | M5 | 9 | M6 | M6 |

| Size | D5 | D6 | H1 | H2 | H3 | H4 | L1 | L2 | L3 | L4 |
|------|---------|----|----|----|------|-------|-------|------|------|-------|
| | ∅ H7 | | | | ±0.2 | ±0.03 | ±0.1 | ±0.2 | ±0.2 | ±0.03 |
| 80 | 7 | M4 | 46 | 23 | 32 | – | 120 | 74 | 44 | 40 |
| 120 | 7 | M5 | 68 | 34 | 55 | 20 | 203.3 | 116 | 76 | 40 |

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

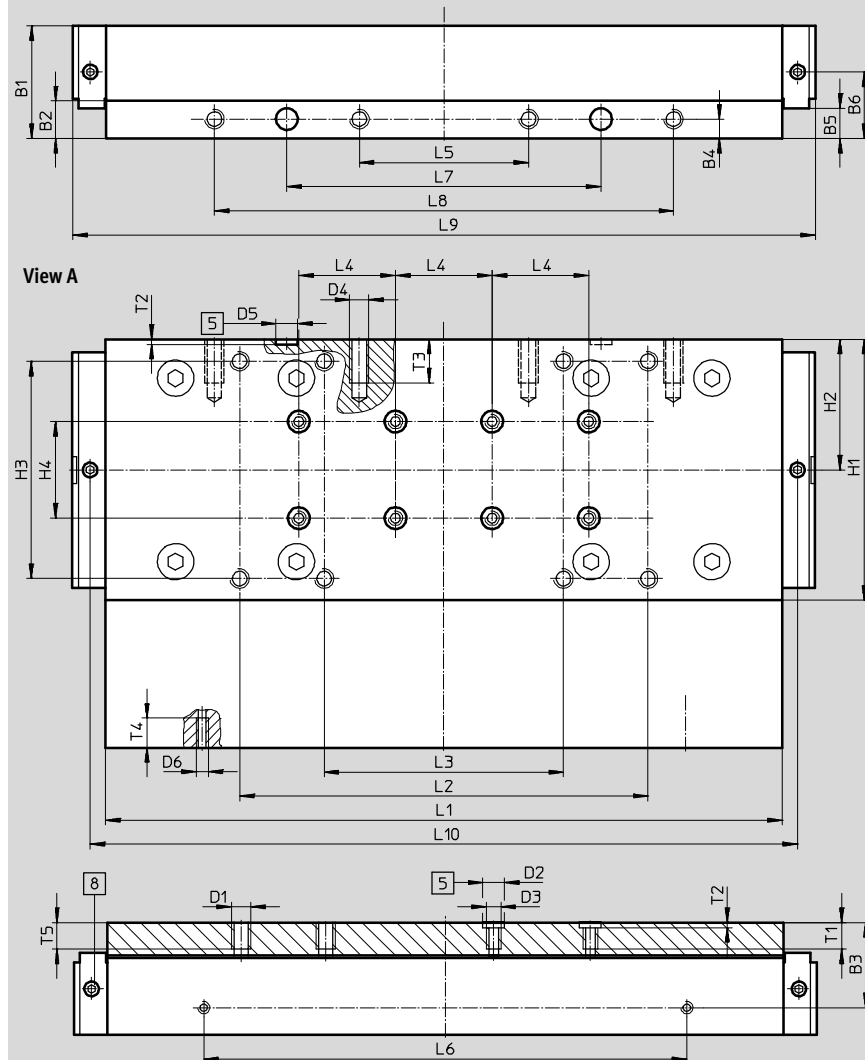
Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Technical data

Dimensions Download CAD data → www.festo.com

GK-C – Standard slide with lubrication adapter

Size 185



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

| Size | B1 | B2 | B3 | B4 | B5 | B6 | D1 | D2 ∅ H7 | D3 | D4 |
|------|------|------|------|----|--------------|------|----|---------------|----|----|
| 185 | 46.5 | 15.5 | 35.2 | 8 | ±0.1 12.5 | 27.5 | M8 | 9 | M6 | M8 |

| Size | D5 ∅ H7 | D6 | H1 | H2 | H3 | H4 | L1 | L2 | L3 | L4 |
|------|---------------|----|-----|----|------------|-------------|---------------|-------------|------------|-------------|
| 185 | 9 | M5 | 108 | 54 | ±0.2 90 | ±0.03 40 | ±0.1 282.8 | ±0.2 169 | ±0.2 99 | ±0.03 40 |

| Size | L5 | L6 | L7 | L8 | L9 | L10 | T1 | T2 | T3 | T4 | T5 |
|------|------------|-------------|--------------|-------------|-------|-------|----|-------------|----|------|----|
| 185 | ±0.2 70 | ±0.1 200 | ±0.05 130 | ±0.2 190 | 307.4 | 292.8 | 11 | +0.1 2.1 | 18 | 12.3 | 12 |

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

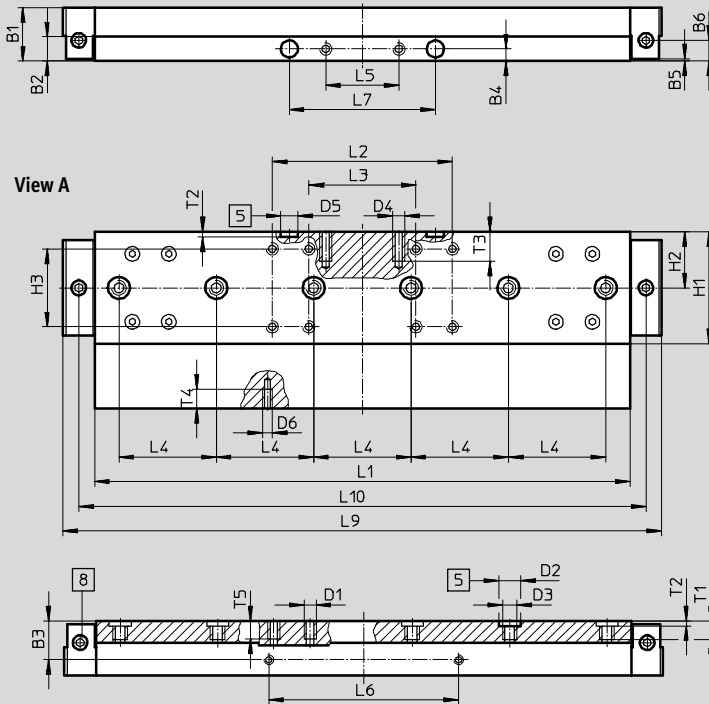
Technical data

Dimensions

Download CAD data → www.festo.com

GV-C – Extended slide with lubrication adapter

Size 80



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

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

| Size | D5 | D6 | H1 | H2 | H3 | L1 | L2 | L3 | L4 | L5 |
|------|-----|----|----|----|------|------|------|------|-------|------|
| 80 | ∅ 7 | M4 | 46 | 23 | ±0.2 | ±0.1 | ±0.2 | ±0.2 | ±0.03 | ±0.1 |

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

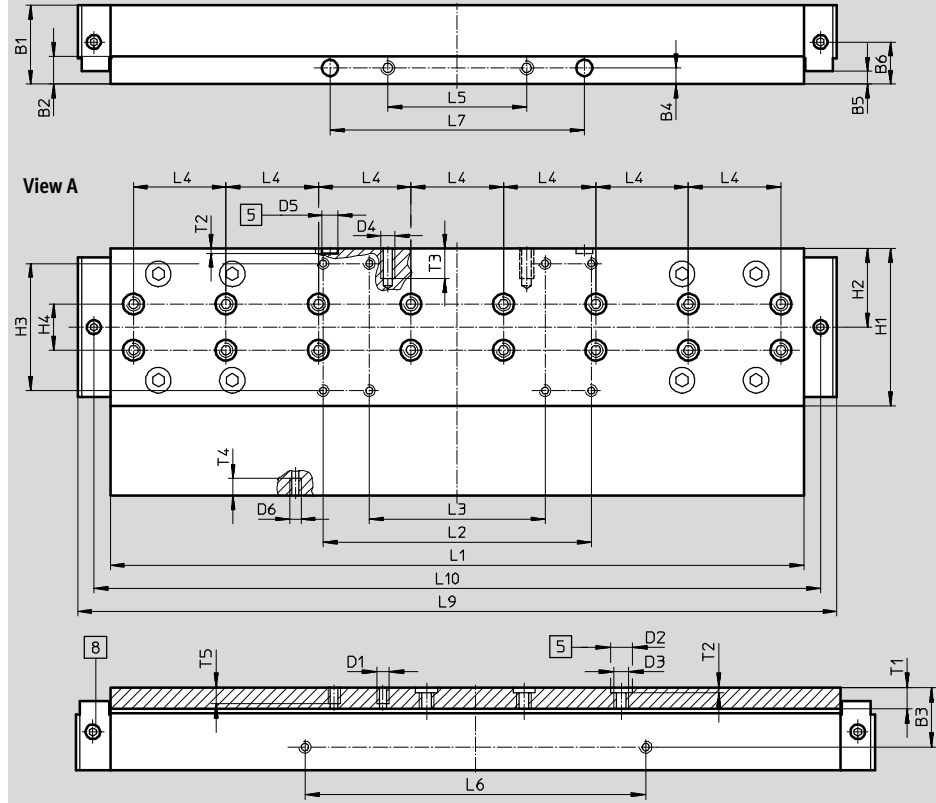
Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Technical data

Dimensions Download CAD data → www.festo.com

GV-C – Extended slide with lubrication adapter

Size 120



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

| Size | B1 | B2 | B3 | B4 | B5 | B6 | D1 | D2 ∅ H7 | D3 | D4 |
|------|----|----|------|----|-------------|------|----|---------------|----|----|
| 120 | 34 | 12 | 24.5 | 7 | ±0.1 5.5 | 18.2 | M5 | 9 | M6 | M6 |

| Size | D5 ∅ H7 | D6 | H1 | H2 | H3 | H4 | L1 | L2 | L3 | L4 |
|------|---------------|----|----|----|------------|-------------|---------------|-------------|------------|-------------|
| 120 | 7 | M5 | 68 | 34 | ±0.2 55 | ±0.03 20 | ±0.1 303.3 | ±0.2 116 | ±0.2 76 | ±0.03 40 |

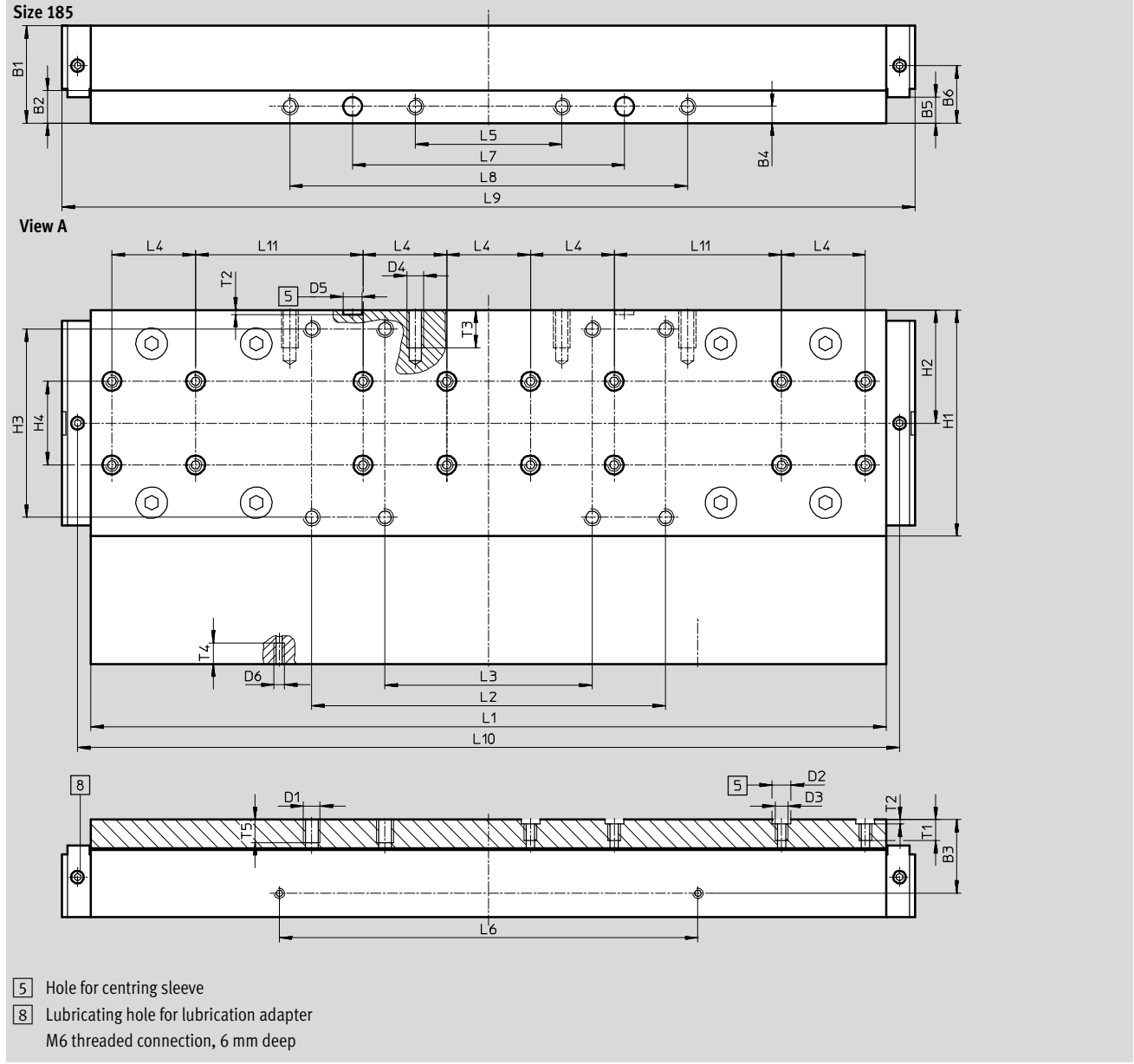
| Size | L5 | L6 | L7 | L9 | L10 | T1 | T2 | T3 | T4 | T5 |
|------|------------|-------------|--------------|-------|-------|-----|-------------|----|-----|-----|
| 120 | ±0.1 60 | ±0.1 140 | ±0.05 110 | 326.9 | 314.3 | 8.6 | ±0.1 2.1 | 13 | 7.5 | 7.5 |

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Technical data

Dimensions Download CAD data → www.festo.com

GV-C – Extended slide with lubrication adapter



| Size | B1 | B2 | B3 | B4 | B5 | B6 | D1 | D2 | D3 | D4 |
|------|------|------|------|----|------|------|----|--------------|----|----|
| 185 | 46.5 | 15.5 | 35.2 | 8 | ±0.1 | 27.5 | M8 | 9 ∅ H7 | M6 | M8 |

| Size | D5 | D6 | H1 | H2 | H3 | H4 | L1 | L2 | L3 | L4 | L5 |
|------|--------------|----|-----|----|------|-------|------|------|------|-------|------|
| 185 | 9 ∅ H7 | M5 | 108 | 54 | ±0.2 | ±0.03 | ±0.1 | ±0.2 | ±0.2 | ±0.03 | ±0.2 |

| Size | L6 | L7 | L8 | L9 | L10 | L11 | T1 | T2 | T3 | T4 | T5 |
|------|------|-------|------|-------|-------|-------|----|------|----|----|----|
| 185 | ±0.1 | ±0.05 | ±0.2 | 407.4 | 392.8 | ±0.03 | 11 | +0.1 | 18 | 10 | 12 |

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Technical data

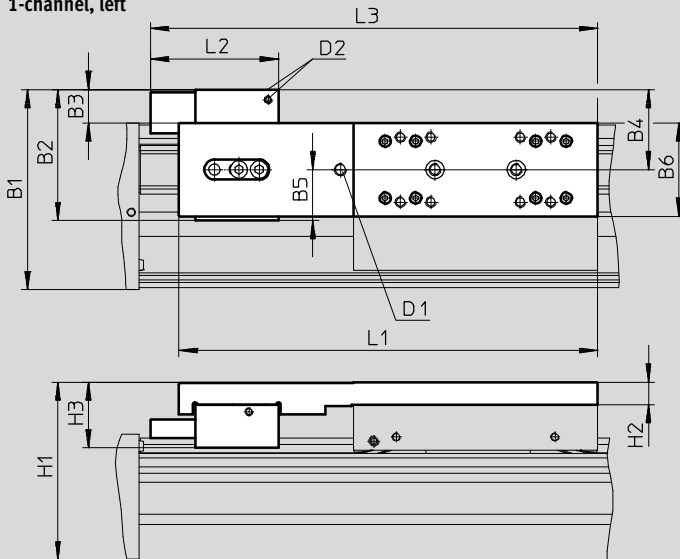
Dimensions

Download CAD data → www.festo.com

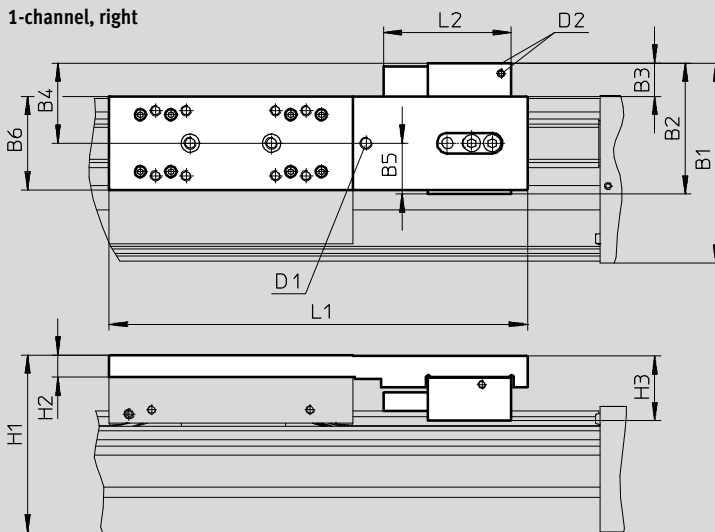
1HL/1HR – With clamping unit

Size 80

1-channel, left



1-channel, right



D2 Compressed air supply

Working stroke reduction in combination with additional slide → 21

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Technical data

Dimensions Download CAD data → www.festo.com

2H – With clamping unit

Size 80

2-channel

D2 Compressed air supply

Working stroke reduction in combination with additional slide → 21

| Type | B1 | B2 | B3 | B4 | B5 | B6 | H1 | H2 | H3 | D1 | D2 | L1 | L2 | L3 |
|---------------------|------|------|------|------|----|----|------|----|------|----|----|-----|-----|-----|
| EGC-80-...-1HL-PN | 98.4 | 64.4 | 17.4 | 39.4 | 25 | 46 | 87.5 | 11 | 32.4 | M6 | M5 | 206 | 63 | 220 |
| EGC-80-...-1HR-PN | | | | | | | | | | | | | | - |
| EGC-80-...-C-1HL-PN | | | | | | | | | | | | | | 220 |
| EGC-80-...-C-1HR-PN | | | | | | | | | | | | | | - |
| EGC-80-...-2H-PN | | | | | | | | | | | | 292 | 306 | |
| EGC-80-...-C-2H-PN | | | | | | | | | | | | | | |

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Technical data

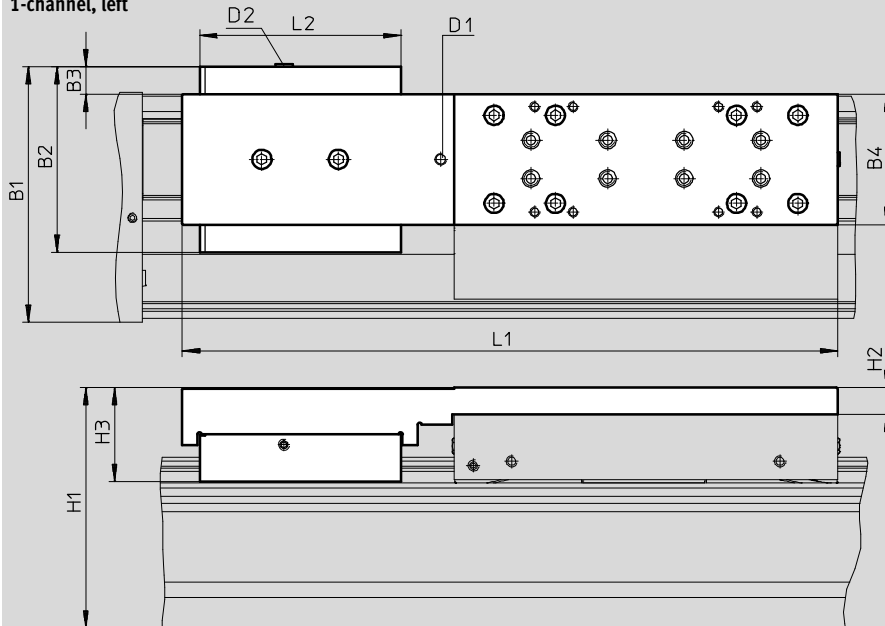
Dimensions

Download CAD data → www.festo.com

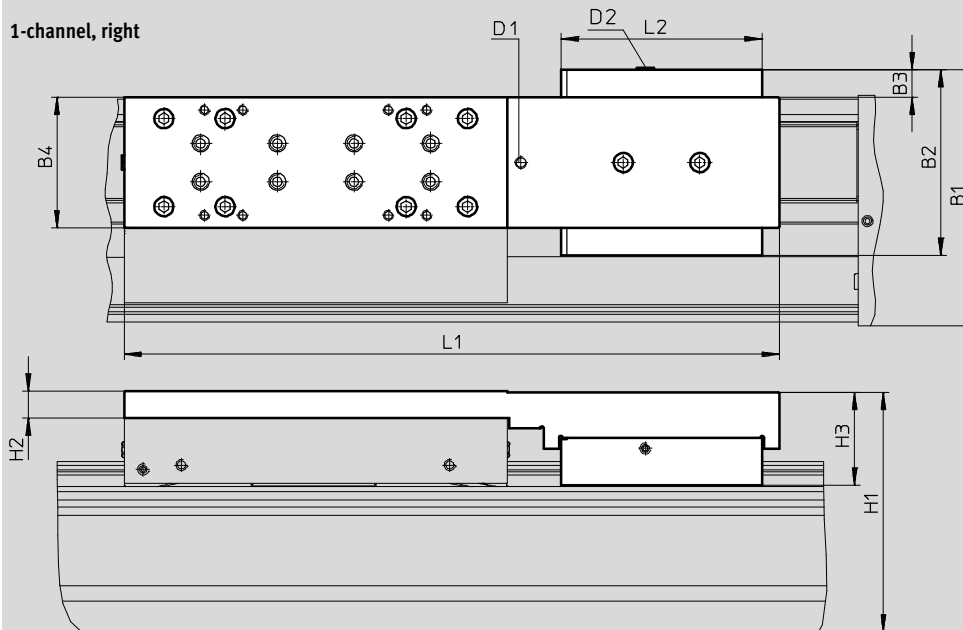
1HL/1HR – With clamping unit

Size 120/185

1-channel, left



1-channel, right



D2 Compressed air supply

Working stroke reduction in combination with additional slide → 21

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Technical data

Dimensions Download CAD data → www.festo.com

2H – With clamping unit

Size 120/185

2-channel

D2 Compressed air supply

Working stroke reduction in combination with additional slide → 21

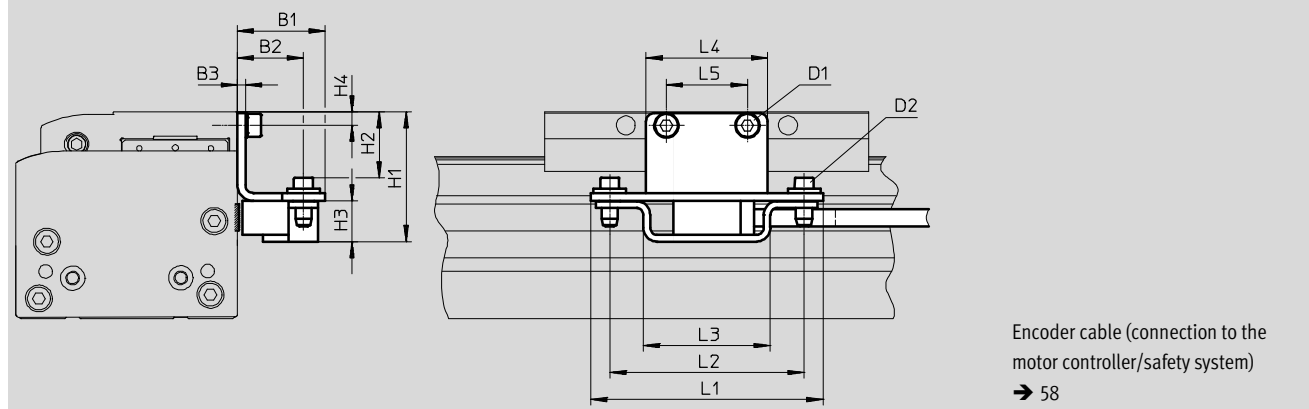
| Type | B1 | B2 | B3 | B4 | H1 | H2 | H3 | D1 | D2 | L1 | L2 |
|----------------------|-------|-----|------|-----|-------|----|------|----|----|-----|-----|
| Size 120 | | | | | | | | | | | |
| EGC-120-...-1HL-PN | 133.5 | 97 | 15.5 | 68 | 125.5 | 14 | 48.9 | M6 | M5 | 342 | 105 |
| EGC-120-...-1HR-PN | | | | | | | | | | | |
| EGC-120-...-C-1HL-PN | | | | | | | | | | | |
| EGC-120-...-C-1HR-PN | | | | | | | | | | | |
| EGC-120-...-2H-PN | | | | | | | | | | 484 | |
| EGC-120-...-C-2H-PN | | | | | | | | | | | |
| Size 185 | | | | | | | | | | | |
| EGC-185-...-1HL-PN | 196.5 | 131 | 12.5 | 108 | 189.5 | 17 | 64.1 | M6 | M5 | 432 | 109 |
| EGC-185-...-1HR-PN | | | | | | | | | | | |
| EGC-185-...-C-1HL-PN | | | | | | | | | | | |
| EGC-185-...-C-1HR-PN | | | | | | | | | | | |
| EGC-185-...-2H-PN | | | | | | | | | | 584 | |
| EGC-185-...-C-2H-PN | | | | | | | | | | | |

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Technical data

Dimensions Download CAD data → www.festo.com

M1/M2 – With incremental displacement encoder



| Type | B1 | B2 | B3 | H1 | H2 | H3 | H4 |
|----------------|------|------|----|------|------|----|-----|
| EGC-70-...-M1 | 32.5 | 24.5 | 3 | 39 | 18.4 | 15 | 4.5 |
| EGC-70-...-M2 | | | | 39 | 18.4 | | 4.5 |
| EGC-80-...-M1 | | | | 48 | 24.4 | | 5 |
| EGC-80-...-M2 | | | | 48 | 24.4 | | 5 |
| EGC-120-...-M1 | | | | 60 | 36.4 | | 7 |
| EGC-120-...-M2 | | | | 60 | 36.4 | | 7 |
| EGC-185-...-M1 | | | | 78.5 | 54.9 | | 8 |
| EGC-185-...-M2 | | | | 78.5 | 54.9 | | 8 |

| Type | D1 | D2 | L1 | L2 | L3 | L4 | L5 |
|----------------|-------|-------|----|----|----|----|----|
| EGC-70-...-M1 | M5x8 | M4x14 | 86 | 72 | 47 | 35 | 20 |
| EGC-70-...-M2 | M5x8 | | | | | 35 | 20 |
| EGC-80-...-M1 | M5x8 | | | | | 45 | 30 |
| EGC-80-...-M2 | M5x8 | | | | | 45 | 30 |
| EGC-120-...-M1 | M6x10 | | | | | 86 | 60 |
| EGC-120-...-M2 | M6x10 | | | | | 86 | 60 |
| EGC-185-...-M1 | M8x12 | | | | | 86 | 70 |
| EGC-185-...-M2 | M8x12 | | | | | 86 | 70 |

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Technical data

Ordering data – Stock items

Features:

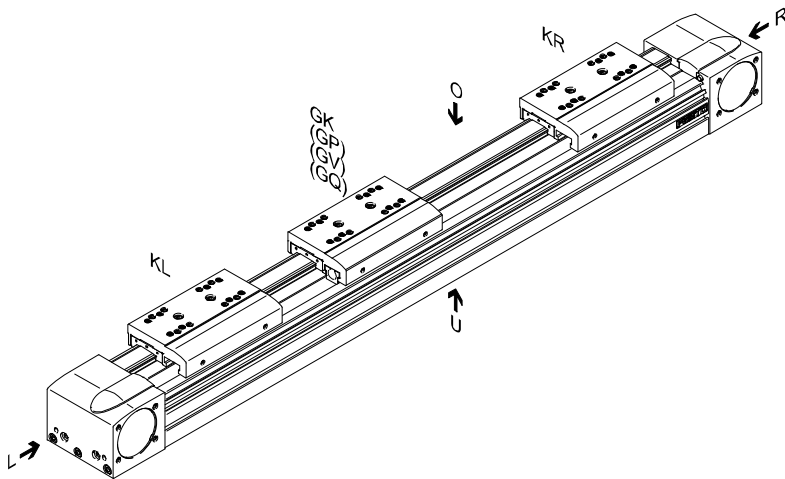
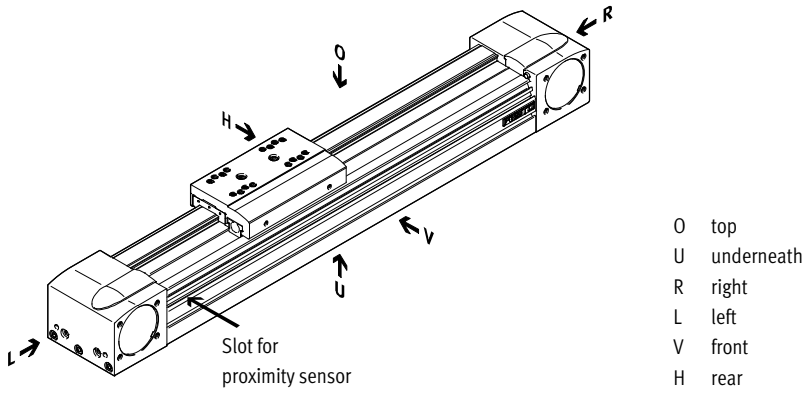
- Stroke reserve: 0 mm
- Standard slide

| Size | Stroke [mm] | Part No. | Type |
|------|-------------|----------|--------------------------|
| 70 | 300 | 3012492 | EGC-70-300-TB-KF-0H-GK |
| | 400 | 3012493 | EGC-70-400-TB-KF-0H-GK |
| | 500 | 3012494 | EGC-70-500-TB-KF-0H-GK |
| | 600 | 3012495 | EGC-70-600-TB-KF-0H-GK |
| | 800 | 3012496 | EGC-70-800-TB-KF-0H-GK |
| | 1000 | 3012497 | EGC-70-1000-TB-KF-0H-GK |
| | 1200 | 3012498 | EGC-70-1200-TB-KF-0H-GK |
| 80 | 400 | 575832 | EGC-80-400-TB-KF-0H-GK |
| | 500 | 3013354 | EGC-80-500-TB-KF-0H-GK |
| | 600 | 3013355 | EGC-80-600-TB-KF-0H-GK |
| | 800 | 3013356 | EGC-80-800-TB-KF-0H-GK |
| | 1000 | 3013357 | EGC-80-1000-TB-KF-0H-GK |
| | 1200 | 3013359 | EGC-80-1200-TB-KF-0H-GK |
| 120 | 400 | 3013364 | EGC-120-400-TB-KF-0H-GK |
| | 500 | 3013365 | EGC-120-500-TB-KF-0H-GK |
| | 600 | 3013366 | EGC-120-600-TB-KF-0H-GK |
| | 800 | 3013367 | EGC-120-800-TB-KF-0H-GK |
| | 1000 | 3013368 | EGC-120-1000-TB-KF-0H-GK |
| | 1200 | 3013369 | EGC-120-1200-TB-KF-0H-GK |
| | 1500 | 3013370 | EGC-120-1500-TB-KF-0H-GK |

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Ordering data – Modular products

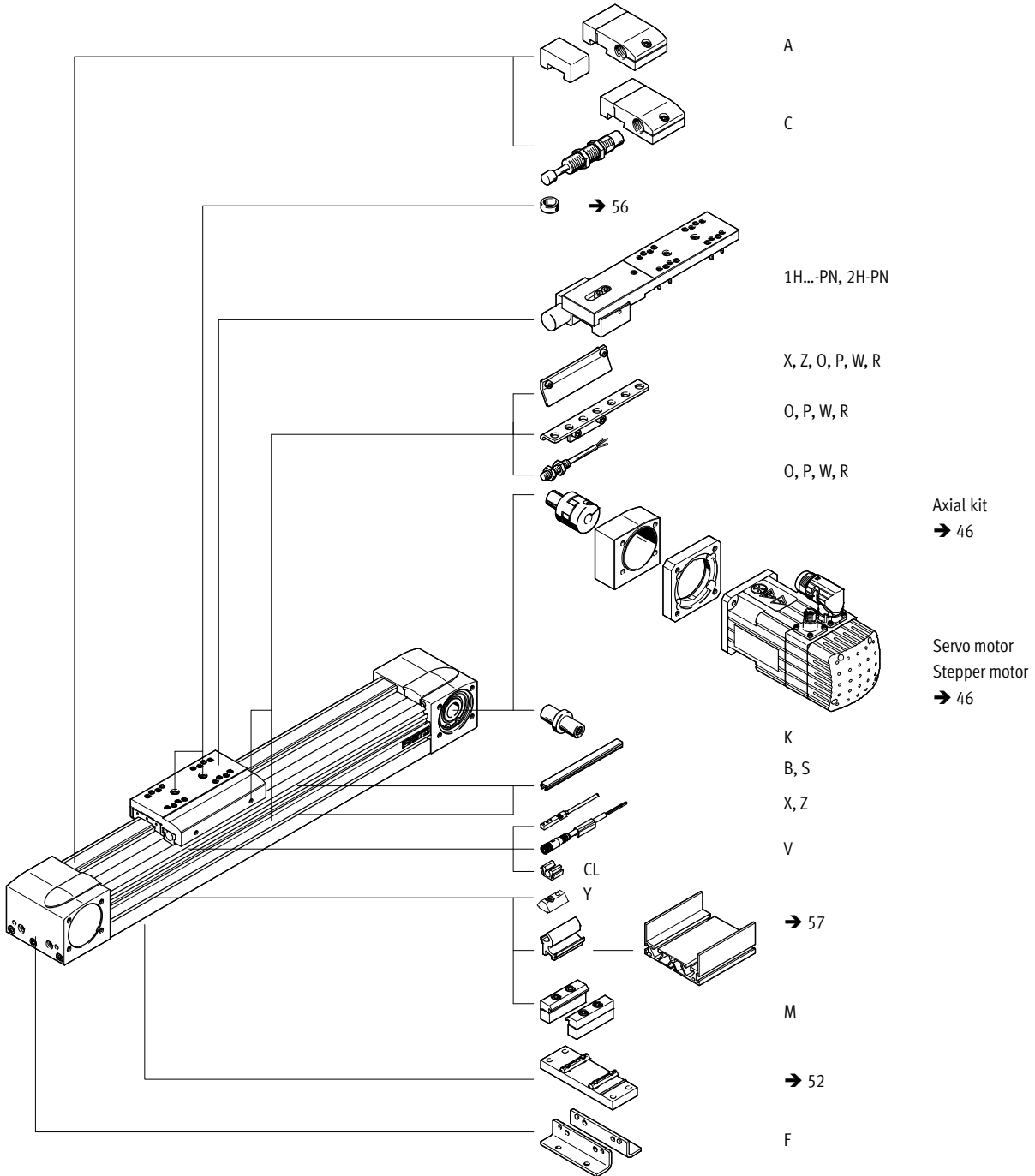
Order code
Mandatory data



Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Ordering data – Modular products

Order code
Accessories



Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Ordering data – Modular products

| Ordering table | | | | | | | | |
|-----------------------------------|-----------------------------------|--------------------------------------|---------------|---|---|-----------------|--------------|---------------|
| Size | 50 | 70 | 80 | 120 | 185 | Condi- tions | Code | Enter code |
| M Module No. | 556812 | 556813 | 556814 | 556815 | 556817 | | | |
| Design | Linear axis | | | | | | EGC | EGC |
| Size | 50 | 70 | 80 | 120 | 185 | | -... | -... |
| Stroke length [mm] | 50 ... 1900 | 50 ... 5000 | 50 ... 8500 | 50 ... 8500 (50 ... 8400 with GV, GQ) | 50 ... 8500 (50 ... 8400 with GV, GQ) | 1 | -... | -... |
| Function | Toothed belt | | | | | | -TB | -TB |
| Guide | Recirculating ball bearing guide | | | | | | -KF | -KF |
| Stroke reserve [mm] | 0 ... 999 (0 = no stroke reserve) | | | | | 1 | -...H | |
| Slide | Standard slide | | | | | | -GK | |
| | - | Extended slide, protected | | | - | | -GQ | |
| | - | Standard slide, protected | | | - | | -GP | |
| | - | Extended slide | | | - | | -GV | |
| O Additional slide | Left | Additional slide, standard, on left | | | | 2 | -KL | |
| O Additional slide | Right | Additional slide, standard, on right | | | | 2 | -KR | |
| Lubrication function | Standard | | | | | | | |
| | - | Lubrication adapter | | | - | | -C | |
| Displacement encoder, incremental | - | Resolution: 2.5 µm | | | - | | -M1 | |
| | - | Resolution: 10 µm | | | - | | -M2 | |
| Clamping unit | - | 1-channel, left | | | - | 3 | -1HL | |
| | - | 1-channel, right | | | - | 3 | -1HR | |
| | - | 2-channel | | | - | 3 | -2H | |
| Actuation type | - | Pneumatic | | | - | | -PN | |

- 1** -... The sum of the stroke length and 2x stroke reserve must not exceed the maximum stroke length
- 2** **KL, KR** If the protected slide variant (GQ, GP) is selected, then the additional slide (KL, KR) is also protected
If the extended slide variant (GQ, GV) is selected, then the additional slide (KL, KR) is not extended
If the slide with lubrication adapter (GK-C) is selected, the additional slide (KL, KR) is also supplied with lubrication adapter
Working stroke reduction in combination with additional slide (KL, KR) → 20
- 3** **1HL, 1HR, 2H** Not with slide GQ, GV as well as additional slide KL, KR
Only with PN
Working stroke reduction in combination with clamping unit (1HL, 1HR, 2H) → 21

- M** Mandatory data
- O** Options

Order code


EGC - - - **TB** - **KF** - - - - - - - - - -

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Ordering data – Modular products

| Ordering table | | | | | | | | | |
|---|--|--------------------------------|----|-----|---------|--------------------------------|-------|------|---------------|
| Size | 50 | 70 | 80 | 120 | 185 | Condi- tions | Code | | Enter code |
| ↓ Accessories | Accessories enclosed separately | | | | | | ZUB- | | ZUB- |
| ⓪ Foot mounting | 1 | | | | | | F | | |
| Profile mounting | 1 ... 50 | | | | | | ...M | | |
| Cover | Mounting slot | – | | | | 1 ... 50 (1 = 2 units, 500 mm) | | ...B | |
| | Sensor slot | 1 ... 50 (1 = 2 units, 500 mm) | | | | | ...S | | |
| Slot nut for mounting slot | 1 ... 99 | | | | | | ...Y | | |
| Proximity sensor (SIES), N/O contact, 7.5 m cable inductive, slot type 8, PNP, incl. switch lug | 1 ... 6 | | | | | | ...X | | |
| | N/C contact, 7.5 m cable | | | | | 1 ... 6 | | ...Z | |
| Emergency buffer with retainer | – | | | | 1 ... 2 | 4 | ...A | | |
| Shock absorber with retainer | 1 ... 2 | | | | | 5 | ...C | | |
| Proximity sensor (SIEN), inductive, M8, PNP, incl. switch lug | N/O contact, 2.5 m cable | | – | | | 1 ... 99 | | ...O | |
| | N/C contact, 2.5 m cable | | – | | | 1 ... 99 | | ...P | |
| with sensor bracket | N/O contact, plug M8 | | – | | | 1 ... 99 | | ...W | |
| | N/C contact, plug M8 | | – | | | 1 ... 99 | | ...R | |
| Connecting cable 2.5 m, M8, 3-wire | 1 ... 99 | | | | | | ...V | | |
| Drive shaft | 1 ... 4 | | | | | 6 | ...K | | |
| Cable clip | 10, 20, 30, 40, 50, 60, 70, 80, 90 | | | | | | ...CL | | |
| Operating instructions | Express waiver - no operating instructions to be included (already available) (operating instructions in pdf format are available free of charge on the Internet at www.festo.com) | | | | | | -DN | | |

- 4 ...A Emergency buffer with retainer A cannot be combined with slide GP, GQ, GK-C, GV-C, shock absorber with retainer C and clamping unit 1H...-PN, 2H-PN
- 5 ...C Shock absorber with retainer C cannot be combined with slide GP, GQ, GK-C, GV-C, emergency buffer with retainer A and clamping unit 1H...-PN, 2H-PN
- 6 ...K No drive shaft is required for the axis/motor combinations → from 46.

 Note

The code X, Z includes a switch lug in the scope of delivery.

The code O, P, W, R includes one switch lug and max. two sensor brackets in the scope of delivery.


- M Mandatory data
- O Options

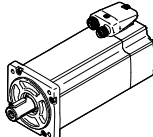
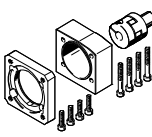
Transfer order code

ZUB - -

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Accessories

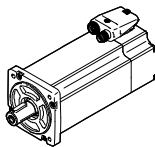
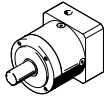
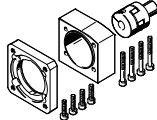
-  - Note
 Depending on the combination of motor and drive, it may not be possible to reach the maximum feed force of the drive.

| Permissible axis/motor combinations with axial kit – Without gear unit | | | Technical data → Internet: eamm-a |
|---|--|---------------------------|-----------------------------------|
| Motor ¹⁾ | Axial kit | | |
|  |  | | |
| Type | Part No. | Type | |
| EGC-50 | | | |
| With servo motor | | | |
| EMMS-AS-55-... | 557975 | EAMM-A-L27-55A | |
| With stepper motor | | | |
| EMMS-ST-57-... | 560678 | EAMM-A-L27-57A | |
| With integrated drive | | | |
| EMCA-EC-67-... | 1454261 | EAMM-A-L27-67A | |
| EGC-70 | | | |
| With servo motor | | | |
| EMMS-AS-55-... | 3683331 | EAMM-A-L38-55A | |
| EMME-AS-60-... | 2037246 | EAMM-A-L38-60P | |
| EMMS-AS-70-... | 557979 | EAMM-A-L38-70A | |
| With stepper motor | | | |
| EMMS-ST-57-... | 560679 | EAMM-A-L38-57A | |
| EMMS-ST-87-... | 560680 | EAMM-A-L38-87A | |
| EGC-80 | | | |
| With servo motor | | | |
| EMMS-AS-70-... | 557982 | EAMM-A-L48-70A | |
| EMME-AS-80-... | 2042616 | EAMM-A-L48-80P | |
| EMME-AS-100-... | 557984 | EAMM-A-L48-100A | |
| EMMS-AS-100-... | 557984 | EAMM-A-L48-100A | |
| With stepper motor | | | |
| EMMS-ST-87-... | 560683 | EAMM-A-L48-87A | |
| EGC-120 | | | |
| With servo motor | | | |
| EMME-AS-100-... | 557988 | EAMM-A-L62-100A | |
| EMMS-AS-100-... | 557988 | EAMM-A-L62-100A | |
| EMMS-AS-140-... | 557990 | EAMM-A-L62-140A | |
| EGC-185 | | | |
| With servo motor | | | |
| EMMS-AS-140-... | 3657226 | EAMM-A-L95-140A-G2 | |
| EMMS-AS-190-... | 3659562 | EAMM-A-L95-190A-G2 | |

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

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Accessories

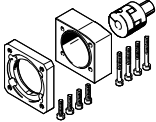

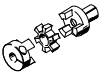


| Permissible axis/motor combinations with axial kit – With gear unit | | Technical data → Internet: eamm-a | |
|---|---|---|--------------------|
| Motor ¹⁾ | Gear unit | Axial kit | |
|  |  |  | |
| Type | Type | Part No. | Type |
| EGC-50 | | | |
| With servo motor | | | |
| EMME-AS-40-... | EMGA-40-P-G...-EAS-40 | 557974 | EAMM-A-L27-40G |
| EMMS-AS-40-... | EMGA-40-P-G...-SAS-40 | 557974 | EAMM-A-L27-40G |
| With stepper motor | | | |
| EMMS-ST-42-... | EMGA-40-P-G...-SST-42 | 557974 | EAMM-A-L27-40G |
| With integrated drive | | | |
| EMCA-EC-67-... | EMGC-40-... | 557974 | EAMM-A-L27-40G |
| EGC-70 | | | |
| With servo motor | | | |
| EMMS-AS-55-... | EMGA-60-P-G...-SAS-55 | 557978 | EAMM-A-L38-60G |
| EMME-AS-60-... | EMGA-60-P-G...-EAS-60 | 1456610 | EAMM-A-L38-60H |
| EMMS-AS-70-... | EMGA-60-P-G...-SAS-70 | 557978 | EAMM-A-L38-60G |
| With stepper motor | | | |
| EMMS-ST-57-... | EMGA-60-P-G...-SST-57 | 557978 | EAMM-A-L38-60G |
| With integrated drive | | | |
| EMCA-EC-67-... | EMGC-60-... | 1456610 | EAMM-A-L38-60H |
| EGC-80 | | | |
| With servo motor | | | |
| EMMS-AS-55-... | EMGA-60-P-G...-SAS-55 | 557983 | EAMM-A-L48-60G |
| EMME-AS-60-... | EMGA-60-P-G...-EAS-60 | 1456611 | EAMM-A-L48-60H |
| EMMS-AS-70-... | EMGA-60-P-G...-SAS-70 | 557983 | EAMM-A-L48-60G |
| With stepper motor | | | |
| EMMS-ST-57-... | EMGA-60-P-G...-SST-57 | 557983 | EAMM-A-L48-60G |
| EGC-120 | | | |
| With servo motor | | | |
| EMMS-AS-70-... | EMGA-80-P-G...-SAS-70 | 557989 | EAMM-A-L62-80G |
| EMME-AS-80-... | EMGA-80-P-G...-EAS-80 | 557989 | EAMM-A-L62-80G |
| EMMS-AS-100-... | EMGA-80-P-G...-SAS-100 | 557989 | EAMM-A-L62-80G |
| EMMS-AS-100-... | EMGA-80-P-G...-SAS-100 | 557989 | EAMM-A-L62-80G |
| With stepper motor | | | |
| EMMS-ST-87-... | EMGA-80-P-G...-SST-87 | 557989 | EAMM-A-L62-80G |
| EGC-185 | | | |
| With servo motor | | | |
| EMMS-AS-70-... | EMGA-80-P-G...-SAS-70 | 3660191 | EAMM-A-L95-80G-G2 |
| EMME-AS-80-... | EMGA-80-P-G...-EAS-80 | 3660191 | EAMM-A-L95-80G-G2 |
| EMMS-AS-100-... | EMGA-80-P-G...-SAS-100 | 3660191 | EAMM-A-L95-80G-G2 |
| EMMS-AS-100-... | EMGA-120-P-G...-SAS-100 | 3659941 | EAMM-A-L95-120G-G2 |
| EMMS-AS-140-... | EMGA-120-P-G...-SAS-140 | 3659941 | EAMM-A-L95-120G-G2 |

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

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

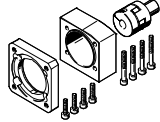




FESTO

Accessories

| Component parts of the axial kit – Without gear unit | | | | |
|---|---|---|---|---|
| Axial kit | Comprises: | | | |
| | Motor flange | Coupling | Coupling housing | Screw set |
|  |  |  |  |  |
| Part No. Type | Part No. Type | Part No. Type | Part No. Type | Part No. Type |
| EGC-50 | | | | |
| 557975 EAMM-A-L27-55A | 558016 EAMF-A-L27-55A | 557999 EAMD-19-15-9-8X10 | – | – |
| 560678 EAMM-A-L27-57A | 560690 EAMF-A-L27-57A | 561292 EAMD-16-15-6,35-8X10 | – | – |
| 1454261 EAMM-A-L27-67A | 1460087 EAMF-A-L27-67A | 557999 EAMD-19-15-9-8X10 | – | – |
| EGC-70 | | | | |
| 3683331 EAMM-A-L38-55A | 558176 EAMF-A-38A-55A | 3717923 EAMD-25-22-9-10X12 | 558011 EAMK-A-L38-38A | 567484 EAHM-L2-M5-30 |
| 2037246 EAMM-A-L38-60P | 1987412 EAMF-A-38A-60P | 1453861 EAMD-28-22-14-10X12 | 558011 EAMK-A-L38-38A | 567485 EAHM-L2-M5-35 |
| 557979 EAMM-A-L38-70A | 558018 EAMF-A-38A-70A | 558000 EAMD-25-22-11-10X12 | 558011 EAMK-A-L38-38A | 567484 EAHM-L2-M5-30 |
| 560679 EAMM-A-L38-57A | 560692 EAMF-A-38A-57A | 561293 EAMD-25-22-6,35-10X12 | 558011 EAMK-A-L38-38A | 567484 EAHM-L2-M5-30 |
| 560680 EAMM-A-L38-87A | 560693 EAMF-A-38A-87A | 558000 EAMD-25-22-11-10X12 | 558011 EAMK-A-L38-38A | 567485 EAHM-L2-M5-35 |
| EGC-80 | | | | |
| 2042616 EAMM-A-L48-80P | 2043427 EAMF-A-48A-80P | 558002 EAMD-42-40-19-16X25 | 558012 EAMK-A-L48-48A | 567489 EAHM-L2-M5-55 |
| 557982 EAMM-A-L48-70A | 558025 EAMF-A-48A-70A | 558001 EAMD-32-32-11-16X20 | 558012 EAMK-A-L48-48A | 567486 EAHM-L2-M5-40 |
| 557984 EAMM-A-L48-100A | 558020 EAMF-A-48A-100A | 558002 EAMD-42-40-19-16X25 | 558012 EAMK-A-L48-48A | 567489 EAHM-L2-M5-55 |
| 560683 EAMM-A-L48-87A | 560695 EAMF-A-48A-87A | 558001 EAMD-32-32-11-16X20 | 558012 EAMK-A-L48-48A | 567487 EAHM-L2-M5-45 |
| EGC-120 | | | | |
| 557988 EAMM-A-L62-100A | 558026 EAMF-A-62A-100A | 558003 EAMD-56-46-19-23X27 | 558013 EAMK-A-L62-62A | 567491 EAHM-L2-M6-65 |
| 557990 EAMM-A-L62-140A | 558022 EAMF-A-62A-140A | 558005 EAMD-56-46-24-23X27 | 558013 EAMK-A-L62-62A | 567493 EAHM-L2-M6-70 |
| EGC-185 | | | | |
| 3657226 EAMM-A-L95-140A-G2 | 558023 EAMF-A-95A-140A | 558008 EAMD-67-51-24-32X32-U | 3712650 EAMK-A-L95-95A/B-G2 | 567497 EAHM-L2-M8-80 |
| 3659562 EAMM-A-L95-190A-G2 | 1378473 EAMF-A-95A-190A | 1379269 EAMD-67-51-32-32X32-U | 3712650 EAMK-A-L95-95A/B-G2 | 567497 EAHM-L2-M8-80 |

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Accessories

| Component parts of the axial kit – With gear unit | | | | |
|---|---|---|---|---|
| Axial kit | Comprises: | | | |
| | Motor flange | Coupling | Coupling housing | Screw set |
|  |  |  |  |  |
| Part No. Type | Part No. Type | Part No. Type | Part No. Type | Part No. Type |
| EGC-50 | | | | |
| 557974 EAMM-A-L27-40G | 558015 EAMF-A-L27-40G | 557998 EAMD-19-15-10-8X10 | – | – |
| EGC-70 | | | | |
| 557978 EAMM-A-L38-60G | 558017 EAMF-A-38A-60G/H | 558000 EAMD-25-22-11-10X12 | 558011 EAMK-A-L38-38A | 567485 EAHM-L2-M5-35 |
| 1456610 EAMM-A-L38-60H | 558017 EAMF-A-38A-60G/H | 1453861 EAMD-28-22-14-10X12 | 558011 EAMK-A-L38-38A | 567485 EAHM-L2-M5-35 |
| EGC-80 | | | | |
| 557983 EAMM-A-L48-60G | 558019 EAMF-A-48A-60G/H | 558001 EAMD-32-32-11-16X20 | 558012 EAMK-A-L48-48A | 567486 EAHM-L2-M5-40 |
| 1456611 EAMM-A-L48-60H | 558019 EAMF-A-48A-60G/H | 1377840 EAMD-32-32-14-16X20 | 558012 EAMK-A-L48-48A | 567486 EAHM-L2-M5-40 |
| EGC-120 | | | | |
| 557989 EAMM-A-L62-80G | 558021 EAMF-A-62A-80G | 558004 EAMD-56-46-20-23X27 | 558013 EAMK-A-L62-62A | 567492 EAHM-L2-M6-65-L |
| EGC-185 | | | | |
| 3660191 EAMM-A-L95-80G-G2 | 3305700 EAMF-A-95B-80G | 3717812 EAMD-67-51-20-32X32-U | 3712650 EAMK-A-L95-95A/B-G2 | – |
| 3659941 EAMM-A-L95-120G-G2 | 3659724 EAMF-A-95A-120G-G2 | 558006 EAMD-67-51-25-32X32-U | 3712650 EAMK-A-L95-95A/B-G2 | 567496 EAHM-L2-M8-70 |

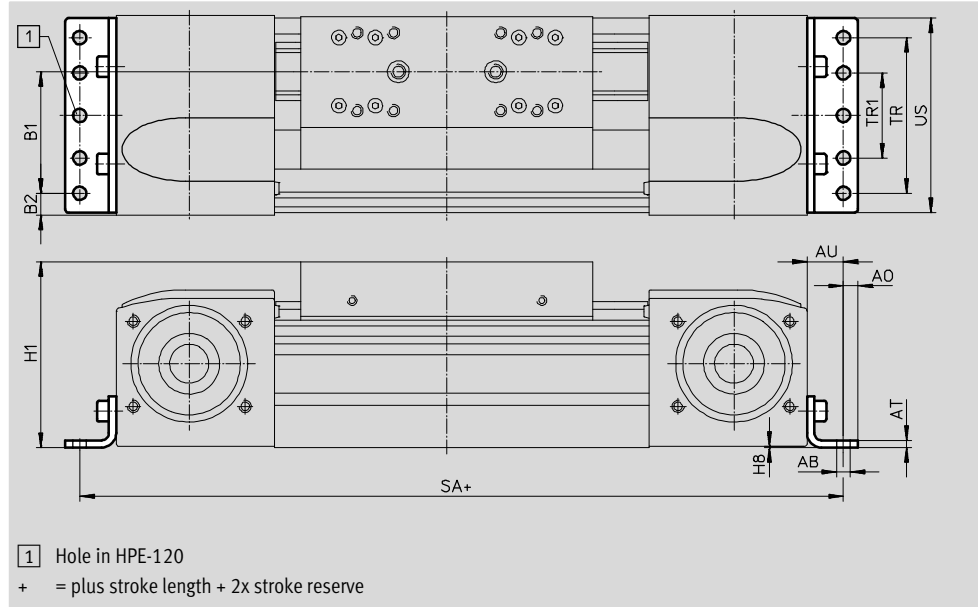
Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide



Accessories

Foot mounting HPE
(order code F)

Materials:
Galvanised steel
RoHS-compliant



| Dimensions and ordering data | | | | | | | | |
|------------------------------|---------|-----|----|------|------|------|-------|-----|
| For size | AB ∅ | A0 | AT | AU | B1 | B2 | H1 | H8 |
| 50 | 4.5 | 4.5 | 2 | 10.5 | 21.5 | 14 | 42.5 | 0.5 |
| 70 | 5.5 | 6 | 3 | 13 | 37 | 14.5 | 64 | 0.5 |
| 80 | 5.5 | 6 | 3 | 15 | 38 | 21 | 76.5 | 0.5 |
| 120 | 9 | 8 | 6 | 22 | 65 | 20 | 111.5 | 0.6 |
| 185 | 9 | 12 | 8 | 25 | 118 | 13 | 172.5 | 0.5 |

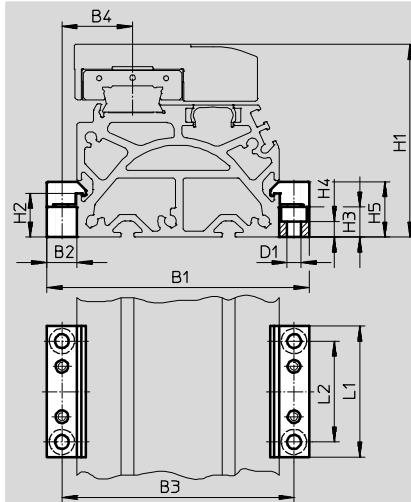
| For size | SA | | TR | TR1 | US | Weight [g] | Part No. | Type |
|----------|------------|------------|-----|-----|-----|---------------|---------------|----------------|
| | EGC-...-GK | EGC-...-GV | | | | | | |
| 50 | 176 | - | 20 | - | 46 | 44 | 558320 | HPE-50 |
| 70 | 272 | 372 | 40 | - | 67 | 115 | 558321 | HPE-70 |
| 80 | 316 | 416 | 40 | - | 80 | 150 | 558322 | HPE-80 |
| 120 | 490 | 590 | 80 | - | 116 | 578 | 558323 | HPE-120 |
| 185 | 662 | 762 | 160 | 80 | 182 | 1438 | 558325 | HPE-185 |

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Accessories

Profile mounting MUE
(order code M)

Materials:
Anodised aluminium
RoHS-compliant



| Dimensions and ordering data | | | | | | | | |
|------------------------------|-----|----|-----|------|---------|-------|------|-----|
| For size | B1 | B2 | B3 | B4 | D1 ∅ | H1 | H2 | H3 |
| 50 | 62 | 8 | 54 | 15.5 | 3.4 | 42.5 | 6 | 5.5 |
| 70 | 91 | 12 | 79 | 22.5 | 5.5 | 64 | 17.5 | 12 |
| 80 | 104 | 12 | 92 | 28 | 5.5 | 76.5 | 17.5 | 12 |
| 120 | 154 | 19 | 135 | 42.5 | 9 | 111.5 | 16 | 14 |
| 185 | 220 | 19 | 201 | 62.5 | 9 | 172.5 | 16 | 14 |

| For size | H4 | H5 | L1 | L2 | Weight [g] | Part No. | Type |
|----------|-----|------|----|----|---------------|----------|-------------|
| 50 | 2.3 | 11 | 40 | 20 | 20 | 558042 | MUE-50 |
| 70 | 6.2 | 22 | 52 | 40 | 80 | 558043 | MUE-70/80 |
| 80 | 6.2 | 22 | 52 | 40 | 80 | 558043 | MUE-70/80 |
| 120 | 5.5 | 29.5 | 90 | 40 | 290 | 558044 | MUE-120/185 |
| 185 | 5.5 | 29.5 | 90 | 40 | 290 | 558044 | MUE-120/185 |

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

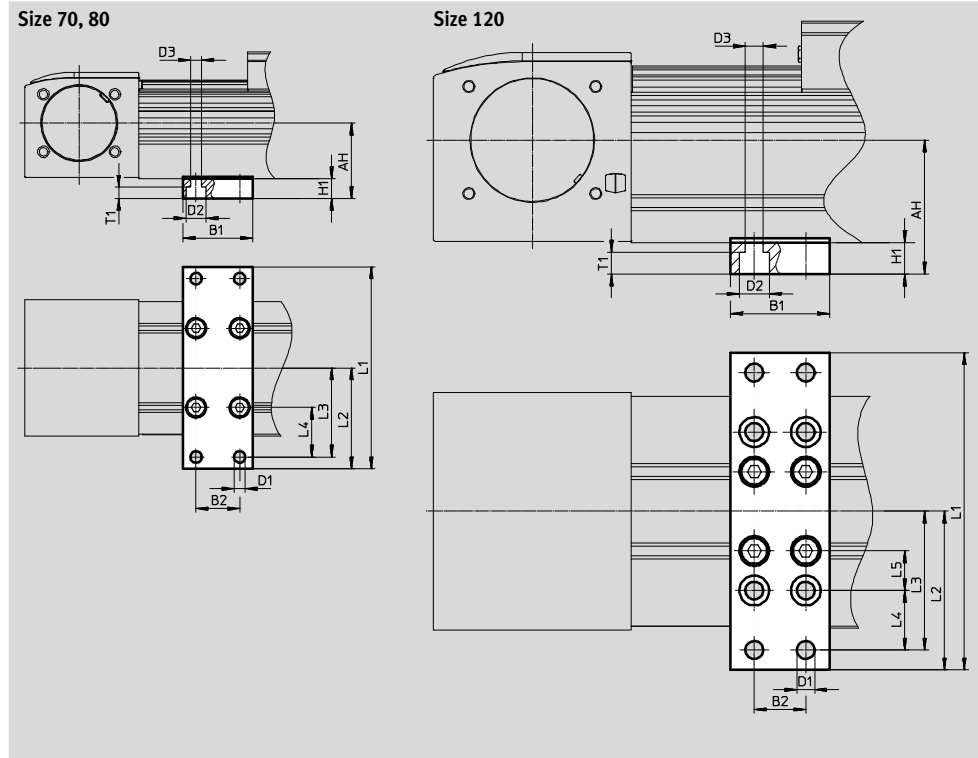
Accessories

Central support EAHF

Materials:

Anodised aluminium

RoHS-compliant



| Dimensions and ordering data | | | | | | | | |
|------------------------------|------|----|----|---------|---------|---------|----|-----|
| For size | AH | B1 | B2 | D1 Ø | D2 Ø | D3 Ø | H1 | L1 |
| 70 | 38 | 35 | 22 | 5.8 | 10 | 5.8 | 10 | 102 |
| 80 | 44.5 | | | | | | | 112 |
| 120 | 67.6 | 50 | 26 | 9 | 15 | 9 | 16 | 160 |

| For size | L2 | L3 | L4 | L5 | T1 | Weight [g] | Part No. | Type |
|----------|----|----|----|----|-----|---------------|----------|---------------|
| 70 | 51 | 45 | 25 | - | 5.7 | 113 | 2349256 | EAHF-L5-70-P |
| 80 | 56 | 50 | 30 | | | 123 | 3535188 | EAHF-L5-80-P |
| 120 | 80 | 70 | 30 | 20 | 11 | 384 | 2410274 | EAHF-L5-120-P |

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Accessories

Shock absorber retainer KYE

Emergency buffer NPE → 56

Shock absorber YSRW → 56

(order code A or C)

Materials:

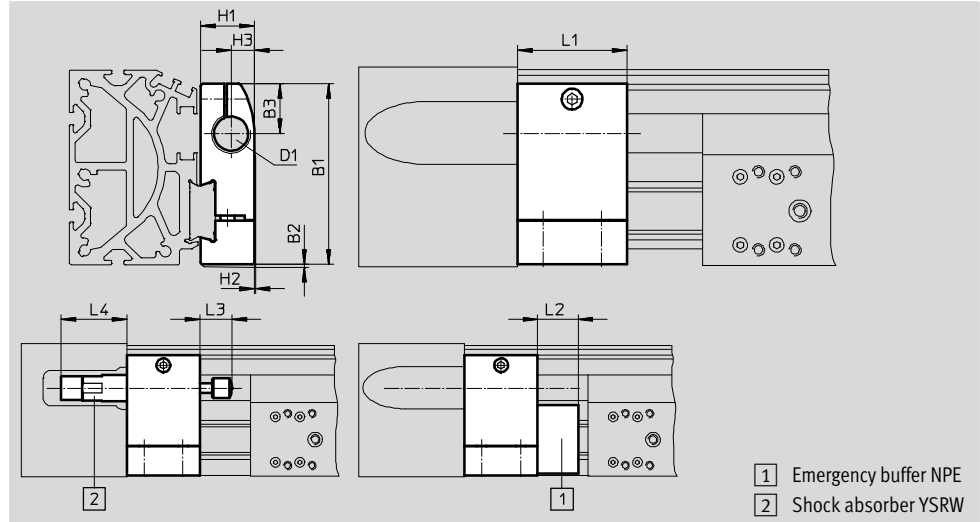
Anodised aluminium

RoHS-compliant

Cannot be used in combination with

the variants GP and GQ or GK-C and

GV-C and 1H...-PN, 2H-PN.



| Dimensions and ordering data | | | | | | | | | | | | | | |
|------------------------------|-------|----|------|---------|------|-----|-----|----|----|----|------|------------|----------|---------|
| For size | B1 | B2 | B3 | D1 | H1 | H2 | H3 | L1 | L2 | L3 | L4 | Weight [g] | Part No. | Type |
| 50 | 38 | 1 | 13.5 | M8x1 | 12 | 0.4 | 5 | 20 | 12 | 8 | 20 | 20 | 557583 | KYE-50 |
| 70 | 57.5 | 1 | 16.5 | M12x1 | 18.2 | 0.5 | 7.5 | 30 | 15 | 14 | 32 | 75 | 557584 | KYE-70 |
| 80 | 74.2 | 1 | 20.5 | M16x1 | 22 | 0.5 | 9.5 | 45 | 25 | 20 | 41 | 170 | 557585 | KYE-80 |
| 120 | 108.5 | 1 | 26 | M22x1.5 | 31 | 1 | 14 | 60 | 40 | 26 | 48.5 | 680 | 557586 | KYE-120 |
| 185 | 168 | 1 | 37 | M26x1.5 | 42 | 4 | 18 | 75 | 60 | 34 | 58.5 | 1075 | 557587 | KYE-185 |

Switch lug SF-EGC-1

For sensing via proximity sensor

SIES-8M

(order code X or Z)

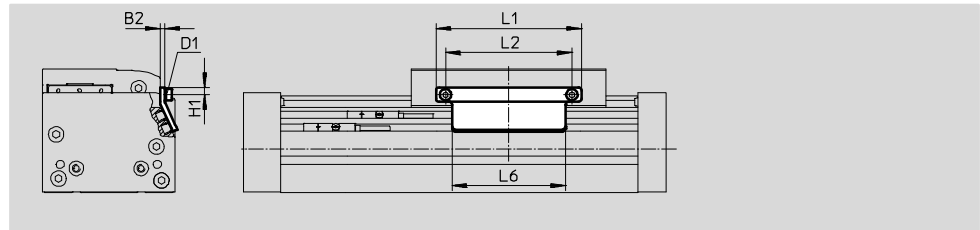
Materials:

Galvanised steel

RoHS-compliant

- With size 50, max. 3 proximity sensors can be supported when sensing both end positions. For

additional proximity sensors, a stroke reserve of 25 mm is required.



| Dimensions and ordering data | | | | | | | | | |
|------------------------------|----|----|------|-----|-----|-----|------------|----------|--------------|
| For size | B2 | D1 | H1 | L1 | L2 | L6 | Weight [g] | Part No. | Type |
| 50 | 2 | M3 | 3.5 | 45 | 22 | 45 | 20 | 558046 | SF-EGC-1-50 |
| 70 | 3 | M4 | 4.65 | 70 | 56 | 50 | 50 | 558047 | SF-EGC-1-70 |
| 80 | 3 | M4 | 4.65 | 90 | 78 | 70 | 63 | 558048 | SF-EGC-1-80 |
| 120 | 3 | M5 | 8 | 170 | 140 | 170 | 147 | 558049 | SF-EGC-1-120 |
| 185 | 3 | M5 | 10 | 230 | 200 | 230 | 246 | 558051 | SF-EGC-1-185 |

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide



Accessories

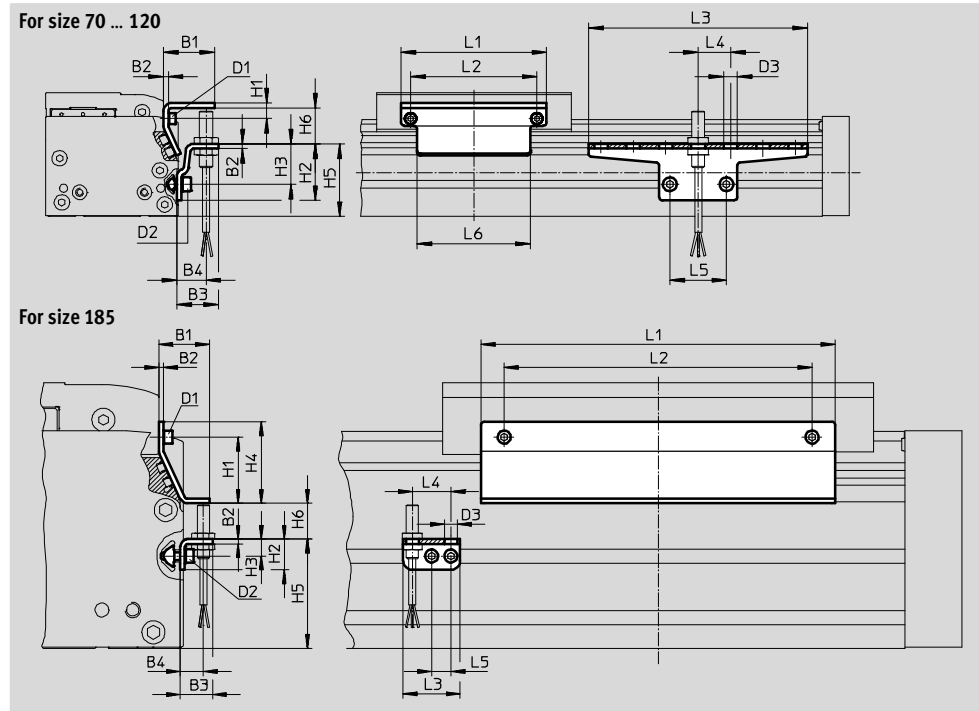
Switch lug SF-EGC-2

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

Materials:
Galvanised steel
RoHS-compliant

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

Materials:
Galvanised steel
RoHS-compliant



| Dimensions and ordering data | | | | | | | | | |
|------------------------------|------|----|------|----|----|----|-----|------|----|
| For size | B1 | B2 | B3 | B4 | D1 | D2 | D3 | H1 | H2 |
| 70 | 31.5 | 3 | 25.5 | 18 | M4 | M5 | 8.4 | 9.5 | 35 |
| 80 | 31.5 | 3 | 25.5 | 18 | M4 | M5 | 8.4 | 9.5 | 35 |
| 120 | 32 | 3 | 25.5 | 18 | M5 | M5 | 8.4 | 13.2 | 65 |
| 185 | 33 | 3 | 25.5 | 15 | M5 | M5 | 8.4 | 43 | 20 |

| For size | H3 | H4 | H5 | H6 Max. | L1 | L2 | L3 | L4 | L5 | L6 |
|----------|----|----|----|------------|-----|-----|-----|----|------|-----|
| 70 | 25 | - | 45 | 13.5 | 70 | 56 | 135 | 20 | 35 | 50 |
| 80 | 25 | - | 45 | 23.5 | 90 | 78 | 135 | 20 | 35 | 70 |
| 120 | 55 | - | 75 | 24 | 170 | 140 | 215 | 20 | 35 | 170 |
| 185 | 11 | 53 | 71 | 25.5 | 230 | 200 | 37 | 25 | 12.5 | 230 |

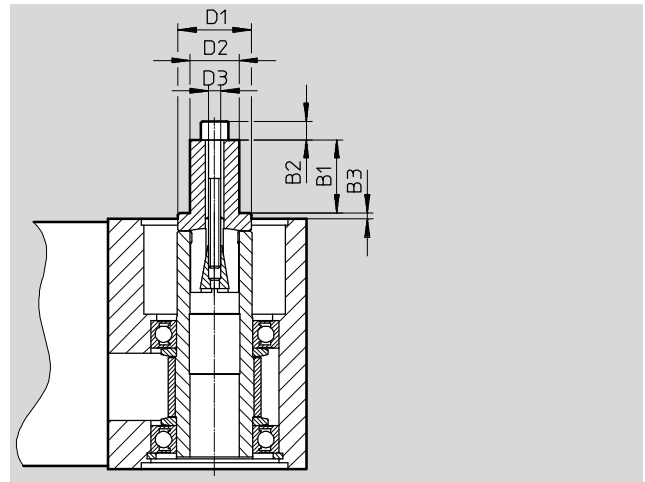
| For size | Weight [g] | Part No. | Type |
|------------|---------------|----------|--------------|
| Switch lug | | | |
| 70 | 100 | 558052 | SF-EGC-2-70 |
| 80 | 130 | 558053 | SF-EGC-2-80 |
| 120 | 277 | 558054 | SF-EGC-2-120 |
| 185 | 390 | 558056 | SF-EGC-2-185 |

| For size | Weight [g] | Part No. | Type |
|----------------|---------------|----------|-----------------|
| Sensor bracket | | | |
| 70 | 110 | 558057 | HWS-EGC-M5 |
| 80 | 110 | 558057 | HWS-EGC-M5 |
| 120 | 217 | 570365 | HWS-EGC-M8-B |
| 185 | 58 | 560517 | HWS-EGC-M8-KURZ |

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Accessories

Drive shaft EAMB
Alternative interface
(order code K)

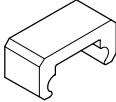
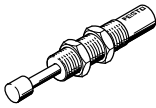




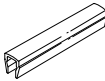
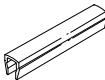



| Dimensions and ordering data | | | | | | | | | |
|------------------------------|----|----|------|---------|---------|-----|---------------|----------|-----------------------|
| For size | B1 | B2 | B3 | D1 ∅ | D2 ∅ | D3 | Weight [g] | Part No. | Type |
| 50 | 12 | 3 | 1.1 | 16 | 8 | M4 | 20 | 558034 | EAMB-16-7-8X15-8X10 |
| 70 | 12 | 4 | 1.85 | 18 | 8 | M5 | 29 | 558035 | EAMB-18-9-8X16-10X12 |
| 80 | 21 | - | 2 | 24 | 15 | M6 | 70 | 558036 | EAMB-24-6-15X21-16X20 |
| 120 | 26 | - | 2 | 34 | 25 | M10 | 201 | 558037 | EAMB-34-6-25X26-23X27 |
| 185 | 30 | - | 3 | 44 | 35 | M10 | 463 | 558038 | EAMB-44-7-35X30-32X32 |

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

FESTO

Accessories

| Ordering data | | | | | | |
|---|--|--|-------------------|----------------|--------------------|------------------|
| | For size | Comment | Order code | Part No. | Type | PU ¹⁾ |
| Emergency buffer NPE | | | | | | |
|  | 50 | For use in combination with shock absorber retainer KYE | A | 564897 | NPE-50 | 1 |
| | 70 | | | 562581 | NPE-70 | |
| | 80 | | | 562582 | NPE-80 | |
| | 120 | | | 562583 | NPE-120 | |
| | 185 | | | 562584 | NPE-185 | |
| Shock absorber YSRW Technical data → Internet: ysrw | | | | | | |
|  | 50 | For use in combination with shock absorber retainer KYE | C | 191192 | YSRW-5-8 | 1 |
| | 70 | | | 191194 | YSRW-8-14 | |
| | 80 | | | 191196 | YSRW-12-20 | |
| | 120 | | | 191197 | YSRW-16-26 | |
| | 185 | | | 191198 | YSRW-20-34 | |
| Slot nut NST | | | | | | |
|  | 50 | For mounting slot | Y | 558045 | NST-3-M3 | 1 |
| |  | 70, 80 | For mounting slot | Y | 150914 | NST-5-M5 |
| 8047843 | | | | | NST-5-M5-10 | 10 |
| 8047878 | | | | | NST-5-M5-50 | 50 |
|  | 120, 185 | For mounting slot | Y | 150915 | NST-8-M6 | 1 |
| | | | | 8047868 | NST-8-M6-10 | 10 |
| | | | | 8047869 | NST-8-M6-50 | 50 |
| Centring pin/sleeve ZBS/ZBH²⁾ | | | | | | |
|  | 50, 70 | For slide | - | 150928 | ZBS-5 | 10 |
| | 80, 120, 185 | | | 150927 | ZBH-9 | |
| Slot cover ABP | | | | | | |
|  | 70, 80 | For mounting slot | B | 151681 | ABP-5 | 2 |
| | 120, 185 | Every 0.5 m | | 151682 | ABP-8 | |
| Slot cover ABP-S | | | | | | |
|  | 50 ... 185 | For sensor slot Every 0.5 m | S | 563360 | ABP-5-S1 | 2 |
| Clip SMBK | | | | | | |
|  | 50 ... 185 | For sensor slot, for attaching the proximity sensor cables | CL | 534254 | SMBK-8 | 10 |

1) Packaging unit quantity

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

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

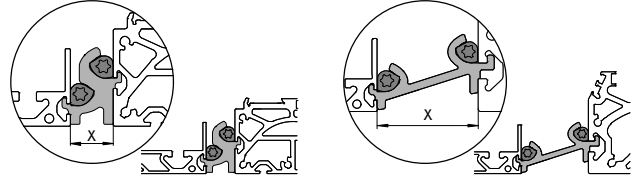
Accessories

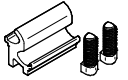
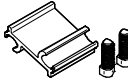
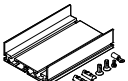
Mounting options between axis and support profile

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

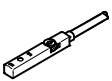
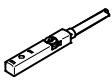
The support profile must be mounted using at least 2 adapter kits. For longer strokes, an adapter kit must be used every 500 mm.

Example:







| Ordering data | | | | | |
|---|------------|---|----------|------------------|------------------|
| | For size | Comment | Part No. | Type | PU ¹⁾ |
| Adapter kit DHAM | | | | | |
|  | 70, 80 | <ul style="list-style-type: none"> For mounting the support profile on the axis Spacing between axis and profile is 20 mm | 562241 | DHAM-ME-N1-CL | 1 |
| | 120, 185 | | 562242 | DHAM-ME-N2-CL | |
|  | 70, 80 | <ul style="list-style-type: none"> For mounting the support profile on the axis Spacing between axis and profile is 50 mm | 574560 | DHAM-ME-N1-50-CL | |
| | 120, 185 | | 574561 | DHAM-ME-N2-50-CL | |
| Support profile HMIA | | | | | |
|  | 70 ... 185 | <ul style="list-style-type: none"> For guiding an energy chain | 539379 | HMIA-E07- | 1 |



1) Packaging unit quantity

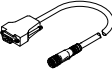
| Ordering data – Proximity sensors for T-slot, inductive | | | | | | | Technical data → Internet: sies | |
|---|--|----------------------------|------------------|------------------|------------|----------|---------------------------------|--|
| | Type of mounting | Electrical connection | Switching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

Toothed belt axes EGC-TB-KF, with recirculating ball bearing guide

Accessories

| Ordering data – Proximity sensor M8 (round design), inductive | | | | | | Technical data → Internet: sien | |
|---|----------------------------|-----|------------------|------------------|------------|---------------------------------|-----------------|
| | Electrical connection | LED | Switching output | Cable length [m] | Order code | Part No. | Type |
| N/O contact | | | | | | | |
|  | Cable, 3-wire | ■ | PNP | 2.5 | O | 150386 | SIEN-M8B-PS-K-L |
|  | Plug connector M8x1, 3-pin | ■ | PNP | – | W | 150387 | SIEN-M8B-PS-S-L |
| N/C contact | | | | | | | |
|  | Cable, 3-wire | ■ | PNP | 2.5 | P | 150390 | SIEN-M8B-PO-K-L |
|  | Plug connector M8x1, 3-pin | ■ | PNP | – | R | 150391 | SIEN-M8B-PO-S-L |

| Ordering data – Connecting cables | | | | Technical data → Internet: nebu | |
|---|------------------------------|------------------------------|------------------|---------------------------------|---------------------|
| | Electrical connection, left | Electrical connection, right | Cable length [m] | Part No. | Type |
|  | Straight socket, M8x1, 3-pin | Cable, open end, 3-wire | 2.5 | 159420 | SIM-M8-3GD-2,5-PU |
| | | | 2.5 | 541333 | NEBU-M8G3-K-2.5-LE3 |
| | | | 5 | 541334 | NEBU-M8G3-K-5-LE3 |
|  | Angled socket, M8x1, 3-pin | Cable, open end, 3-wire | 2.5 | 541338 | NEBU-M8W3-K-2.5-LE3 |
| | | | 5 | 541341 | NEBU-M8W3-K-5-LE3 |

| Ordering data – Encoder cables for displacement encoder EGC-...-M1/-M2 | | | | Technical data → Internet: nebm | |
|---|-------------------------------------|------------------------------|------------------|---------------------------------|--------------------------|
| | Electrical connection, left | Electrical connection, right | Cable length [m] | Part No. | Type |
|  | Displacement encoder EGC-...-M1/-M2 | Motor controller CMMP-AS-... | 5 | 1599105 | NEBM-M12G8-E-5-S1G9-V3 |
| | | | 10 | 1599106 | NEBM-M12G8-E-10-S1G9-V3 |
| | | | 15 | 1599107 | NEBM-M12G8-E-15-S1G9-V3 |
| | | | χ ¹⁾ | 1599108 | NEBM-M12G8-E-...-S1G9-V3 |

1) Max. cable length 25 m.

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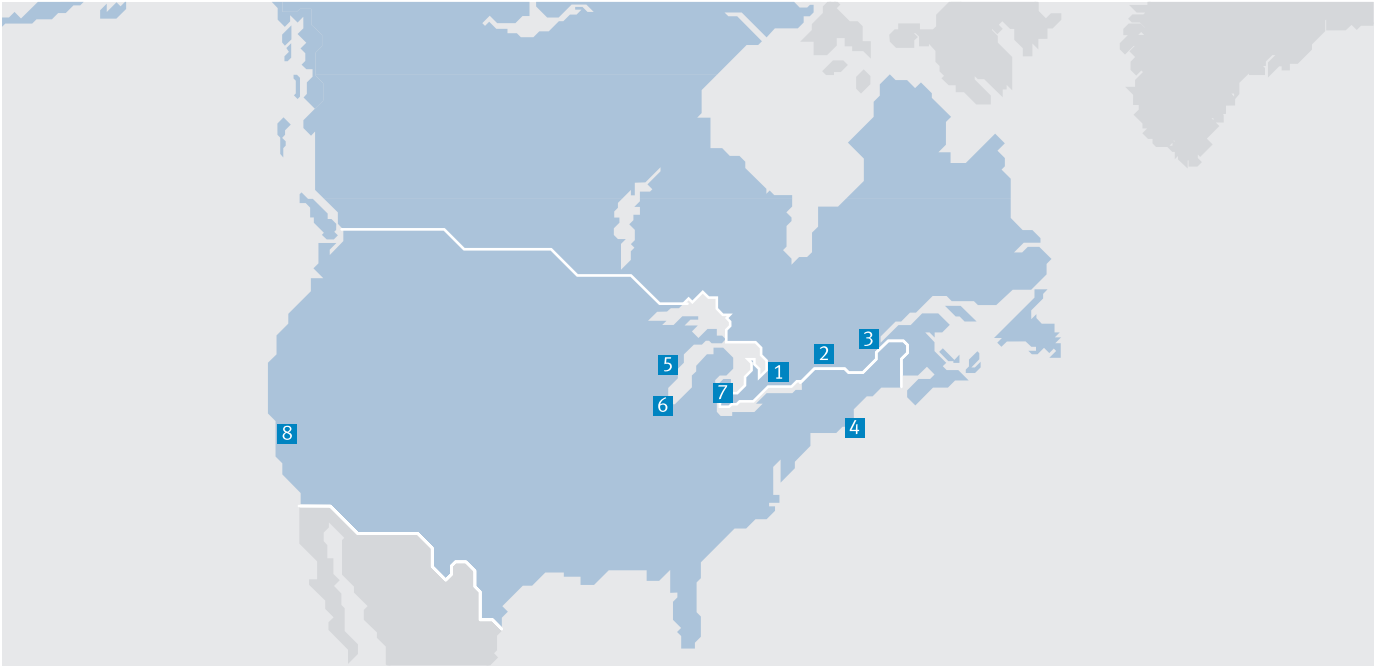


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