



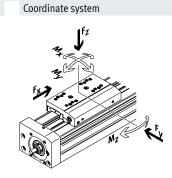
Electromechanical drives

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
- Velocities of up to 2 m/s
- Acceleration of up to 20 $\ensuremath{\text{m/s}}^2$
- Repetition accuracy of up to $\pm 0.003 \mbox{ mm}$
- Strokes of up to 3000 mm



| F _x | v | | | | |
|----------------|--|--|---|---|--|
| [[N]] | [m/s] | Mx [Nm] | My [Nm] | Mz [Nm] | Characteristics |
| [N] | [111/5] | נואווון | [NIII] | [INITI] | |
| ng guide | | | | | |
| 1/50 | 2 | 4.0 | 275 | 275 | minute in the second second |
| | | | | | Flat drive unit with rigid, closed profile |
| | | | | | Precision DUO guide rail with high load capacity |
| 1800 | 5 | 900 | 1450 | 1450 | Ideal as a base axis for linear gantries and cantilever axes |
| | | | | | |
| | | | | | |
| 50 | 3 | 3.5 | 10 | 10 | Rigid, closed profile |
| | | | | | Precision guide rail with high load capacity |
| | | | | | Small drive pinions reduce required driving torque |
| | | | | | |
| | | | | | Space-saving position sensing |
| 2500 | 5 | 529 | 1820 | 1820 | |
| | | | | I | |
| 350 | 5 | 16 | 132 | 132 | Internal guide and toothed belt |
| 800 | 5 | 36 | 228 | 228 | Precision guide rail with high load capacity |
| 1300 | 5 | 104 | 680 | 680 | Guide and toothed belt protected by cover strip |
| 2000 | 5 | 167 | 1150 | 1150 | High feed forces |
| | | | | | |
| | | | | | |
| 260 | 5 | 16 | 132 | 132 | Suitable for use in the food zone |
| | | | | | • "Clean look": smooth, easy-to-clean surfaces |
| | | | | | Internal guide and toothed belt |
| 1000 | | | | | Precision guide rail with high load capacity |
| | | | | | Guide and toothed belt protected by cover strip |
| | | | | | |
| | | | | | |
| | | | | | Internal guide and toothed belt |
| | | | | | Precision guide rail with high load capacity |
| 250 | 1.5 | 59.8 | 56.2 | 56.2 | Guide and toothed belt protected by cover strip |
| | | | | | |
| | | | | | · · |
| 50 | 3 | 2.5 | 20 | 20 | Cost-optimised rod guide |
| 100 | 3 | 5 | 40 | 40 | Ready-to-install unit |
| 350 | 3 | 15 | 124 | 124 | Linear bushings with high load capacity for dynamic operation |
| | | | | | |
| | | | | | |
| | 800 1300 2000 2000 2000 1000 75 120 250 50 100 | 450 3 1000 5 1800 5 1800 5 50 3 100 5 350 5 800 5 2500 5 350 5 300 5 2000 5 260 5 600 5 1000 5 75 1.2 120 1.5 250 1.5 50 3 100 3 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |

Electromechanical drives

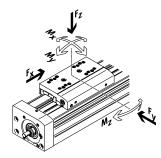
Selection aid

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

- Velocities of up to 2 m/s
- Acceleration of up to 20 $\ensuremath{\text{m/s}}^2$
- Repetition accuracy of up to ± 0.003 mm
- Strokes of up to 3000 mm



Coordinate system

| 9 | F _x | v | Mx | Mv | Mz | Characteristics |
|------------------|----------------|-------|------|------|------|---|
| | [N] | [m/s] | [Nm] | [Nm] | [Nm] | |
| er bearing guide | | | | | | |
| ELGA-TB-RF | | | | | | |
| Â | 350 | 10 | 11 | 40 | 40 | Heavy-duty roller bearing guide |
| | 800 | 10 | 30 | 180 | 180 | Guide and toothed belt protected by cover strip |
| | 1300 | 10 | 100 | 640 | 640 | Speeds of up to 10 m/s |
| L. | | | | | | Lower weight than axes with guide rails |
| | | | | | | |
| ELGA-TB-RF-F1 | | | | | | |
| | 260 | 10 | 8.8 | 32 | 32 | Suitable for use in the food zone |
| | 600 | 10 | 24 | 144 | 144 | "Clean look": smooth, easy-to-clean surfaces |
| | 1000 | 10 | 80 | 512 | 512 | Heavy-duty roller bearing guide |
| <u> <u>j</u></u> | | | | | - | Guide and toothed belt protected by cover strip |
| | | | | | | Lower weight than axes with guide rails |
| | | | | | | |
| in-bearing guide | | | | | | |
| ELGA-TB-G | | | | | | |
| | 350 | 5 | 5 | 30 | 10 | Guide and toothed belt protected by cover strip |
| | 800 | 5 | 10 | 60 | 20 | For simple handling tasks |
| /://// | 1300 | 5 | 120 | 120 | 40 | As a drive component for external guides |
| XIII - | | | | | | Insensitive to harsh ambient conditions |
| | | | | | | |
| ELGR-TB-GF | | | | | | |
| 1 A D | 50 | 1 | 1 | 10 | 10 | Cost-optimised rod guide |
| | 100 | 1 | 2.5 | 20 | 20 | Ready-to-install unit |
| | 350 | 1 | 1 | 40 | 40 | • Heavy-duty plain bearings for use in harsh environmental conditions |
| | | | | | | |
| SALI XII | | | | | | |
| | | | | | | |
| | | | | | 1 | |

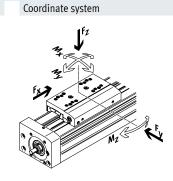
Electromechanical drives

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- Spindle axes
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- Acceleration of up to 20 $\ensuremath{\text{m/s}}^2$
- Repetition accuracy of up to ±0.003 mm
- Strokes of up to 3000 mm



| oindle axes | l e | 1 | Mx | 1 | Mz | Characteristics |
|---------------------------------------|-----------------------|------------|------------|------------|------------|--|
| pe | F _x [N] | v [m/s] | [Nm] | My [Nm] | [Nm] | Characteristics |
| eavy-duty recirculating ba | | | | | | |
| EGC-HD-BS | 00 | | | | | |
| l l l l l l l l l l l l l l l l l l l | 400 | 0.5 | 140 | 275 | 275 | Flat drive unit with rigid, closed profile |
| | 650 | 1.0 | 300 | 500 | 500 | Precision DUO guide rail with high load capacity |
| | 1500 | 1.5 | 900 | 1450 | 1450 | Ideal as a base axis for linear gantries and cantilever axes |
| | | | | | | |
| circulating ball bearing g | guide | | | | | |
| EGC-BS-KF | | | | | | |
| | 400 | 0.5 | 16 | 132 | 132 | Rigid, closed profile |
| | 650 | 1.0 | 36 | 228 | 228 | Precision guide rail with high load capacity |
| l Sill | 1500 | 1.5 | 144 | 680 | 680 | For the highest requirements in terms of feed force and accuracy |
| | 3000 | 2.0 | 529 | 1820 | 1820 | Space-saving position sensing |
| ELGA-BS-KF | | | | | | |
| | 650 | 0.5 | 16 | 132 | 132 | Internal guide and ball screw drive |
| | 1600 | 1.0 | 36 | 228 | 228 | Precision guide rail with high load capacity |
| | 3400 | 1.5 | 104 | 680 | 680 | • For the highest requirements in terms of feed force and accuracy |
| | 6400 | 2.0 | 167 | 1150 | 1150 | Guide and ball screw drive protected by cover strip |
| | | | | | | Space-saving position sensing |
| ELGC-BS-KF | | | | | | |
| LLOC-DJ-NI | 40 | 0.6 | 1.3 | 1.1 | 1.1 | Internal guide and ball screw drive |
| | 100 | 0.6 | 5.5 | 4.7 | 4.7 | Guide and ball screw drive protected by cover strip |
| l Sills | 200 | 0.8 | 29.1 | 31.8 | 31.8 | Space-saving position sensing |
| | 350 | 1.0 | 59.8 | 56.2 | 56.2 | |
| | | | | | | |
| | | | | | | |
| EGSK | 57 | 0.22 | 12 | 3.7 | 3.7 | • Coindle even with maximum presision compactness d-iidit. |
| | 57 | 0.33 | 13 28.7 | 3.7 9.2 | 3.7 9.2 | Spindle axes with maximum precision, compactness and rigidity |
| | 133 | 1.10 | | - | - | Recirculating ball bearing guide and ball screw drive without caged ball |
| | 184 | 0.83 | 60 70 5 | 20.4 | 20.4 | bearings |
| | 239 | 1.10 | 79.5 | 26 | 26 | Standard designs in stock |
| 118 | 392 | 1.48 | 231 | 77.3 | 77.3 | |

Key features

At a glance

- New heavy-duty design for:
- Maximum loads and torques
- High feed forces and velocities
- Long service life
- Precision DUO guide rail with high load capacity
- Ideal as a base axis for linear gantries and cantilever axes
- Space-saving position sensing possible via proximity switch in the profile slot

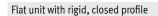
Flexible motor mounting

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

- Toothed belt material can be selected from:
 Chloroprene rubber for long service life
 - Coated PU with steel reinforcement cords for long service life and resilience to certain cooling lubricants
- Wide range of options for mounting on drives

EGC-HD-220

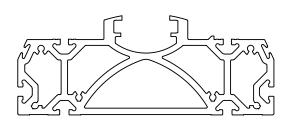
• In addition to the technical data, the toothed belt axis impresses with its excellent price/performance ratio



EGC-HD-125

EGC-HD-160





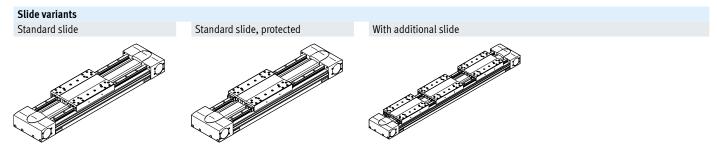
Characteristic values of the axes

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

| Version | Size | Working stroke | Velocity | Repetition | Feed force | Guide characteristics | | | | |
|----------------------------------|------|----------------|----------|------------|------------|-----------------------|-------|------|------|------|
| | | | | accuracy | | Forces and torques | | | | |
| | | | | | | Fy | Fz | Mx | My | Mz |
| | | [mm] | [m/s] | [mm] | [N] | [N] | [N] | [Nm] | [Nm] | [Nm] |
| Recirculating ball bearing guide | | | | | | | | | | |
| | 125 | 50 3000 | 3 | ±0.08 | 450 | 3650 | 3650 | 140 | 275 | 275 |
| | 160 | 50 5000 | 5 | ±0.08 | 1000 | 5600 | 5600 | 300 | 500 | 500 |
| | 220 | 50 4750 | 5 | ±0.1 | 1800 | 13000 | 13000 | 900 | 1450 | 1450 |
| | | | | | | | | | | |

- **Note** Engineering software PositioningDrives www.festo.com

Characteristics



Complete system comprising toothed belt axis, motor, motor controller and motor mounting kit Toothed belt axis with recirculating ball bearing guide



Motor



Servo motor: EMMT-AS, EMME-AS, EMMS-AS Stepper motor: EMMS-ST



- **Note** A range of specially matched complete solutions is available for the spindle axis EGC and the motors.

Servo drive



Motor mounting kit

Axial kit

Kit comprising:

- Motor flange
- Coupling housing
- Coupling
- Screws

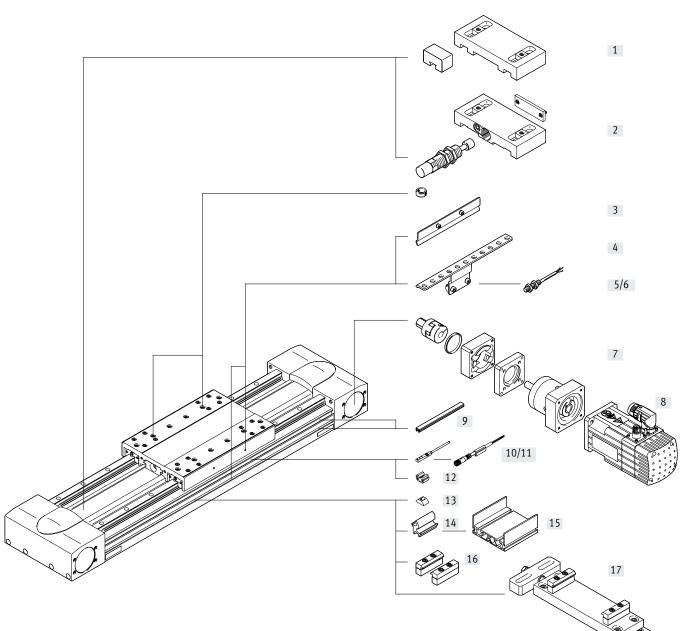
Servo drive: CMMT-AS Servo drive for extra-low voltage: CMMT-ST

→ Page 24

Type codes

| 001 | Series | | 014 | Slot nut for mounting slot [units] |
|-----------|---|---|----------|--|
| EGC | Electric linear axis | | | None |
| 002 | C.: | | Y | 199 |
| 002 HD | Guide Heavy-duty guide | | 015 | Proximity sensor, inductive, slot 8, PNP, N/O contact, cable 7.5 m [units] |
| | Theory-duty guide | | | None |
| 003 | Size | | X | 16 |
| 125 | 125 | | | |
| 160 | 160 | | 016 | Proximity sensor, inductive, slot 8, PNP, N/C contact, cable 7.5 m [units] |
| 220 | 220 | | 7 | None |
| 004 | Stroke | | Z | 16 |
| | 50 5000 | | 017 | Emergency buffer with retaining bracket [units] |
| | | | | None |
| 005 | Drive system | | A | 12 |
| ТВ | Toothed belt | | 018 | Shock absorber with retaining bracket [units] |
| 006 | Stroke reserve [mm] | | 010 | None |
| Н | 1 999 | | C | 12 |
| | | | | |
| 007 | Slide | | 019 | Proximity sensor, inductive, M8, PNP, N/O contact, cable 2.5 m [units] |
| GK | Standard slide | | | None |
| GP | Standard slide, protected | | 0 | 199 |
| 008 | Additional slide left | | 020 | Proximity sensor, inductive, M8, PNP, N/C contact, cable 2.5 m [units] |
| | None | | | None |
| KL | Additional slide, standard, left | | P | 199 |
| 009 | Additional slide, right | 1 | 021 | Proximity sensor, inductive, M8, PNP, N/O contact, plug M8 [units] |
| | None | | | None |
| KR | Additional slide standard, right | | W | 199 |
| | Terra and a set | | | |
| 010 | Toothed belt material | | 022 | Proximity sensor, inductive, M8, PNP, N/C contact, plug M8 [units] |
| PU1 | Standard Uncoated PU, FDA-compliant | | R | None 1 99 |
| PU2 | Coated PU | | | 1 |
| | | | 023 | Connecting cable, M8, 2.5 m [units] |
| 011 | Profile mounting | | | None |
| | None | | V | 199 |
| M | 1 50 | | 024 | Cable clip [units] |
| 012 | Mounting slot cover, 2x, 500 mm [units] | | CL | 10, 20, 30, 40, 50, 60, 70, 80, 90 |
| | None | | | |
| В | 1 50 | | 025 | Operating instructions |
| | | | | With operating instructions |
| 013 | Cover, sensor slot [units] | | DN | Without operating instructions |
| | None | | | |
| S | 1 50 | | | |

Peripherals overview

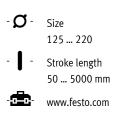


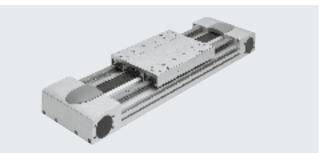
Peripherals overview

| | Type/order code | Description | → Page/Internet |
|------|--|--|-----------------|
| [1] | Emergency buffer with retaining bracket A | For avoiding damage at the end stop in the event of malfunction | 31 |
| [2] | Shock absorber with retaining bracket C | For avoiding damage at the end stop in the event of malfunction | 31 |
| [3] | Centring pin/sleeve ZBS, ZBH | For centring loads and attachments on the slide Included in the scope of delivery: For size 125: 2x ZBS-5, 2x ZBH-9 For size 160, 220: 2x ZBH-9 | 31 |
| [4] | Switch lug X, Z, O, P, W, R | For sensing the slide position | 29 |
| [5] | Sensor bracket O, P, W, R | Adapter for mounting the inductive proximity switches (round design) on the axis | 30 |
| [6] | Proximity switch, M8 O, P, W, R | Inductive proximity switch, round design The order code O, P, W, R includes 1 switch lug and max. 2 sensor brackets in the scope of delivery | 33 |
| [7] | Axial kit EAMM | For axial motor mounting (comprises: coupling, coupling housing and motor flange) | 24 |
| [8] | Motor EMME, EMMS | Motors specially matched to the axis, with gear unit, with or without brake | 24 |
| [9] | Slot cover B, S | For protection against contamination | 31 |
| [10] | Proximity switch, T-slot X, Z | Inductive proximity switch, for T-slot The order code X, Z includes 1 switch lug in the scope of delivery | 32 |
| [11] | Connecting cable V | For proximity switch (order code W and R) | 33 |
| [12] | Clip CL | For mounting the proximity switch cable in the slot | 31 |
| [13] | Slot nut Y | For mounting attachments | 31 |
| [14] | Adapter kit DHAM | For mounting the support profile on the axis | 32 |
| [15] | Support profile HMIA | For mounting and guiding an energy chain | 32 |
| [16] | Profile mounting M | For mounting the axis on the profile | 27 |
| [17] | Adjusting kit EADC-E16 | For mounting the axis on a vertical surface. Once mounted, the axis can be aligned horizontally | 28 |

Data sheet







General technical data

| General technical data | | | | | | | |
|---|---------------------|----------------------------|--|---------|--|--|--|
| Size | | 125 | 160 | 220 | | | |
| Design | | Electromechanical axis wi | Electromechanical axis with toothed belt | | | | |
| Guide | | Recirculating ball bearing | guide | | | | |
| Mounting position | | Any | | | | | |
| Working stroke | [mm] | 50 3000 | 50 5000 | 50 4750 | | | |
| Max. feed force F _x | [N] | 450 | 1000 | 1800 | | | |
| Max. no-load torque ¹⁾ | [Nm] | 1.1 | 2.1 | 4.1 | | | |
| Max. no-load resistance to shifting ¹⁾ | [N] | 67.75 | 105.5 | 123.8 | | | |
| Max. driving torque | [Nm] | 7.2 | 20 | 59.58 | | | |
| Max. speed | | | | | | | |
| EGCGK | [m/s] | 3 | 5 | | | | |
| EGCGP | [m/s] | - | 3 | | | | |
| Max. acceleration | [m/s ²] | 40 | 50 | | | | |
| Repetition accuracy | [mm] | ±0.08 | | ±0.1 | | | |
| 1) At 0.2 m/s | | | | | | | |
| Operating and environmental conditions | | | | | | | |
| Ambient temperature | [°C] | -10 +60 | | | | | |
| Degree of protection | | IP40 | | | | | |
| Duty cycle | [%] | 100 | | | | | |

| Weights [g] | | | | | | | | |
|---|-------|------|-------|--|--|--|--|--|
| Size | 125 | 160 | 220 | | | | | |
| Basic weight with 0 mm stroke ¹⁾ | 4720 | 9050 | 25510 | | | | | |
| Additional weight per 10 mm stroke | 73 | 107 | 210 | | | | | |
| Slide | Slide | | | | | | | |
| EGCGK | 1218 | 2571 | 6317 | | | | | |
| EGCGP | - | 2643 | 6417 | | | | | |
| Additional slide | | | | | | | | |
| EGCGK | 1026 | 2022 | 5498 | | | | | |
| EGCGP | - | 2134 | 5598 | | | | | |

1) Incl. slide

Toothed belt

| Toothed belt | | | | | | |
|--------------------------|----------|-------|-------|-------|--|--|
| Size | | 125 | 160 | 220 | | |
| Pitch [mm] | | 3 | 5 | 8 | | |
| Width [mm] | | 30.3 | 40.0 | 50.5 | | |
| Elongation ¹⁾ | | | | | | |
| EGC | [%] | 0.178 | 0.161 | 0.173 | | |
| EGCPU2 | [%] | 0.085 | 0.094 | 0.068 | | |
| Effective diameter | [mm] | 32.47 | 39.79 | 66.21 | | |
| Feed constant | [mm/rev] | 102 | 125 | 208 | | |

1) At max. feed force

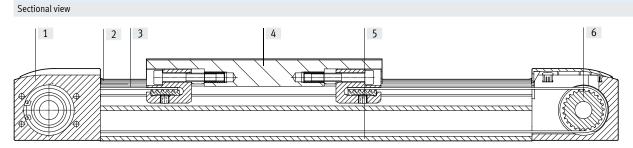
Mass moment of inertia

| Size | | 125 | 160 | 220 |
|---------------------------------|--------------------------|-------|--------|--------|
| Jo | [kg cm ²] | 4.639 | 14.49 | 108.99 |
| J _H per metre stroke | [kg cm ² /m] | 0.38 | 1.267 | 6.269 |
| J _L per kg payload | [kg cm ² /kg] | 2.635 | 3.96 | 10.96 |
| J _w Additional slide | [kg cm ²] | 3.3 | 11.734 | 80.66 |

The mass moment of inertia $J_{A}% ^{A}\left(A\right) =0$ of the entire axis is calculated as follows:

 $J_A = J_0 + J_W + J_H x$ working stroke [m] + $J_L x m_{payload}$ [kg]

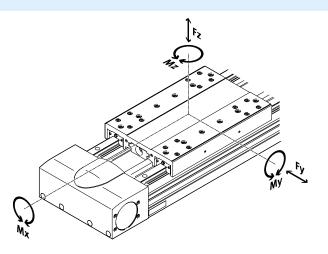
Materials



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

Characteristic load values

The indicated forces and torques refer to the slide surface. The point of application of force is the point where the centre of the guide and the longitudinal centre of the slide intersect. These values must not be exceeded during dynamic operation. Special attention must be paid to the deceleration phase.



Max. permissible forces and torques for a service life of 5000 km

| Size | | 125 | 160 | 220 | | | |
|--------------------|------|------|------|-------|--|--|--|
| Fy _{max.} | [N] | 3650 | 5600 | 13000 | | | |
| Fz _{max.} | [N] | 3650 | 5600 | 13000 | | | |
| Mx _{max.} | [Nm] | 140 | 300 | 900 | | | |
| My _{max.} | [Nm] | 275 | 500 | 1450 | | | |
| Mz _{max.} | [Nm] | 275 | 500 | 1450 | | | |
| | | | | | | | |

- 🛔 - Note

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

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

Calculating the load comparison factor:

$$f_{v} = \frac{\left|F_{y1}\right|}{F_{y2}} + \frac{\left|F_{z1}\right|}{F_{z2}} + \frac{\left|M_{x1}\right|}{M_{x2}} + \frac{\left|M_{y1}\right|}{M_{y2}} + \frac{\left|M_{z1}\right|}{M_{z2}} \le 1$$

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

Calculating the service life

Note

Engineering software

PositioningDrives

www.festo.com

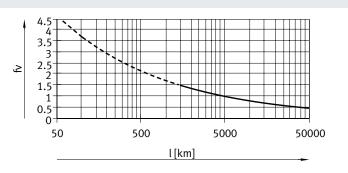
The service life of the guide depends on the load. To be able to make a statement as to the service life of the guide, the graph below plots the load comparison factor fv against the service life.

Load comparison factor $_{\rm fv}$ as a function of service life

Example:

A user wants to move an X kg load. Using the formula (\rightarrow page 12) gives a value of 1.5 for the load comparison factor f_v. According to the graph, the guide would have a service life of approx. 1500 km. Reducing the acceleration reduces the Mz and My values. A load comparison factor f_v of 1 now gives a service life of 5000 km.

These values are only theoretical. You must consult your local Festo contact for a load comparison factor fv greater than 1.5.



 $f_v > 1.5$ 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 engineering software can be

for a service life of 5000 km.

used to calculate the guide workload

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

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

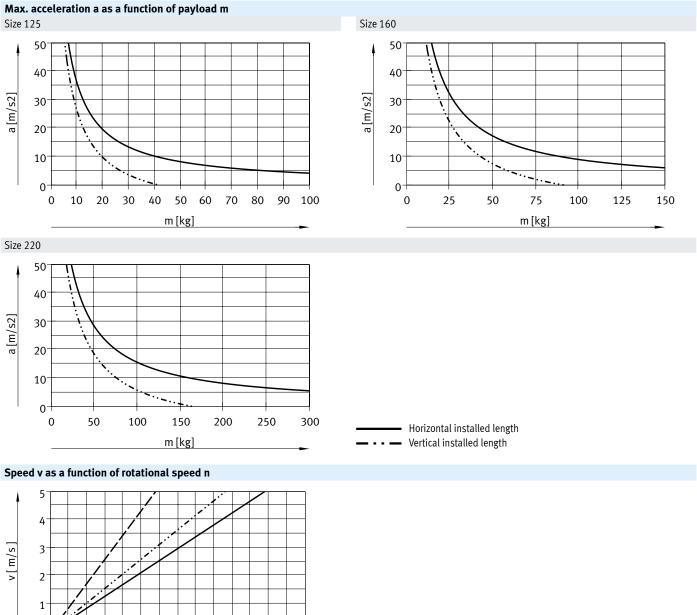
To make it easier to compare the guide capacity of linear axes EGC with bearing guides, the table below lists the theoretically permissible forces and torques for a calculated service life of 100 km. This corresponds to the dynamic forces and torques to ISO.

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

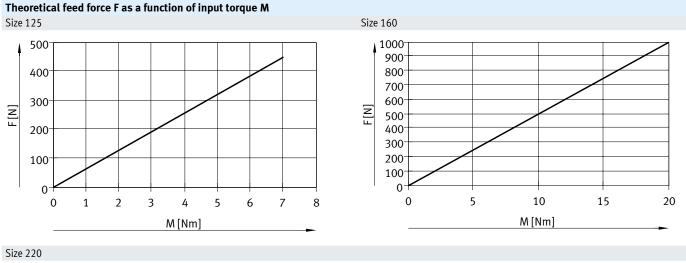
Max. permissible forces and torques for a theoretical service life of 100 km (from a guide perspective only)

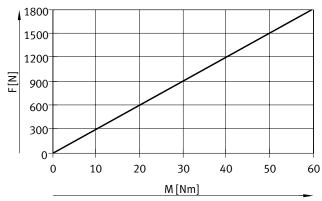
| Size | | 125 | 160 | 220 |
|--------------------|------|-------|-------|-------|
| Fy _{max.} | [N] | 13447 | 20631 | 47892 |
| Fz _{max.} | [N] | 13447 | 20631 | 47892 |
| Mx _{max.} | [Nm] | 516 | 1105 | 3316 |
| My _{max.} | [Nm] | 1013 | 1842 | 5342 |
| Mz _{max.} | [Nm] | 1013 | 1842 | 5342 |

Data sheet



0-





Stroke reserve

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

Stroke reserve

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

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

Example:

Type: EGC-HD-125-500-TB-20H-... Working stroke = 500 mm 2x stroke reserve = 40 mm

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

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

| With a toothed belt axis with additional slide [1], the working stroke is reduced by the length of the additional slide L17 and the distance between both slides L18 L16 = Slide length | | ariant GP is ordered, the mal slide is also protected Distance between | Example: | | | |
|--|-----|--|--------------------------------------|-------------------------------------|-------------|--|
| L17 = Additional slide length | L17 | both slides | Type: EGC-HD-220-100 L18 = 100 mm | 00-TBGP-KR 0 mm – 328 mm – 100 m | ım = 572 mm | |
| Dimensions – Additional slide Size | 125 | 160 | | 220 | | |
| Variant | GK | GK | GP | GK | GP | |
| Length L17 [mm] | 202 | 220 | 250 | 302 | 328 | |

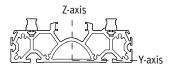
Working stroke reduction per side

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

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

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

2nd moments of area



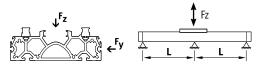
| Size | | 125 | 160 | 220 | |
|------|--------------------|----------------------|----------------------|----------------------|--|
| ly [| [mm ⁴] | 6.89x10 ⁵ | 12.9x10 ⁵ | 55.8x10 ⁵ | |
| lz [| [mm ⁴] | 40.9x10 ⁵ | 98.9x10 ⁵ | 351x10 ⁵ | |

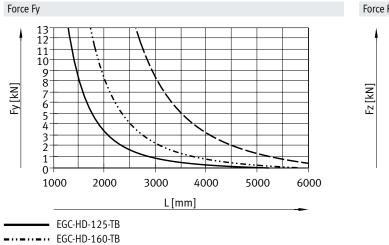
Data sheet

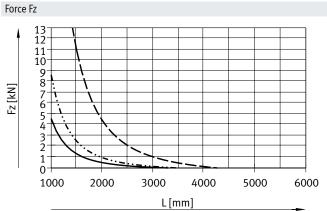
Maximum permissible support span L (without profile mounting) as a function of force F

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

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







Recommended deflection limits

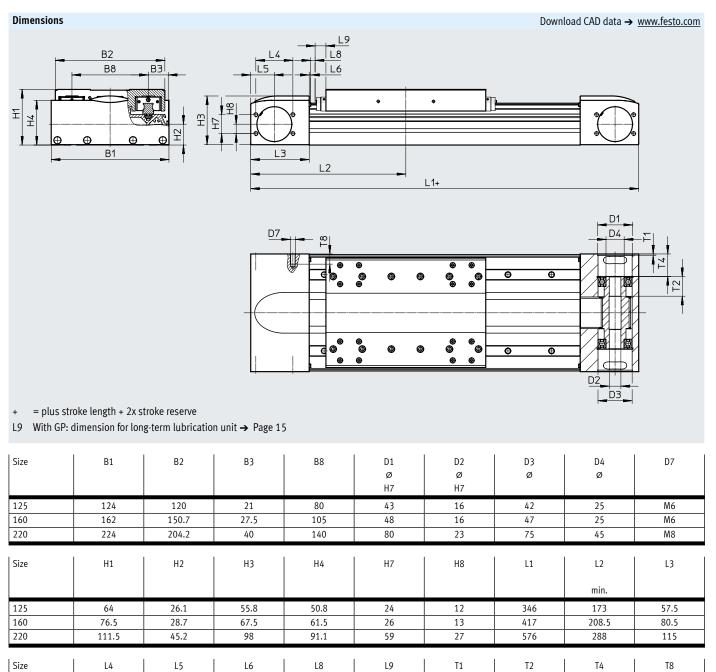
---- EGC-HD-220-TB

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

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

| Size | | Static deflection (stationary load) |
|---------|---------------------------------------|--|
| 125 220 | 0.05% of the axis length, max. 0.5 mm | 0.1% of the axis length |

Data sheet



23.65

31.1

47.5

13

14

16

27

27

29.5

2.1

3.1

3.1

27.5

32.5

50

1.8

2

2

2

0.55

2

14.9

18

46

51

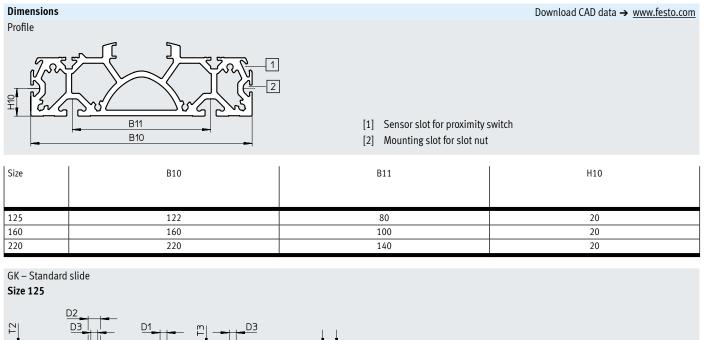
76

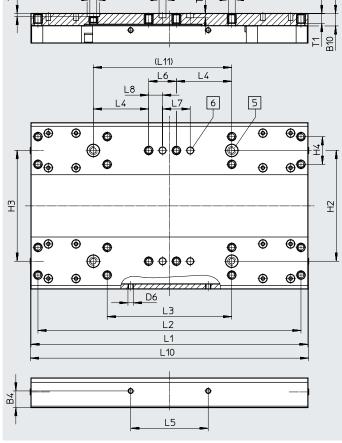
125

160

220

Data sheet





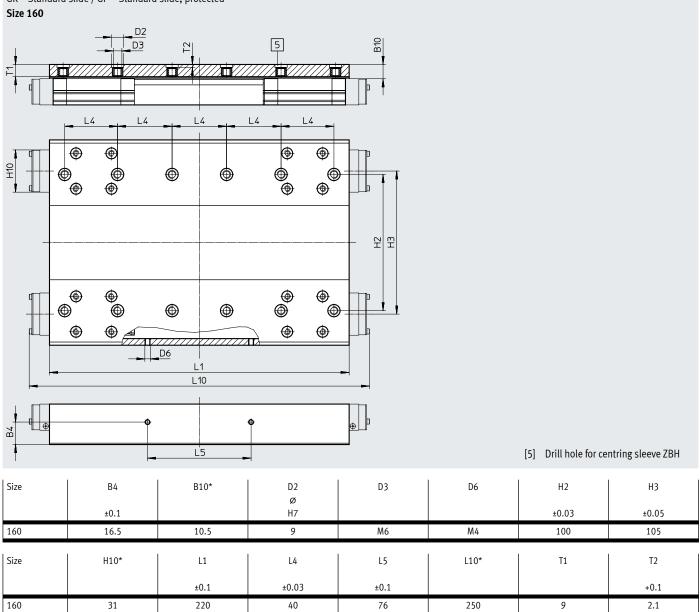
[5] Drill hole for centring sleeve ZBH[6] Drill hole for centring pin ZBS

| Size | B4 | B10 | D1 Ø | D2 Ø | D3 | D6 | H2 | H3 | H4 | L1 | L2 | L3 |
|------|------|------|---------|---------|-------|------|-------|-------|------|------|------|------|
| | ±0.1 | | H7 | H7 | | | ±0.03 | ±0.05 | ±0.1 | ±0.1 | ±0.2 | ±0.1 |
| 125 | 12 | 9 | 5 | 9 | M5 | M4 | 80 | 80 | 20 | 200 | 190 | 90 |
| Size | L4 | L5 | 1 | .6 | L7 | L8 | L10 | L11 | 1 | 1 | T2 | T3 |
| | ±0.1 | ±0.2 | ±(|).1 | ±0.03 | ±0.1 | | ±0.03 | | | +0.1 | +0.1 |
| 125 | 40 | 56 | 2 | .0 | 20 | 10 | 202 | 100 | 7 | .8 | 2.1 | 3.1 |

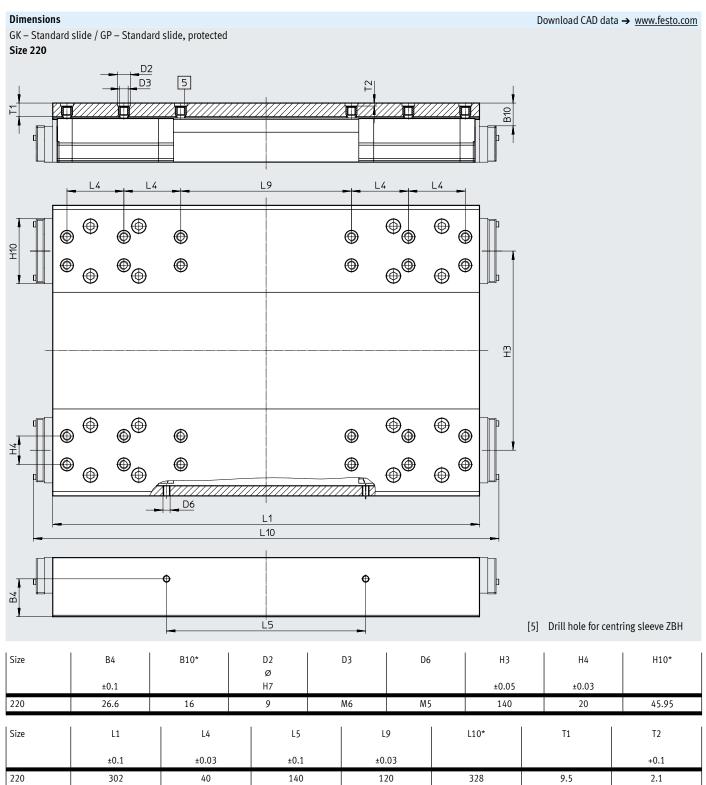
Data sheet

Dimensions

GK – Standard slide / GP – Standard slide, protected Size 160

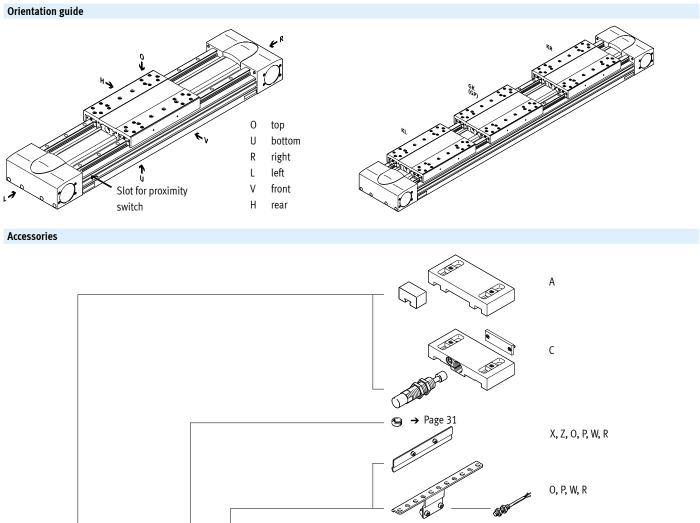


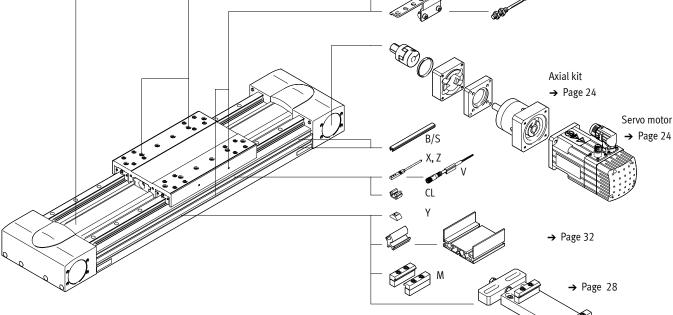
* Protected version Download CAD data → www.festo.com



* Protected version

Ordering data – Modular product system





Ordering data – Modular product system

| Size | ize | | 160 | 220 | Conditions | Code | Enter code |
|---|--------------------------|------------------------------------|--------------------|---|------------|---------|------------|
| Module no. | | 556823 | 556824 | 556825 | | | |
| Design | | Linear axis | | | | EGC | EGC |
| Guide | | Heavy-duty guide | | | | -HD | -HD |
| Size | | 125 | 160 | 220 | | | |
| Stroke length | [mm] | 50 3000 | 50 5000 | 50 4750 | [1] | | |
| Function | | Toothed belt | | | | -TB | -TB |
| Stroke reserve | [mm] | 0 999 (0 = no st | troke reserve) | | [1] | H | |
| Slide | | Standard slide | | | | -GK | |
| | | - | Standard slide, pr | otected | | -GP | |
| Additional slide | Left | Additional slide, s | tandard, left | | [2] | -KL | |
| | Right | Additional slide, s | tandard, right | | [2] | -KR | |
| Material of toothed belt | | Chloroprene rubb | er | | | | |
| | | Coated PU | | | | -PU2 | |
| Accessories | | Accessories enclos | sed separately | | | ZUB- | ZUB- |
| Profile mounting | | 1 50 | | M | | | |
| Slot cover | Mounting slot | 1 50 (1 = 2 unit | s, 500 mm long) | [4] | В | | |
| | Sensor slot | 1 50 (1 = 2 unit | s, 500 mm long) | | S | | |
| Slot nut for mounting slot | | 1 99 | | [4] | Y | | |
| Proximity switch (SIES) inductive, slot | N/O contact, 7.5 m cable | 1 6 | | | X | | |
| type 8, PNP, incl. switch lug | N/C contact, 7.5 m cable | 1 6 | | | Z | | |
| Emergency buffer with retaining brack | et | 1 2 | | [3] | A | | |
| Shock absorber with retaining bracket | | 1 2 | [3] | C | | | |
| Proximity switch (SIEN) inductive, | N/O contact, 2.5 m cable | 1 99 | | | | 0 | |
| M8, PNP, incl. switch lug with sensor | N/C contact, 2.5 m cable | 1 99 | | | | P | |
| bracket | N/O contact, M8 plug | 1 99 | | | 1 | W | |
| | N/C contact, M8 plug | 1 99 | | | 1 | R | |
| Connecting cable, M8, 3-wire, 2.5 m | | | 199 | | | | |
| Cable clip | | 10, 20, 30, 40, 50, 60, 70, 80, 90 | | | 1 | V CL | |
| Dperating instructions | | available (operatii | | to be included as already mat are available free of charge | | -DN | |

[1] -... The sum of nominal stroke and 2x stroke reserve must not exceed the maximum stroke length.

[2] KL, KR If the protected slide variant (GP) is selected,

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

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

[4] B, Y Scope of delivery with size 160 for both slot sizes (\rightarrow Page 31).

- 🌡 - 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

Data sheets → Internet: eamm-a

| Motor/gear unit ¹⁾ | Axial kit | |
|-------------------------------------|-----------|----------------|
| | | assessed blill |
| Туре | Part no. | Туре |
| EGC-HD-125 | | |
| With servo motor and gear unit | | |
| EMMS-AS-55 | 1190076 | EAMM-A-M43-60G |
| EMGA-60-P-GSAS-55 | | |
| EMMT-AS-60, EMME-AS-60 | 1456612 | EAMM-A-M43-60H |
| EMGA-60-P-GEAS-60 | | |
| EMMS-AS-70 | 1190076 | EAMM-A-M43-60G |
| EMGA-60-P-GSAS-70 | | |
| With stepper motor and gear unit | | |
| EMMS-ST-57 | 1190076 | EAMM-A-M43-60G |
| EMGA-60-P-GSST-57 | | |
| With integrated drive and gear unit | | |
| EMCA-EC-67 | 1456612 | EAMM-A-M43-60H |
| EMGC-60 | | |

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

| Permissible axis/motor combinations with | ı axial kit | | Data sheets → Internet: eamm-a |
|---|-------------|--|--------------------------------|
| Motor/gear unit ¹⁾ | Axial kit | | |
| | | Lesson and the second sec | 1 1 1 |
| Туре | Part no. | Туре | |
| EGC-HD-160 | | | |
| With servo motor and gear unit | | | |
| EMMT-AS-60, EMME-AS-60 EMGA-60-P-GEAS-60 | 1456614 | EAMM-A-M48-60H | |
| EMMS-AS-70 EMGA-80-P-GSAS-70 | 1190421 | EAMM-A-M48-80G | |
| EMMT-AS-80, EMME-AS-80 EMGA-80-P-GEAS-80 | 1190421 | EAMM-A-M48-80G | |
| EMMT-AS-100, EMME-AS-100, EMMS-AS-100 EMGA-80-P-GSAS-100 | 1190421 | EAMM-A-M48-80G | |
| With stepper motor and gear unit | | | |
| EMMS-ST-87 EMGA-80-P-GSST-87 | 1190421 | EAMM-A-M48-80G | |
| With integrated drive and gear unit | I | | |
| EMCA-EC-67 EMGC-60 | 1456614 | EAMM-A-M48-60H | |
| EGC-HD-220 | | | |
| With servo motor and gear unit | | | |
| EMMT-AS-100, EMME-AS-100, EMMS-AS-100 EMGA-120-P-GSAS-100 | 1190774 | EAMM-A-M80-120G | |
| EMMS-AS-140 EMGA-120-P-GSAS-140 | 1190774 | EAMM-A-M80-120G | |

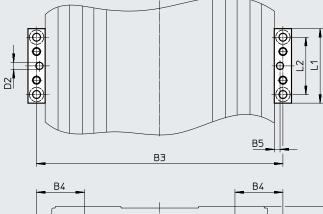
1) The input torque must not exceed the max. permissible transferable torque of the axial kit.

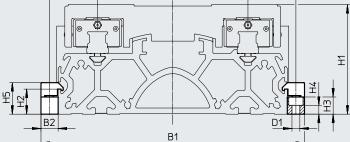
| Axial kit | Comprising: | | | | |
|-----------------|------------------|-----------------------|---------------|--|--|
| | Motor flange | Coupling | Centring ring | | |
| All all ases | | OF BEEL | 0 | | |
| Part no. | Part no. | Part no. | Part no. | | |
| Туре | Туре | Туре | Туре | | |
| EGC-HD-125 | | | | | |
| 1190076 | 1597579 | 558001 | 575962 | | |
| EAMM-A-M4360G | EAMF-A-43D-60G/H | EAMD-32-32-11-16X20 | EAML-43-4-43 | | |
| 1456612 | 1597579 | 1377840 | 575962 | | |
| EAMM-A-M43-60H | EAMF-A-43D-60G/H | EAMD-32-32-14-16X20 | EAML-43-4-43 | | |
| GC-HD-160 | | | | | |
| 1456614 | 1460111 | 3420022 | 558031 | | |
| EAMM-A-M48-60H | EAMF-A-48C-60G/H | EAMD-42-40-14-16X25-U | EAML-48-4-48 | | |
| 1190421 | 1190375 | 1781043 | 558031 | | |
| EAMM-A-M48-80G | EAMF-A-48C-80G | EAMD-42-40-20-16X25-U | EAML-48-4-48 | | |
| GC-HD-220 | | | | | |
| 1190774 | 1190702 | 1781045 | 1209006 | | |
| EAMM-A-M80-120G | EAMF-A-80A-120G | EAMD-56-46-25-23X27-U | EAML-80-6-80 | | |

Profile mounting MUE (order code M)

Material: Anodised aluminium RoHS-compliant





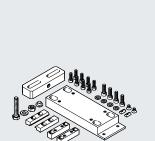


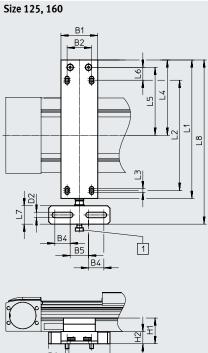
| Dimensions and ord | Dimensions and ordering data | | | | | | | | | | | | |
|--------------------|------------------------------|-----|------|------|----|----|-----|--------|----|----------|-----------|------|--|
| For size | B1 | B2 | B3 | B4 | B5 | B5 | | | D2 | | H1 | H2 | |
| | | | | | | | Ø | | Ø | | | | |
| | | | | | | | | | H) | 7 | | | |
| 125 | 146 | 12 | 134 | 27 | 4 | | 5.5 | | 5 | | 64 | 17.5 | |
| 160 | 184 | 12 | 172 | 33.5 | 4 | | 5.5 | | 5 | | 76.5 | 17.5 | |
| 220 | 258 | 19 | 239 | 49.5 | 4 | | 9 | | 5 | | 111.5 | 16 | |
| For size | НЗ | H4 | H5 | L1 | | L | .2 | Weight | | Part no. | Туре | | |
| | | | | | | | | [g] | | | | | |
| 125 | 12 | 6.2 | 22 | 52 | | 4 | 0 | 80 | | 558043 | MUE-7 0/8 | 80 | |
| 160 | 12 | 6.2 | 22 | 52 | | 4 | 0 | 80 | | 558043 | MUE-7 0/8 | 80 | |
| 220 | 14 | 5.5 | 29.5 | 90 | | 4 | 0 | 290 | | 558044 | MUE-120 | /185 | |

Accessories

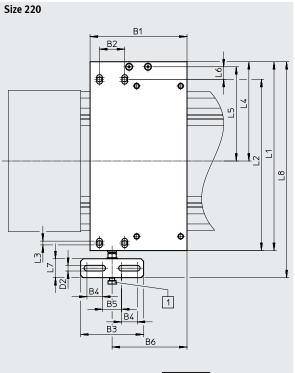
Adjusting kit EADC-E16

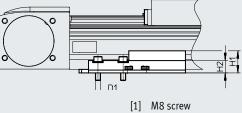
Material: Wrought aluminium alloy RoHS-compliant





B3





| Dimensions and ord | ering data | | | | | | | | | | | |
|--------------------|------------|-------|-----|------|----|-----|-----|-------|-------|----------|---------------|-----|
| For size | B1 | B2 | B3 | B4 | B5 | B6 | D1 | D2 | H1 | H2 | L1 | L2 |
| | | | | | | | | | | | | |
| 125 | 60 | 40 | 100 | 25 | 30 | - | M6 | 9 | 42 | 20 | 226 | 180 |
| 160 | 60 | 40 | 100 | 25 | 30 | - | M6 | 9 | 44 | 22 | 266 | 220 |
| 220 | 154 | 40 | 100 | 25 | 30 | 119 | M8 | 9 | 35.1 | 19.6 | 300 | 260 |
| | | | | | | | | | | | | |
| For size | L3 | L4 | | L5 | L6 | L7 | L8 | Weigh | t P | Part no. | Туре | |
| | | | | | | | | [g] | | | | |
| 125 | 6 | 123 | | 111 | 21 | 30 | 308 | 974 | 8 | 3047580 | EADC-E16-125- | E14 |
| 160 | 6 | 143 | | 131 | 21 | 30 | 343 | 1189 | 8 | 8047581 | EADC-E16-160- | E14 |
| 220 | 6 | 157.7 | ' 1 | 49.7 | 20 | 30 | 343 | 1500 | 8 | 3047582 | EADC-E16-220- | E14 |

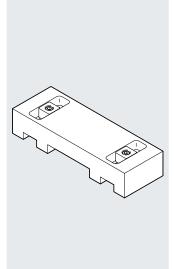
Shock absorber retainer, retaining bracket EAYH

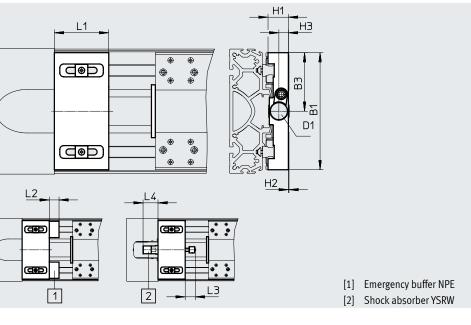
Material:

Anodised aluminium

RoHS-compliant

Emergency buffer NPE → Page 31 Shock absorber YSRW \rightarrow Page 31 (order code A or C)





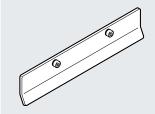
Cannot be used in combination with

the variants GP.

| Dimensions and or | dering data | | | | | | | | | | | | |
|---------------------|-------------|-----------|---------|------|-----|------|----|----|----|------|--------|----------|---------------|
| For size | B1 | B3 | D1 | H1 | H2 | H3 | L1 | L2 | L3 | L4 | Weight | Part no. | Туре |
| | | | | | | | | | | min. | [g] | | |
| Shock absorber ret | ainer | | | | | | | | | | | | |
| 125 | 120 | 60 | M16x1 | 19.8 | 0.4 | 9.7 | 50 | - | 20 | 36 | 286 | 1653251 | EAYH-L2-125 |
| 160 | 150.7 | 75.3 | M22x1.5 | 26.2 | 0.8 | 12.3 | 70 | - | 26 | 38.5 | 622 | 1653250 | EAYH-L2-160 |
| 220 | 204 | 102 | M26x1.5 | 38.7 | 0.1 | 15 | 70 | - | 34 | 63.5 | 1218 | 1653253 | EAYH-L2-220 |
| Retaining bracket f | or emergen | cy buffer | | | | | | | | | | | |
| 125 | 120 | - | - | 19.8 | 0.4 | - | 50 | 17 | - | - | 260 | 1662803 | EAYH-L2-125-N |
| 160 | 150.7 | - | - | 26.2 | 0.8 | - | 70 | 25 | - | - | 617 | 1669259 | EAYH-L2-160-N |
| 220 | 204 | - | - | 38.7 | 0.1 | - | 70 | 30 | - | - | 1195 | 1669260 | EAYH-L2-220-N |

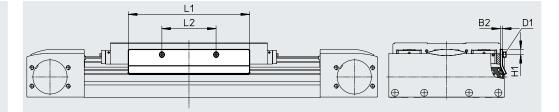
Switch lug SF-EGC-HD-1

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



Material: Galvanised steel





Dimensions and ordering data

| For size | B2 | D1 | H1 | L1 | L2 | Weight [g] | Part no. | Туре |
|----------|----|-------|------|-----|-----|---------------|----------|-----------------|
| 125 | 2 | M4x8 | 7.8 | 150 | 56 | 70 | 570027 | SF-EGC-HD-1-125 |
| 160 | 3 | M4x8 | 7.3 | 170 | 76 | 160 | 1645872 | SF-EGC-HD-1-160 |
| 220 | 3 | M5x10 | 11.5 | 250 | 140 | 310 | 1645866 | SF-EGC-HD-1-220 |

Accessories

Switch lug SF-EGC-HD-2

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

Material: Galvanised steel RoHS-compliant

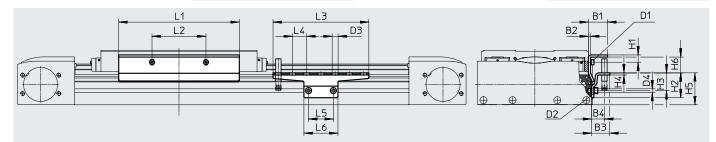


Sensor bracket HWS-EGC

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







| Dimensions and | ordering data | | | | | | | | | |
|----------------|---------------|----|------|------|-------|-------|-----|-----|------|----|
| For size | B1 | B2 | B3 | B4 | D1 | D2 | D3 | D4 | H1 | H2 |
| | | | | | | | Ø | ø | | |
| 125 | 24 | 2 | 25.5 | 18 | M4x8 | M5x8 | 8.4 | 5.2 | 9 | 35 |
| 160 | 27 | 3 | 25.5 | 18 | M4x8 | M5x8 | 8.4 | 5.2 | 10.3 | 35 |
| 220 | 31 | 3 | 25.5 | 18 | M5x10 | M5x14 | 8.4 | 5.2 | 11.5 | 65 |
| | | | | | | | | | | |
| For size | H3 | H4 | H5 | H6 | L1 | L2 | L3 | L4 | L5 | L6 |
| | | | | | | | | | | |
| 125 | 25 | 3 | 45 | 14 | 150 | 56 | 135 | 20 | 35 | 48 |
| 160 | 25 | 3 | 45 | 22.2 | 170 | 76 | 135 | 20 | 35 | 48 |
| 220 | 55 | 3 | 75 | 18.4 | 250 | 140 | 215 | 20 | 35 | 48 |

| For size | Weight [g] | Part no. Type | | | For size | Weight [g] | Part no. | Туре |
|----------|---------------|---------------|-----------------|--|----------|----------------|----------|--------------|
| | Switch lug | | | | | Sensor bracket | | |
| 125 | 122 | 570030 | SF-EGC-HD-2-125 | | 125 | 110 | 558057 | HWS-EGC-M5 |
| 160 | 261 | 1645865 | SF-EGC-HD-2-160 | | 160 | 110 | 558057 | HWS-EGC-M5 |
| 220 | 430 | 1645868 | SF-EGC-HD-2-220 | | 220 | 217 | 570365 | HWS-EGC-M8-B |

Accessories

| Ordering data | 1 | 1 | 1 | 1 - | 1- | l1 |
|-----------------------------|-------------------------|------------------------------------|------------|----------|-------------|--------------------|
| | For size | Description | Order code | Part no. | Туре | PE1 |
| Emergency buffer NPE | | | | | | |
| | 125 | For use in combination with | A | 1662475 | NPE-125 | 1 |
| | 160 | retaining bracket EAYH | | 1672593 | NPE-160 | |
| | 220 | | | 1672598 | NPE-220 | |
| Shock absorber YSRW | | | | | Data cho | ets → Internet: y |
| | 125 | For use in combination with shock | С | 191196 | VSRW-12-20 | lets → Internet: y |
| | 160 | absorber retainer EAYH | | 191190 | YSRW-12-20 | |
| | 220 | | | 191197 | YSRW-20-34 | |
| | 220 | | | 191196 | 13KW-20-54 | |
| Slot nut NST | | | | | | |
| () | 125, 160 ²⁾ | For mounting slot | Y | 150914 | NST-5-M5 | 1 |
| | | | | 8047843 | NST-5-M5-10 | 10 |
| | | | | 8047878 | NST-5-M5-50 | 50 |
| | 160 ³⁾ , 220 | For mounting slot | Y | 150915 | NST-8-M6 | 1 |
| | | | | 8047868 | NST-8-M6-10 | 10 |
| | | | | 8047869 | NST-8-M6-50 | 50 |
| Centring pin/sleeve ZBS/ZBH | | | | | | |
| | 125 | For slide | - | 150928 | ZBS-5 | 10 |
| | 125, 160, 220 | | | 150927 | ZBH-9 | |
| Slot cover ABP | I | | | | | |
| | 125, 160 ²⁾ | For mounting slot | В | 151681 | ABP-5 | 2 |
| | 160 ³⁾ , 220 | Every 0.5 m | | 151682 | ABP-8 | |
| | , | | | | | |
| Slot cover ABP-S | | | | | | |
| \sim | 125, 160, 220 | For sensor slot | S | 563360 | ABP-5-S1 | 2 |
| | | Every 0.5 m | | | | |
| | | | | | | |
| Clip SMBK | | | | | | |
| Reg . | 125, 160, 220 | For sensor slot, for attaching the | CL | 534254 | SMBK-8 | 10 |
| | | proximity switch cables | | | | |

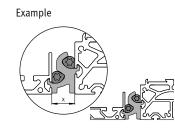
1) Packaging unit

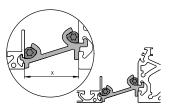
For mounting slot at the side
 For mounting slot underneath

Mounting options between axis and support profile

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

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





| Ordering data | | | | | |
|--------------------|----------|---|----------|------------------|------------------|
| | For size | Description | Part no. | Туре | PE ¹⁾ |
| Adapter kit DHAM | | | | | |
| | 160 | For mounting the support profile on the axis Spacing between axis and profile is 20 mm | 562241 | DHAM-ME-N1-CL | 1 |
| | 220 | | 562242 | DHAM-ME-N2-CL | |
| | 125, 160 | For mounting the support profile on the axisSpacing between axis and profile is 50 mm | 574560 | DHAM-ME-N1-50-CL | |
| | 220 | | 574561 | DHAM-ME-N2-50-CL | |
| Support profile HN | IIA | · · · · · | | | |
| These a | 70 120 | For guiding an energy chain | 539379 | HMIA-E07- | 1 |

1) Packaging unit

Ordering data - Provimity switches for T-slot inductive

| Ordering data – | Proximity switches for T- | slot, inductive | | | | | Data sheets → Internet: sies |
|-----------------------|---------------------------|-----------------------|------------------|---------------------|------------|----------|------------------------------|
| | Type of mounting | Electrical connection | Switching output | Cable length [m] | Order code | Part no. | Туре |
| N/O contact | | | | | | | |
| | Insertable in the slot | Cable, 3-wire | PNP | 7.5 | Х | 551386 | SIES-8M-PS-24V-K-7.5-0E |
| ET BOT | from above, flush with | Plug M8x1, 3-pin | | 0.3 | - | 551387 | SIES-8M-PS-24V-K-0.3-M8D |
| and the second second | the cylinder profile | Cable, 3-wire | NPN | 7.5 | - | 551396 | SIES-8M-NS-24V-K-7.5-OE |
| | | Plug M8x1, 3-pin | | 0.3 | - | 551397 | SIES-8M-NS-24V-K-0.3-M8D |
| N/C contact | | | | | | | |
| | Insertable in the slot | Cable, 3-wire | PNP | 7.5 | Z | 551391 | SIES-8M-PO-24V-K-7.5-0E |
| ET BI | from above, flush with | Plug M8x1, 3-pin | | 0.3 | - | 551392 | SIES-8M-PO-24V-K-0.3-M8D |
| ET.S. MALLE | the cylinder profile | Cable, 3-wire | NPN | 7.5 | - | 551401 | SIES-8M-NO-24V-K-7.5-OE |
| | | Plug M8x1, 3-pin | | 0.3 | - | 551402 | SIES-8M-NO-24V-K-0.3-M8D |

Accessories

| Ordering data | – Proximity switches M8 (round desig | n), inductive | | | | | Data sheets → Internet: sie | |
|--|--------------------------------------|---------------|------------------|--------------|--------------|----------|---|--|
| | Electrical connection | LED | Switching | Cable length | Order code | Part no. | Туре | |
| | | | output | [m] | | | | |
| I/O contact | | | | | | | | |
| | Cable, 3-wire | | PNP | 2.5 | 0 | 150386 | SIEN-M8B-PS-K-L | |
| | | • | NPN | 2.5 | - | 150384 | SIEN-M8B-NS-K-L | |
| - | Plug M8x1, 3-pin | | PNP | - | W | 150387 | SIEN-M8B-PS-S-L | |
| JAN BURN | | • | NPN | - | - | 150385 | SIEN-M8B-NS-S-L | |
| I/C contact | | | | | - | | | |
| | Cable, 3-wire | | PNP | 2.5 | Р | 150390 | SIEN-M8B-PO-K-L | |
| | | • | NPN | 2.5 | - | 150388 | SIEN-M8B-NO-K-L | |
| ~ | Plug M8x1, 3-pin | | PNP | - | R | 150391 | SIEN-M8B-PO-S-L | |
| | | • | NPN | - | - 150389 | | SIEN-M8B-NO-S-L | |
| ordering data | - Connecting cables | | | | | | Data sheets \rightarrow Internet: nel | |
| Ū | Electrical connection, left | Electrical o | onnection, right | | Cable length | Part no. | Туре | |
| | , | | | | [m] | | | |
| | Straight socket, M8x1, 3-pin | Cable, ope | n end, 3-wire | | 2.5 | 159420 | SIM-M8-3GD-2.5-PU | |
| a la | | | | | 2.5 | 541333 | NEBU-M8G3-K-2.5-LE3 | |
| y | | | | | 5 | 541334 | NEBU-M8G3-K-5-LE3 | |
| | Angled socket, M8x1, 3-pin | Cable, ope | n end, 3-wire | | 2.5 | 541338 | NEBU-M8W3-K-2.5-LE3 | |
| | | | | | 5 | 541341 | NEBU-M8W3-K-5-LE3 | |