

FESTO

Key features

At a glance

General

- Compact gantry distinguished by its high level of functionality in a very small installation space
- The drive design minimises the moving mass
- A perfectly matched drive and controller
- The kinematic system is actuated via 2 stepper motors with integrated optical encoder (closed loop) and one matching two-axis controller
- Can be actuated using two operating modes:
 - Direct mode via Ethernet and CAN
- Record selection via digital I/O, Ethernet and CAN
- EXCM-30 permits flexible motor mounting

Application examples

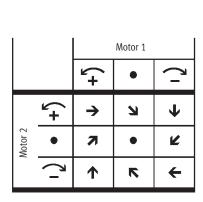
- Feeding, pressing, joining components
- Dispensing liquids
- Mounting electronic components

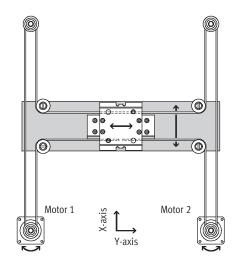
Functional principle

A slide is moved in a two-dimensional space (X-axis/Y-axis) via a toothed belt. The system is powered via 2 fixed motors in position-controlled mode

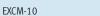
(closed loop). The motors are coupled to the toothed belt. The belt is guided via pulleys in such a way that the slide

can approach any position in a working space when the motors are actuated accordingly.





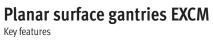
Planar surface gantry







| Туре | | EXCM-10 | EXCM-30 |
|---------------------|------|------------------------------|----------------------------------|
| Guide | | Plain-bearing guide | Recirculating ball bearing guide |
| Stroke of the | | · | |
| X-axis | [mm] | 150, 260, 300, 360, 460, 700 | 90 700 |
| Y-axis | [mm] | 110 | 110, 160, 210, 260, 310, 360 |
| Effective load | [kg] | 0.5 | 3 |
| Repetition accuracy | [mm] | ±0.1 | ±0.05 |
| Controller | | Attached | Separate |

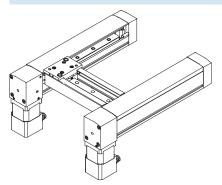


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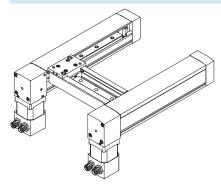
EXCM-30 - Motor mounting variants

Underneath

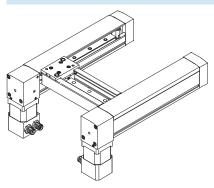
EXCM-30-...-B1 – Cable outlet at front



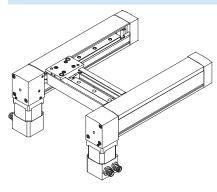
EXCM-30-...-B2 – Cable outlet at rear



EXCM-30-...-B3 – Cable outlet inside

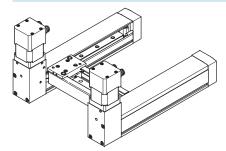


EXCM-30-...-B4 – Cable outlet outside

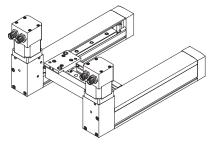


On top

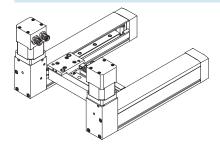
EXCM-30-...-T1 – Cable outlet at front



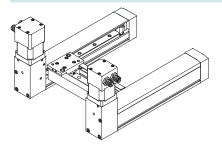
EXCM-30-...-T2 – Cable outlet at rear



EXCM-30-...-T3 – Cable outlet inside



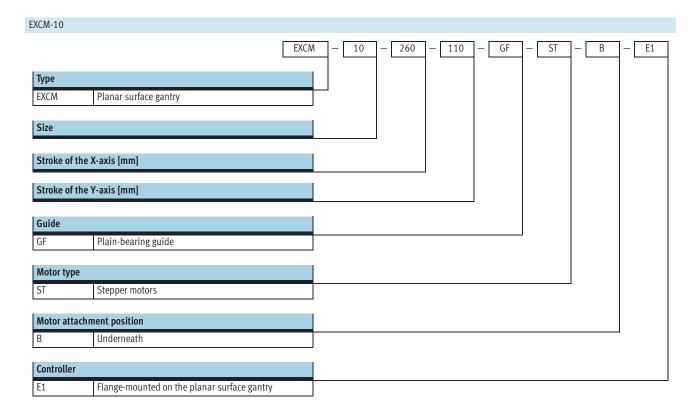
EXCM-30-...-T4 – Cable outlet outside





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Type codes



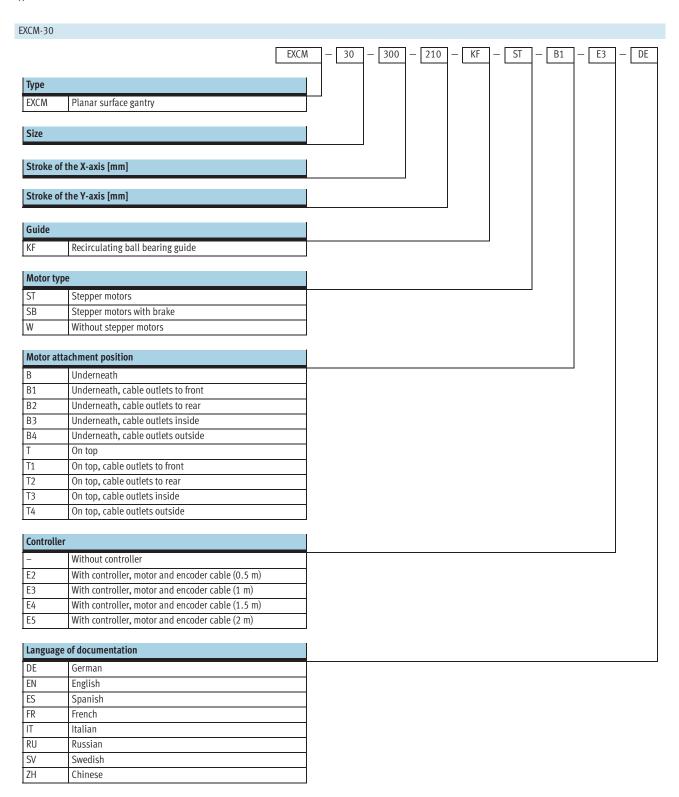
Note

Ordering data → 20



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Type codes



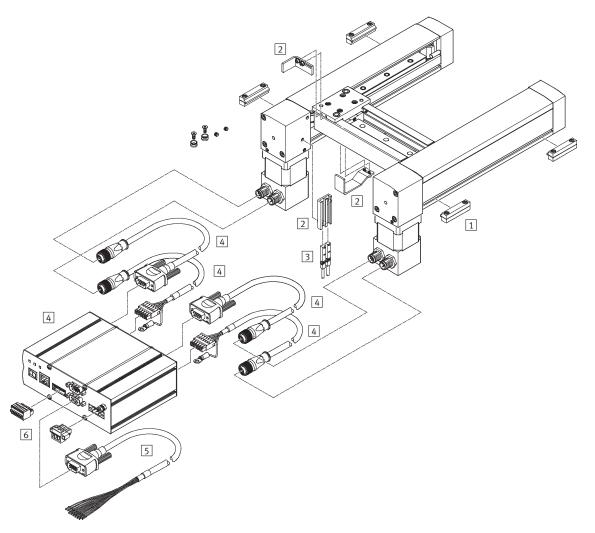
Note

Ordering data → 21



Planar surface gantries EXCM Peripherals overview

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| Atta | chments and accessories | | | |
|------|--------------------------------------|---|--|----|
| Туре | | Description | → Page/Internet | |
| | | For EXCM-10 | For EXCM-30 | |
| 1 | Profile mounting | - | Included in the scope of delivery: | 23 |
| | MUE | | • X stroke < 500 mm: 2 pairs | |
| | | | • X stroke ≥ 500 mm: 3 pairs | |
| 2 | Sensor mounting | - | For homing in combination with third-party | 22 |
| | EAPR | | motors | |
| 3 | Proximity sensor | - | 1 | 23 |
| | SIES-8M | | | |
| 4 | Drive package comprising controller, | Included in the scope of delivery of the planar | Available with or without drive package | 11 |
| | motor, motor cable | surface gantry | | |
| 5 | Pilot line | For I/O interface to any controller | For I/O interface to any controller | 23 |
| | NEBC-S1H15 | | | |
| 6 | Plug | Included in the scope of delivery of the planar | Included in the scope of delivery of the drive | - |
| | | surface gantry | package | |

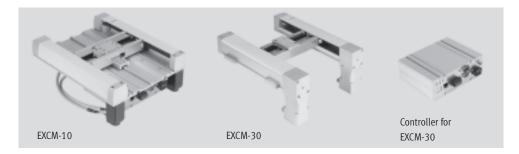
Note

Homing is always carried out using the mechanical stop in combination with the drive package from Festo; the sensor mounting and proximity sensor are not required in this case.



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Size 10,30

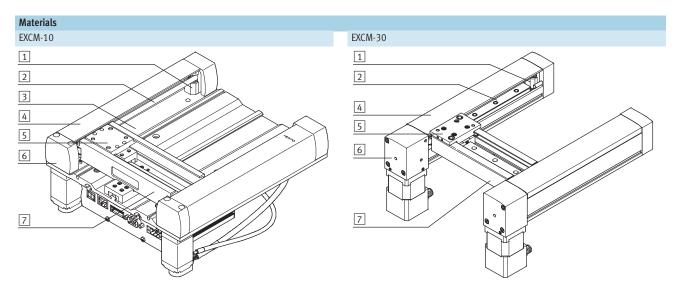


| General technical data | | | | | |
|----------------------------------|---------------------|------------------------------|----------------------------------|--|--|
| Size | | 10 | 30 | | |
| Design | | Planar surface gantry | Planar surface gantry | | |
| Guide | | Plain-bearing guide | Recirculating ball bearing guide | | |
| Stroke of the | | | · | | |
| X-axis | [mm] | 150, 260, 300, 360, 460, 700 | 100, 150, 200, 300, 400, 500 | | |
| | | - | 90 700 | | |
| Y-axis | [mm] | 110 | 110, 160, 210, 260, 310, 360 | | |
| Effective load at max. dyn. rsp. | [kg] | 0.5 | 2/3 ¹⁾ | | |
| Max. driving torque | [Nm] | - | 0.2 | | |
| Max. no-load torque | [Nm] | - | 0.04 ²⁾ | | |
| Max. acceleration | [m/s ²] | 3 | 10 | | |
| Max. speed | [m/s] | 0.3 | 0.5 | | |
| Repetition accuracy | [mm] | ±0.1 | ±0.05 | | |
| Mounting position | | Horizontal | Any ³⁾ | | |
| Type of mounting | | | · | | |
| Planar surface gantry | | Via through-hole and screw | Via profile mounting | | |
| Controller | | - | Via H-rail, on connecting plate | | |

- 1) Vertical/horizontal mounting position
- 2) At v=0.2 m/s and 45° diagonal travel
- 3) Motors with brake must be used in the case of vertical installation

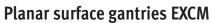
| Operating and environmental condition | Operating and environmental conditions | | | | |
|--|--|--|---------------------|--|--|
| Size | | 10 | 30 | | |
| Characteristics of digital logic outputs | | Not galvanically isolated | | | |
| Characteristics of logic inputs | | Galvanically connected to logic potential | | | |
| Logic input specification | | Based on IEC 61131-2 | | | |
| Protection class | | IP20 | P20 | | |
| Protective function | | l²t monitoring, following error monitoring, software end-position detection, | | | |
| | | voltage failure detection, current monitoring, temp | perature monitoring | | |
| Ambient temperature | [°C] | +10 +45 | | | |
| Storage temperature | [°C] | -10 +60 | | | |
| Relative air humidity | | 0 90 (non-condensing) | | | |
| Noise level | dB(A) | 38 52 | | | |
| Duty cycle | ycle [%] 100 | | | | |
| CE marking (see declaration of conform | ity) | In accordance with 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 \Rightarrow Support \Rightarrow 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.



| Mate | erials | | |
|------|-------------------|---------------------------------|-----------------|
| Size | | 10 | 30 |
| 1 | Guide pulley | Aluminium | |
| 2 | Toothed belt | Polychloroprene with glass cord | |
| 3 | Base plate | Aluminium | - |
| 4 | Cover | | |
| | X-axis | Plastic | |
| | Y-axis | Plastic | Stainless steel |
| 5 | Slide | Aluminium | |
| 6 | End cap | Aluminium | |
| 7 | Y-traverse | Aluminium | |
| - | Guide | Aluminium | Steel |
| | Ball bearings | Steel | |
| | Note on materials | RoHS-compliant | |

| Weight [g] | | | |
|--------------|--------------------------------|-------------------|---|
| Size | | 10 | |
| Product weig | tht with stroke (with motors a | nd controller) | |
| X-axis | Y-axis | | |
| 150 | 110 | 3,300 | |
| 260 | 110 | 3,800 | |
| 300 | 110 | 4,000 | |
| 360 | 110 | 4,200 | |
| 460 | 110 | 4,700 | |
| 700 | 110 | 5,700 | |
| | | · | |
| Size | | 30 | |
| Product weig | ht with stroke (without moto | s and controller) | |
| X-axis | Y-axis | | |
| 150 | 110 | 2,700 | |
| | | | |
| Additional w | eight per 50 mm stroke | | |
| X-axis | | 237 | |
| Y-axis | | 132 | |
| | | | |
| Weight | | | |
| 2 motors | | 900 | |
| 2 motors wit | h brake | 1,500 | |
| Controller | | 650 | · |



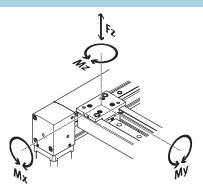
Technical data

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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.

They are valid for v = 0.2 m/s. These values must not be exceeded during dynamic operation. Special attention must be paid to the cushioning phase.



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

Calculating the load comparison factor:

$$f_{v} = \frac{|F_{z,dyn}|}{F_{z,max}} + \frac{|M_{x,dyn}|}{M_{x,max}} + \frac{|M_{y,dyn}|}{M_{y,max}} + \frac{|M_{z,dyn}|}{M_{z,max}} \leq 1$$

| Permissible forces and torques | | | | | |
|--------------------------------|------|-----|-----|--|--|
| Size | | 10 | 30 | | |
| Fz _{max} . | [N] | 5 | 100 | | |
| Mx _{max} . | [Nm] | 2 | 34 | | |
| My _{max} . | [Nm] | 0.5 | 67 | | |
| Mz _{max} . | [Nm] | 2 | 34 | | |

| Feed forces [N] | | | | | | | |
|-----------------------|------|-----|-----|-----|-----|-----|-----|
| Size | | 30 | | | | | |
| Stroke of the Y-axis | [mm] | 110 | 160 | 210 | 260 | 310 | 360 |
| Travel in X direction | | 55 | 55 | 55 | 50 | 40 | 34 |
| Travel in Y direction | | 55 | 55 | 46 | 38 | 32 | 28 |
| Travel 45° diagonal | | 35 | 35 | 35 | 30 | 25 | 23 |

| Weight of the Y-traverse [g] | | | | | | | |
|------------------------------|------|-----|-----|-----|-------|-------|-------|
| Size | | 30 | | | | | |
| Stroke of the Y-axis | [mm] | 110 | 160 | 210 | 260 | 310 | 360 |
| Y-traverse | | 670 | 800 | 930 | 1,070 | 1,200 | 1,330 |

Note

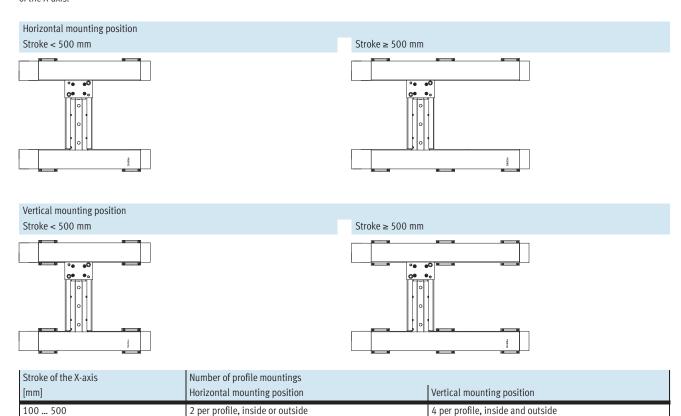
The weight forces due to load when the gantry is mounted vertically must be taken into consideration in the feed force. This is done by adding the weight of the Y-traverse to the load when the X-axis is vertical. The feed force is reduced by the value of the weight force with vertical travel upwards and increased with vertical travel downwards.



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EXCM-30 - Number of profile mountings

Different numbers of profile mountings must be used depending on the mounting position and stroke $\,$ of the X-axis.



6 per profile, inside and outside

3 per profile, inside or outside

500 ... 700





11

| Technical data – Controller | |
|------------------------------|--|
| Functional principle | Cascade controller with P position controller, PI speed controller, PI current controller; |
| | Current control, within the cascade controller |
| | PWM MOSFET power end stage |
| Operating mode | Direct mode |
| | Record selection |
| Rotary position encoder | Optical encoder, 2,000 steps/rev. |
| Display | 7-segment display |
| Input encoder interface | RS422 |
| Adjustable current reduction | Via software |
| Nominal current setting | Via software |
| Step adjustment | Via software |
| Switching logic | NPN (negative switching) |
| Braking resistor $[\Omega]$ | 15 |
| Mains filter | Integrated |

| Electrical data – Controller | | | | |
|---------------------------------------|--------|---------|----|--|
| For EXCM size | | 10 | 30 | |
| Max. intermediate circuit voltage | [V DC] | 28 | | |
| Nominal current per phase, effective | [A] | 1.4 | 3 | |
| Load supply | | | | |
| Nominal voltage | [V DC] | 24 | | |
| Nominal current | [A] | 2.8 | 6 | |
| Peak current | [A] | 8 | | |
| Logic supply | | | | |
| Nominal voltage | [V DC] | 24 ±15% | | |
| Nominal current | [A] | 0.3 | | |
| Max. current of digital logic outputs | [mA] | 100 | | |

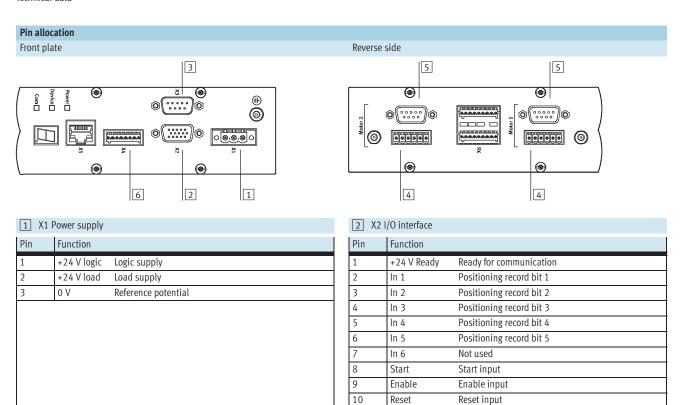
| Technical data – Fieldbus interface | | | | | |
|-------------------------------------|--------|------------------------|---------|--------------|--|
| Interfaces | | 1/0 | CANopen | Ethernet | |
| Number of digital logic outputs | | 5 | | | |
| Number of digital logic inputs | | 9 | | | |
| Operating range of logic inputs | [V DC] | 8 30 | | | |
| Process coupling | | 32 positioning records | | | |
| Communication profile | | - | FHPP | TCP/IP, FHPP | |
| Max. fieldbus transmission rate | [Mbps] | - | 1 | 100 | |

| Mechanical data – Motor | | | | | |
|-------------------------|------|-------|------|--|--|
| Size | | 10 | 30 | | |
| Nominal torque | [Nm] | 0.009 | 0.04 | | |
| Holding torque | [Nm] | 0.009 | 0.04 | | |



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Technical data



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12

13

14

15

Ready

Fault

MC

0 V

Acknowledge

Ready output

Fault output

Acknowledge output

Motion complete

Reference potential

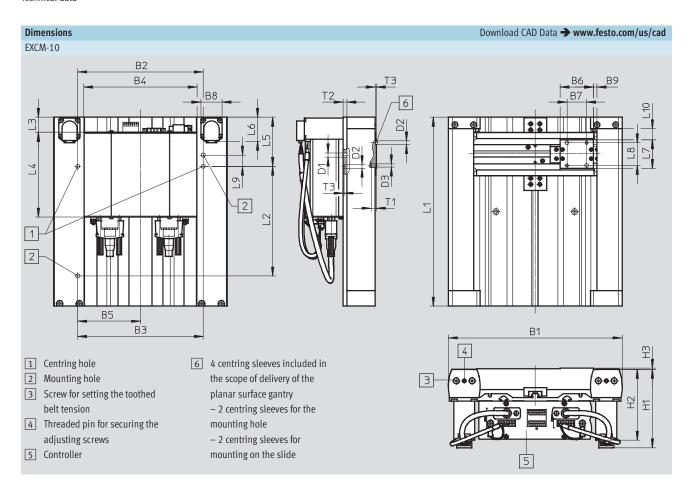


| 3 X3 | CAN interface | |
|------|---------------|---------------------|
| Pin | Function | |
| 1 | n.c. | |
| 2 | CAN_L | CAN low |
| 3 | GND | Reference potential |
| 4 | n.c. | |
| 5 | n.c. | |
| 6 | n.c. | |
| 7 | CAN_H | CAN high |
| 8 | n.c. | |
| 9 | n.c. | |

| 4 Mot | otor connection – supply | | | | | | | |
|-------|--------------------------|-----------------------|--|--|--|--|--|--|
| Pin | Function | | | | | | | |
| 1 | A | String A | | | | | | |
| 2 | A/ | String A/ | | | | | | |
| 3 | В | String B | | | | | | |
| 4 | B/ | String B/ | | | | | | |
| 5 | BR+ | 24 V brake connection | | | | | | |
| 6 | BR- | 0 V brake connection | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| 5 Mot | or connection – encoder | | | | | |
|-------|-------------------------------------|--|--|--|--|--|
| Pin | Function | | | | | |
| 1 | Α | | | | | |
| 2 | В | | | | | |
| 3 | N | | | | | |
| 4 | 0 V Reference potential for encoder | | | | | |
| 5 | 5 V Auxiliary supply for encoder | | | | | |
| 6 | A/ | | | | | |
| 7 | В/ | | | | | |
| 8 | N/ | | | | | |
| 9 | n.c. | | | | | |

| Pin | Function | |
|-----|-------------|----------------------------------|
| 1 | +24 V logic | Logic supply |
| 2 | TO | Interrupt motor voltage (at 0 V) |
| 3 | ES | Trigger braking ramp (at 0 V) |
| 4 | RB | Release brake (at 24 V) |
| 5 | FAULT | Fault |
| 6 | DIAG1 | |
| 7 | DIAG2 | |
| 8 | 0 V | Reference potential |

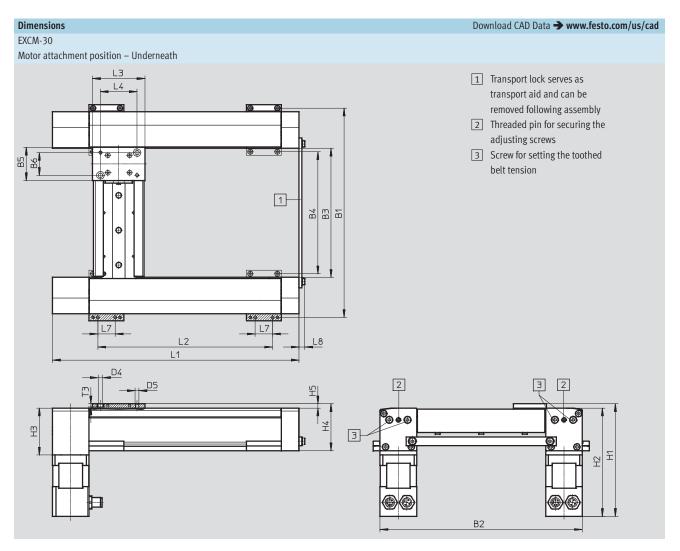


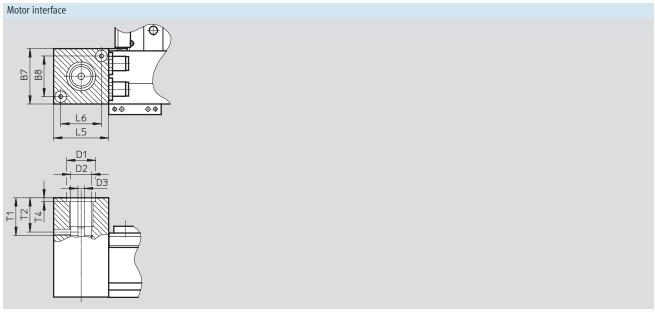
| Туре | B1 | B2 | B3 | B4 | + | B5 | | В6 | В7 | B8 |
|---------|------|---------|---------------|-------|-----------------|------|---|-----|-------|-----|
| | | ±0.03 | ±0.2 | | | ±0.2 | | | ±0.03 | |
| EXCM-10 | 230 | 166 | 166 | 14 | 9 | 83 | | 44 | 26 | 28 |
| Туре | B9 | D1 Ø | D2 ∅ H7 | D3 | H1 +1.35/-1. | H2 | | Н3 | L3 | L4 |
| EXCM-10 | 4.7 | 5.5 | 5 | M4 | 103.7 | 92. | 2 | 1.6 | 0 50 | 112 |
| Туре | L5 | L6 | L7 | L8 | L9 | L10 |) | T1 | T2 | T3 |
| | ±0.1 | | | ±0.03 | ±0.1 | | | | | |
| EXCM-10 | 65 | 32 | 38 | 30 | 15 | 14. | 3 | 6.7 | 5 | 12 |

| C 1 1 | | | |
|-----------|-----------|----------|------|
| Stroke-de | nandant | dimancin | nc |
| JUNE UL | pulluulli | unnunsid | 1113 |

| Туре | L1 | L2 |
|-----------------|------|------|
| | | |
| | +0.4 | ±0.2 |
| EXCM-10-150-110 | 250 | 145 |
| EXCM-10-260-110 | 360 | 255 |
| EXCM-10-300-110 | 400 | 295 |
| EXCM-10-360-110 | 460 | 355 |
| EXCM-10-460-110 | 560 | 455 |
| EXCM-10-700-110 | 800 | 695 |







| Туре | B5 | B6 | В7 | B8 | D Ø | | D2 Ø | D3 Ø | D4 Ø | D5 |
|---------|--------|--------|--------|------|--------|---|----------------|---------|---------|----|
| | | ±0.03 | | ±0.1 | Н | 7 | | f8 | Н8 | |
| EXCM-30 | 38 | 26 | 42 | 31 | 2 | 2 | 16 | 5 | 5 | M4 |
| | | | | | | | | | | |
| Туре | | H1 | | H2 | | ŀ | 1 3 | H4 | H5 | L3 |
| | EXCMST | EXCMSB | EXCMST | EXCM | SB | | | | | |
| | | | ±0.7 | | | | | | | |

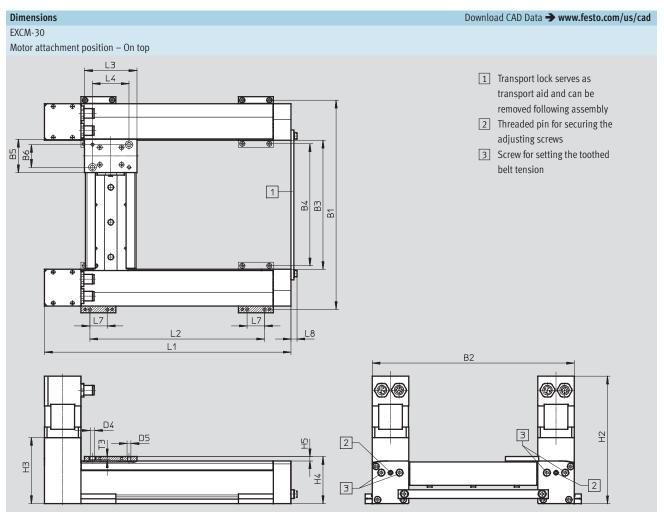
| EXCM-30 | 129.2 | 186.2 | 124.2 | 181 | .2 | 53.8 | 54 | 5 | 60 |
|---------|-------|-------|-------|-----|-----|------|----|-----|----|
| | | | | | | | | | |
| Туре | L4 | L5 | L6 | L7 | L8 | T1 | T2 | T3 | T4 |
| | | | | | | | | | |
| | ±0.03 | | ±0.1 | | | | | | |
| FXCM-30 | 42 | 42 | 31 | 20 | 6.6 | 28.7 | 26 | 3.7 | 3 |

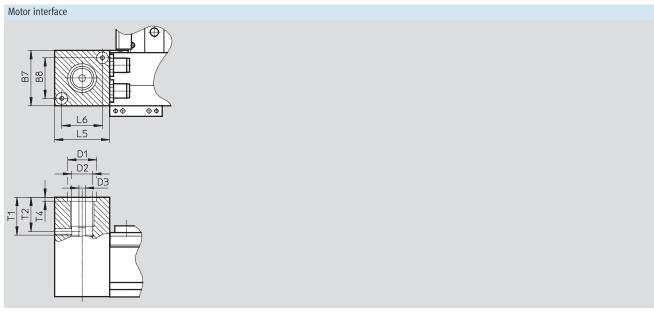
| C: 1 1 | | 1. | |
|----------|----------|-------|--------|
| Stroke-d | ependent | dimon | cinnc |
| JUNE U | CPCHUCH | unnen | 310113 |

| Stroke of the X-axis | L1 | L2 |
|----------------------|--------------|---------------|
| | | ±0.2 |
| 100 | 233 | 150.5 |
| 150 | 283 | 200.5 |
| 200 | 333 | 250.5 |
| 300 | 433 | 350.5 |
| 400 | 533 | 450.5 |
| 500 | 633 | 550.5 |
| 90 700 | 133 + stroke | 50.5 + stroke |

| Stroke of the Y-axis | B1 | B2 | В3 | В4 |
|----------------------|-----|-----|-----|-----|
| 110 | 240 | 232 | 148 | 140 |
| 160 | 290 | 282 | 198 | 190 |
| 210 | 340 | 332 | 248 | 240 |
| 260 | 390 | 382 | 298 | 290 |
| 310 | 440 | 432 | 348 | 340 |
| 360 | 490 | 482 | 398 | 390 |







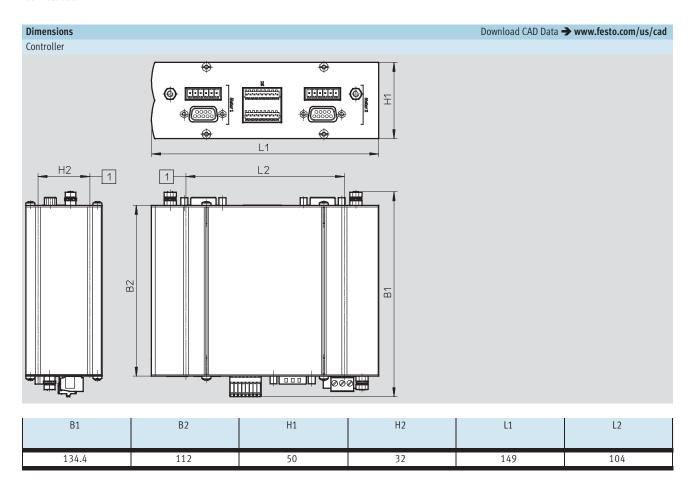
| Туре | B5 | В6 | B7 | B8 | D1 Ø | D2 Ø | D3 Ø | D4 Ø |
|---------|----|--------|--------------|------|---------|---------|---------|---------|
| | | ±0.03 | | ±0.1 | H7 | Ø | f8 | H8 |
| EXCM-30 | 38 | 26 | 42 | 31 | 22 | 16 | 5 | 5 |
| Туре | D5 | EXCMST | 12 EXCMSB | Н3 | H4 | H5 | L3 | L4 |
| | | ±1 | | | | | | ±0.03 |
| EXCM-30 | M4 | 146.2 | 203.2 | 75.6 | 54 | 5 | 60 | 42 |
| | | | | | | | | |
| Туре | L5 | L6 | L7 | L8 | T1 | T2 | T3 | T4 |
| | | ±0.1 | | | | | | |
| EXCM-30 | 42 | 31 | 20 | 6.6 | 28.7 | 26 | 3.7 | 3 |

| Ctualia | l a m a m d a m t | dimonaiana |
|----------|-------------------|------------|
| Stroke-d | iepenaeni | dimensions |

| Stroke of the X-axis | L1 | L2 |
|----------------------|--------------|---------------|
| | | ±0.2 |
| 100 | 233 | 150.5 |
| 150 | 283 | 200.5 |
| 200 | 333 | 250.5 |
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| Stroke of the Y-axis | B1 | B2 | B3 | B4 |
|----------------------|------|-----|-----|-----|
| 110 | 240 | 232 | 148 | 140 |
| 160 | 290 | 282 | 198 | 190 |
| 210 | 340 | 332 | 248 | 240 |
| 260 | 390 | 382 | 298 | 290 |
| 310 | 440 | 432 | 348 | 340 |
| 360 | 490 | 482 | 398 | 390 |
| 300 | ,,,, | ,32 | 370 | |





| Ordering data | | | |
|---------------|-----------------|----------|----------------------------|
| EXCM-10 | Stroke (X-axis) | Part No. | Туре |
| | [mm] | | |
| \bigcirc | 150 | 1801920 | EXCM-10-150-110-GF-ST-B-E1 |
| | 260 | 1801915 | EXCM-10-260-110-GF-ST-B-E1 |
| | 300 | 1801917 | EXCM-10-300-110-GF-ST-B-E1 |
| | 360 | 1801918 | EXCM-10-360-110-GF-ST-B-E1 |
| | 460 | 1801916 | EXCM-10-460-110-GF-ST-B-E1 |
| | 700 | 1801919 | EXCM-10-700-110-GF-ST-B-E1 |
| | | | |
| | | | |
| | | | |
| _ | | | |



Planar surface gantries EXCM Ordering data – Modular products

| 0r | dering table | | | | | |
|-----|---------------------------|------|--|-----------|------|-------|
| Siz | ze | | 30 | Condition | Code | Enter |
| | | | | S | | code |
| M | Module No. | | 2226101 | | | |
| | Product type | | EXCM series M | | EXCM | EXCM |
| | Size | | 30 | | -30 | 30 |
| | Stroke of the | [mm] | 100 | | -100 | |
| | X-axis | [mm] | 150 | | -150 | |
| | | [mm] | 200 | | -200 | |
| | | [mm] | 300 | | -300 | |
| | | [mm] | 400 | | -400 | |
| | | [mm] | 500 | | -500 | |
| | | [mm] | 90 700 | | | |
| | Stroke of the | [mm] | 110 | | -110 | |
| | Y-axis | [mm] | 160 | | -160 | |
| | | [mm] | 210 | | -210 | |
| | | [mm] | 260 | | -260 | |
| | | [mm] | 310 | | -310 | |
| | | [mm] | 360 | | -360 | |
| | Guide | | Recirculating ball bearing guide | | -KF | KF |
| | Motor type | | Stepper motors | | -ST | |
| | | | Stepper motors with brake | | -SB | |
| | | | Without stepper motors | 1 | -W | |
| | Motor attachment position | | Underneath | 2 | -B | |
| | | | Underneath, cable outlets to front | | -B1 | |
| | | | Underneath, cable outlets to rear | | -B2 | |
| | | | Underneath, cable outlets inside | | -B3 | |
| | | | Underneath, cable outlets outside | | -B4 | |
| | | | On top | 2 | -T | |
| | | | On top, cable outlets to front | | -T1 | |
| | | | On top, cable outlets to rear | | -T2 | |
| | | | On top, cable outlets inside | | -T3 | |
| | | | On top, cable outlets outside | | -T4 | |
| | Controller | | Without controller | | - | |
| | | | With controller, motor and encoder cable (0.5 m) | | -E2 | |
| | | | With controller, motor and encoder cable (1 m) | | -E3 | |
| | | | With controller, motor and encoder cable (1.5 m) | | -E4 | |
| | | | With controller, motor and encoder cable (2 m) | | -E5 | |
| | Language of documentation | | German | | -DE | |
| | | | English | | -EN | |
| | | | Spanish | | -ES | |
| | | | French | | -FR | |
| | | | Italian | | -IT | |
| | | | Russian | | -RU | |
| | | | Swedish | | -SV | |
| | | | Chinese | | -ZH | |

| 1 w The controller E2, E3, E4, E5 is omitted in combination with "Without stepper motor |
|---|
|---|

² **B, T** Not in combination with stepper motors ST and SB. Option if third-party motors are mounted $\,$



Planar surface gantries EXCM Accessories

FESTO

Sensor mounting EAPR

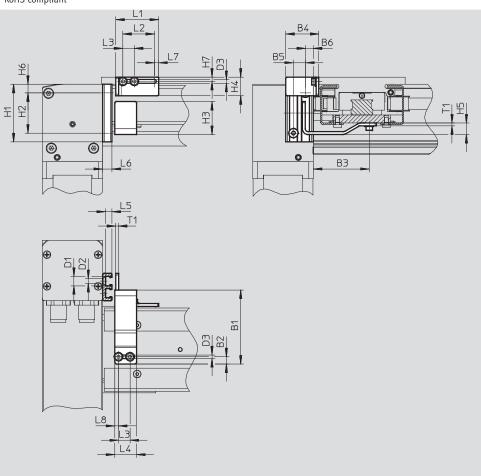
(incl. switch lug)

Materials:

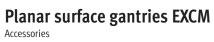
Bracket: Wrought aluminium alloy

Switch lug: Steel RoHS-compliant





| Dimensions and | ordering data | | | | | | | | | |
|----------------|---------------|-----|----|----|-----|-----|------------|----------|------------|----|
| For size | B1 | В2 | В3 | B4 | B5 | В6 | D1 Ø | D2 Ø | D3 Ø | H1 |
| 30 | 51.5 | 5 | 39 | 23 | 8.4 | 5.3 | 6.5 | 3.4 | 2.6 | 40 |
| For size | H2 | Н3 | H4 | Н5 | Н6 | Н7 | L1 | L2 | L3 | L4 |
| 30 | 28 | 23 | 13 | 8 | 6 | 3 | 30 | 22 | 8 | 15 |
| For size | L5 | L6 | L | 7 | L8 | T1 | Weight [g] | Part No. | Туре | |
| 30 | 4.5 | 6.5 | | 3 | 2.5 | 2 | 330 | 2319236 | EAPR-E11-3 | 0 |



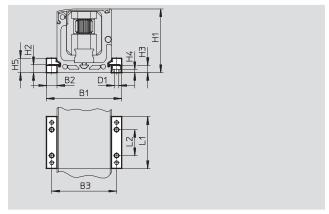
FESTO

Profile mounting MUE

Material: Anodised aluminium RoHS-compliant

Scope of delivery: 1 pair





| Dimensions and ordering data | | | | | | | | |
|------------------------------|----|----|----|---------|----|----|-----|--|
| For size | B1 | B2 | В3 | D1 ∅ | H1 | H2 | Н3 | |
| 30 | 58 | 8 | 50 | 3.4 | 49 | 6 | 5.5 | |

| For size | H4 | H5 | L1 | L2 | Weight [g] | Part No. | Туре |
|----------|-----|----|----|----|---------------|----------|--------|
| 30 | 2.3 | 11 | 40 | 20 | 20 | 558042 | MUE-50 |

| Ordering data - Cables | | | | |
|------------------------|-------------------------------------|--------------|----------|--------------------------|
| | Brief description | Cable length | Part No. | Туре |
| | | [m] | | |
| | Pilot line, | 1 | 2307459 | NEBC-S1H15-E-1.0-N-LE15 |
| | for I/O interface to any controller | 2.5 | 2052917 | NEBC-S1H15-E-2.5-N-LE15 |
| | | 5 | 2052918 | NEBC-S1H15-E-5.0-N-LE15 |
| | | 10 | 2052919 | NEBC-S1H15-E-10.0-N-LE15 |

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

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