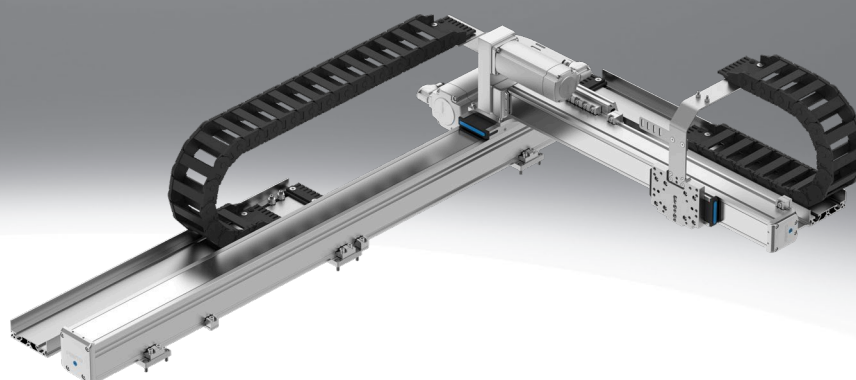


## 2D cantilever systems

**FESTO**



### Key features

#### At a glance

The cantilever system facilitates movement in 2D space.

The cantilever system is composed of several axis modules depending on the requirements.

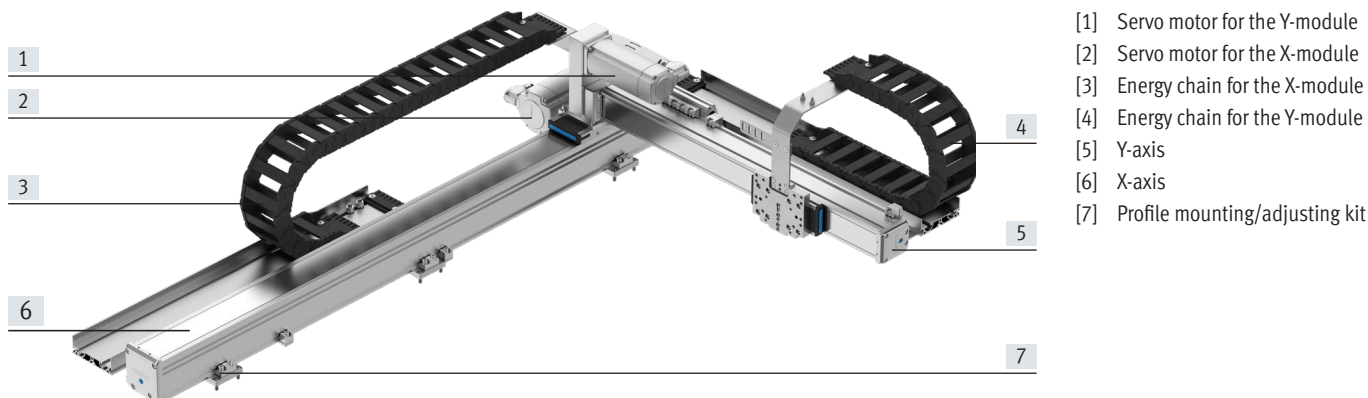
These are all tried-and-tested components from Festo.

- Can be used universally for handling light to medium-weight workpieces or payloads
- Optimum ratio of installation space to working space
- Working space with minimal interfering contours – freely accessible from three sides

- Electric components – can be freely combined
- As an electrical solution it is freely positionable/any intermediate positions

Range of applications:

- For any movements in 2D space
- Ideal for line assembly processes
- Cost-effective handling unit in a compact format for small parts handling and simple tasks (YXCR-B)



- [1] Servo motor for the Y-module
- [2] Servo motor for the X-module
- [3] Energy chain for the X-module
- [4] Energy chain for the Y-module
- [5] Y-axis
- [6] X-axis
- [7] Profile mounting/adjusting kit

#### Description of the modules

##### X-module

Setup:

The Y-module EHY-AS consists of a linear axis which is powered by a servo or stepper motor.

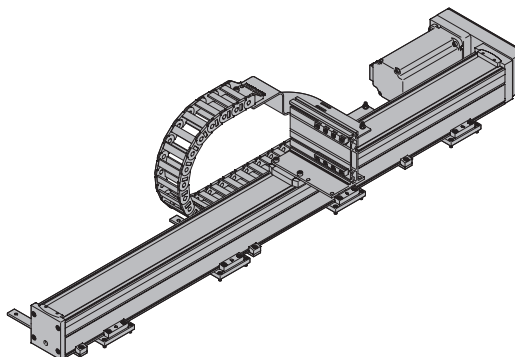
Adapters are mounted on the slide of the X-axis to connect the Y-module.

The position of the motor and energy chain can be selected using the configurator.

The following components are located on the motor side:

- Energy chain (optional)
- Multi-pin plug distributor for proximity switch (if a sensor package has been selected)

Sample image:



## Key features

### Description of the modules

#### Y-module

##### Setup:

The Y-module EHY consists of a linear axis which is powered by a servo or a stepper motor.

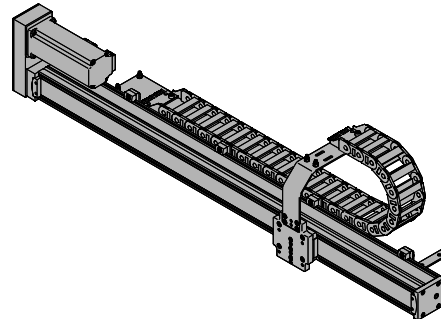
Adapters are mounted on the slide of the Y-axis to connect the Z-module.

The position of the motor and energy chain is dependent on the position of the motor on the X-module.

The following components are located on the motor side:

- Energy chain (optional)
- Multi-pin plug distributor for proximity switch (if a sensor package has been selected)

##### Sample image:



Key features

**Dispatch options**

**Fully assembled:**

The cantilever system is fully assembled. All cables and tubing are installed and connected. The system is already set up on delivery, but must be adapted to the particular mounting surface during installation.  
Note flatness → table below.

**Partially assembled:**

The cantilever system is delivered partially assembled. This means that both axis modules (Y-/Z-axis) are assembled, each with the optional motors. The partially assembled system must be completed by the customer. Help can be found in the assembly instructions provided.  
Optional accessories (→ page 11) are enclosed.  
Note flatness → table below.

| System overview <sup>1)</sup>             |                                            |
|-------------------------------------------|--------------------------------------------|
| Size                                      | YXCE-2-D                                   |
| Max. working stroke                       | X: 3000 mm<br>Y: 500 mm                    |
| Max. payload                              | Dependent on the selected dynamic response |
| Required flatness of the mounting surface | ≤ 0.1 mm/m                                 |
| Mounting position                         | Horizontal                                 |

1) Drive package depends on the configuration selected.

## Key features

### Configurator: Handling Guide Online (HGO)

#### Selecting a handling system

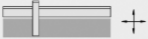
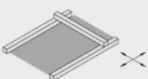
Planning complex handling systems takes a lot of time. You can use the configurator "Handling Guide Online" (HGO) to design a customised handling system for your application in just a few steps.

You can choose from the following systems:

- 2D linear gantry
- 2D planar surface gantry
- 2D cantilever system
- Three-dimensional gantry
- 3D cantilever system

#### Advantages:

- Automatic selection of all relevant components
- Automatic design and calculation of the workload
- Quote created automatically
- CAD model available immediately
- Configuration-specific parameters for servo drives available immediately
- Complete Eplan project can be ordered according to the individual configuration
- Fully automated processing
- You can order fully or partially assembled systems through the Online Shop
- Lots of possible options

|                                            |                                                                                     |                                                                                                                                                                                                           |
|--------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="radio"/> 2D linear gantry     |    | Movements in 2D in the vertical working space:<br>Linear gantries as complete systems.<br>Electric and pneumatic axes can be combined<br><input type="checkbox"/> Animation                               |
| <input type="radio"/> 2D gantry            |    | Movements in 2D in the horizontal working space:<br>Planar surface gantries as complete systems.<br>Combining electric axes.<br>Easy to connect to your own Z unit.<br><input type="checkbox"/> Animation |
| <input type="radio"/> 2D cantilever system |   | Movements in 2D in the horizontal working space:<br>Cantilever system as complete system.<br>Combining electric axes.                                                                                     |
| <input type="radio"/> 3D gantry            |  | Movements in 3D:<br>Three-dimensional gantries as complete systems.<br>Electric and pneumatic axes can be combined<br><input type="checkbox"/> Animation                                                  |
| <input type="radio"/> 3D cantilever system |  | Movements in 3D:<br>Cantilever system as complete system.<br>Electric and pneumatic axes can be combined                                                                                                  |

#### Entering the application data

- Payload
- Drive system of the axis
- Distance from the centre of the load
- Working stroke
- Reference cycle

#### Axis definition and payload

##### Axis definition

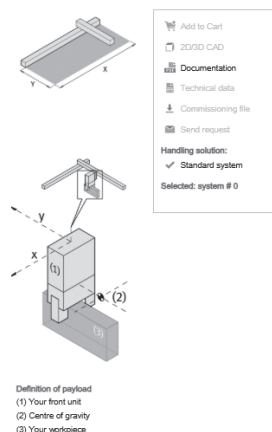
Drive system of the axis  
X: Electric: several positions  
Y: Electric: several positions

Required working stroke  
X:  mm  
Y:  mm

##### Payload

Sum of the weight of the front unit and the workpiece  
 kg

Distance from the centre of the load  
X:  mm  
Y:  mm  
Z:  mm



Key features

Configurator: Handling Guide Online (HGO)

Result of calculation

You will be offered a selection of systems that have been calculated based on the application data you entered.

The following are available immediately:

- CAD model
- Datasheet of the selected system
- Price information

Result of calculation

Select the appropriate system and continue with the configuration:

Selection Filter

| No.                                 | System series | System workload i | Repetition accuracy (+/-) | Your price |
|-------------------------------------|---------------|-------------------|---------------------------|------------|
| <input checked="" type="checkbox"/> | 1 YXCR-1      | 91 %              | 0.11 mm                   |            |
| <input type="checkbox"/>            | 3 YXCR-2      | 46 %              | 0.11 mm                   |            |
| <input type="checkbox"/>            | 5 YXCR-2      | 52 %              | 0.11 mm                   |            |
| <input type="checkbox"/>            | 7 YXCR-2      | 32 %              | 0.11 mm                   |            |
| <input type="checkbox"/>            | 26 YXMR-2     | 48 %              | 0.1 mm                    |            |

Requires additional motion controller for interpolation ( e.g. CPX-E-CEC-M1-... )

---

3D gantry YXCR-1: #1

|                           |                                    |                                    |                                       |
|---------------------------|------------------------------------|------------------------------------|---------------------------------------|
| Drive module              | X module: toothed belt axis EGC-50 | Y module: toothed belt axis EGC-50 | Z module: Electric mini slide EGSL-35 |
| Kinematics type           | Serial kinematics                  | Serial kinematics                  | Serial kinematics                     |
| Stroke                    | 200 mm                             | 200 mm                             | 50 mm                                 |
| Repetition accuracy (+/-) | 0.08 mm                            | 0.08 mm                            | 0.02 mm                               |
| Gear unit                 | 5:1                                | 5:1                                | Without                               |
| Type of motor             | Servo motor EMME-AS                | Servo motor EMME-AS                | Servo motor EMME-AS                   |
| Motor position            | Right                              | Right                              | Top                                   |

Data protection 

Back Continue

System overview

You will be given an overview of the complete system.

You will also have the following options:

- Request price
- Send request
- Add to basket

Your handling solution

Your selected system overview:

Exemplary representation

Update CAD Preview

Your system ID: C1374165

Your next step:

Show price

Send request

Add to basket

Your entries

Your system

Your options

| Feature                    | Value                       |
|----------------------------|-----------------------------|
| Handling type              | 2D gantry                   |
| Payload                    | 2 kg                        |
| Drive system of the X-axis | Electric: several positions |
| Drive system of the Y-axis | Electric: several positions |

Data protection 

Back

## Key features

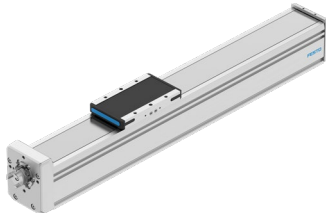
### Standard components within the handling system

The handling system comprises a number of tried-and-tested standard components from Festo. Different components are used depending on the configuration. The single axes installed will be displayed in the configurator HGO on the "Result of calculation" page.

### Drives/axes

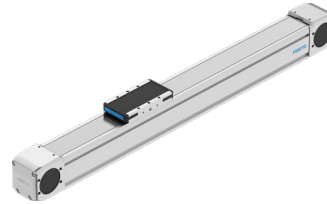
#### X-axis

##### Ball screw axis ELGD-BS



- Electrical
- Profile with a square cross section and sturdy drive elements for high feed forces
- Abrasion-free and clean surface protects workpieces from particles
- Various screw pitches

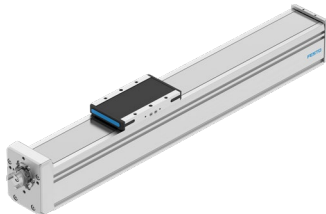
##### Toothed belt axis ELGD-TB



- Electrical
- Profile with a square cross section and sturdy drive elements for high feed forces
- Abrasion-free and clean surface protects workpieces from particles
- High dynamic response

#### Y-axis

##### Ball screw axis ELGD-BS



- Electrical
- Profile with a square cross section and sturdy drive elements for high feed forces
- Abrasion-free and clean surface protects workpieces from particles
- Various screw pitches

Key features

| Possible axis combinations <sup>1)</sup> |                                                                                                                             |                                                                                  |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| Size                                     | X-module                                                                                                                    | Y-module                                                                         |
| YXCE-2-D                                 | <ul style="list-style-type: none"><li>• Toothed belt axis<br/>ELGD-TB-80</li><li>• Ball screw axis<br/>ELGD-BS-80</li></ul> | <ul style="list-style-type: none"><li>• Ball screw axis<br/>ELGD-BS-60</li></ul> |

1) Drive package depends on the configuration selected.

## Key features

### Standard components within the handling system

The handling system comprises a number of tried-and-tested standard components from Festo. Different components are used depending on the configuration. You can alter the scope and design of the drive package in the configurator HGO on the "System configuration" page.

### Motors and controllers

#### Servo motors EMMT-AS



- Dynamic, brushless, permanently excited servo motor
- Digital absolute displacement encoder in single-turn or multi-turn version
- Simple connection technology (OCP: one cable plug) – hybrid cable: motor cable and connecting cable for supply and encoder in one
- Plug can be rotated 310°
- With optional brake

#### Servo motors EMMB-AS



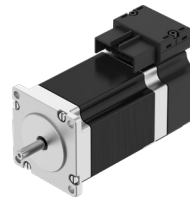
- Dynamic, brushless, permanently excited servo motor
- Digital absolute displacement encoder in single-turn or multi-turn version
- Optimised connection technology
- With optional brake

#### Stepper motors EMMT-ST



- Two-phase hybrid technology
- Digital absolute displacement encoder in single-turn or multi-turn version
- Simple connection technology (OCP: one cable plug) – hybrid cable: motor cable and connecting cable for supply and encoder in one
- Plug can be rotated 310°
- With optional brake

#### Stepper motors EMMB-ST



- Two-phase hybrid technology
- Digital absolute displacement encoder in single-turn or multi-turn version
- Simple connection technology (OCP: one cable plug) – hybrid cable: motor cable and connecting cable for supply and encoder in one
- Can be positioned at the front or back
- With optional brake

### Key features

#### Standard components within the handling system

The handling system comprises a number of tried-and-tested standard components from Festo. Different components are used depending on the configuration. You can alter the scope and design of the drive package in the configurator HGO on the "System configuration" page.

#### Servo drive CMMT-AS, for servo motor



- Universal servo drive
- For synchronous servo motors
- Integrated EMC filters
- Integrated brake chopper
- Integrated braking resistor
- Position controller
- Speed controller
- Force controller
- Range of control functions

##### Options:

- Safety function: safe torque off (STO)/category 4, Performance Level e
- Safe stop 1 (SS1)
- Safe brake control (SBC) up to SIL3/ category 3, Performance Level e

- Bus protocols
  - EtherCAT®
  - PROFINET RT/IRT
  - EtherNet/IP
  - Modbus TCP

#### Servo drive CMMT-ST, for stepper motor



- Servo drive for operating stepper motors and brushless direct current motors
- Options for point-to-point and interpolating motion and for precise positioning
- Primary voltage from 24 ... 48 V DC
- Position controller
- Speed controller
- Force controller
- Range of control functions

##### Options:

- Safety function: safe torque off (STO)/category 3, Performance Level e
- Safe stop 1 time control (SS1-t)

- Bus protocols
  - EtherCAT®
  - PROFINET RT/IRT
  - EtherNet/IP
  - Modbus TCP

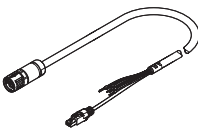
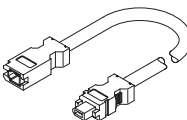
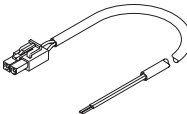
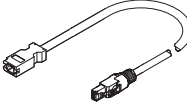
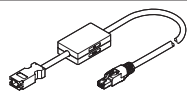
## Ordering data – Accessories

### Module/motor combinations

We recommend that the three-dimensional gantry is operated with the suggested motors from Festo. These precisely match the mechanical system. When using third-party motors, it is essential that the technical limits are observed.

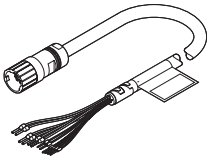
| Module                | Motor               |                |                  |                  |
|-----------------------|---------------------|----------------|------------------|------------------|
|                       | Servo motor         |                | Stepper motor    |                  |
| <b>X-module</b>       |                     |                |                  |                  |
| EHMX-AS-ELGD-80-TB-KF | EMMT-AS-60-L-LS-... | EMMB-AS-60-04- | EMMT-ST-87-S-... | EMMB-ST-87-S-... |
|                       | EMMT-AS-60-L-HS-... | –              | –                | –                |
| EHMX-AS-ELGD-80-BS-KF | EMMT-AS-60-L-LS-... | EMMB-AS-60-04- | EMMT-ST-87-S-... | EMMB-ST-87-S-... |
|                       | EMMT-AS-60-L-HS-... | –              | –                | –                |
|                       | EMMT-AS-80-M-LS-... | –              | –                | –                |
|                       | EMMT-AS-80-M-HS-... | –              | –                | –                |
| <b>Y-module</b>       |                     |                |                  |                  |
| EHMY-AS-ELGD-60-BS-KF | EMMT-AS-60-M-LS-... | EMMB-AS-60-04  | EMMT-ST-57-M-... | EMMB-ST-57-M-... |
|                       | EMMT-AS-60-M-HS-... | –              | –                | –                |

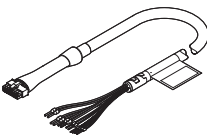
## Ordering data – Accessories

| Ordering data                                                                      |                                            | Description                           | Cable length<br>[m] | Part no.                       | Type |
|------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------------|---------------------|--------------------------------|------|
| For servo motor EMMT-AS                                                            |                                            |                                       |                     |                                |      |
| Motor cable                                                                        |                                            |                                       |                     |                                |      |
|    | • For EMMT-AS-60/80-...-R2... with CMMT-AS | 2.5                                   | 5251374             | NEBM-M23G15-EH-2.5-Q7N-R3LEG14 |      |
|                                                                                    |                                            | 5                                     | 5251375             | NEBM-M23G15-EH-5-Q7N-R3LEG14   |      |
|                                                                                    |                                            | 7.5                                   | 5251376             | NEBM-M23G15-EH-7.5-Q7N-R3LEG14 |      |
|                                                                                    |                                            | 10                                    | 5251377             | NEBM-M23G15-EH-10-Q7N-R3LEG14  |      |
|                                                                                    |                                            | 15                                    | 5251378             | NEBM-M23G15-EH-15-Q7N-R3LEG14  |      |
|                                                                                    |                                            | 20                                    | 5251379             | NEBM-M23G15-EH-20-Q7N-R3LEG14  |      |
|                                                                                    |                                            | 2.5                                   | 5251381             | NEBM-M23G15-EH-2.5-Q9N-R3LEG14 |      |
|                                                                                    |                                            | 5                                     | 5251382             | NEBM-M23G15-EH-5-Q9N-R3LEG14   |      |
|                                                                                    |                                            | 7.5                                   | 5251383             | NEBM-M23G15-EH-7.5-Q9N-R3LEG14 |      |
|                                                                                    |                                            | 10                                    | 5251384             | NEBM-M23G15-EH-10-Q9N-R3LEG14  |      |
|                                                                                    |                                            | 15                                    | 5251385             | NEBM-M23G15-EH-15-Q9N-R3LEG14  |      |
|                                                                                    |                                            | 20                                    | 5251386             | NEBM-M23G15-EH-20-Q9N-R3LEG14  |      |
| Ordering data                                                                      |                                            |                                       |                     |                                |      |
|                                                                                    |                                            | Description                           | Cable length<br>[m] | Part no.                       | Type |
| For servo motor EMMB-AS                                                            |                                            |                                       |                     |                                |      |
| Motor cable                                                                        |                                            |                                       |                     |                                |      |
|   | • For EMMB-AS-40/60/80 with CMMT-AS        | 2.5                                   | 5219197             | NEBM-H6G4-E-2.5-Q13N-LE4       |      |
|                                                                                    |                                            | 5                                     | 5219198             | NEBM-H6G4-E-5-Q13N-LE4         |      |
|                                                                                    |                                            | 7.5                                   | 5219199             | NEBM-H6G4-E-7.5-Q13N-LE4       |      |
|                                                                                    |                                            | 10                                    | 5219200             | NEBM-H6G4-E-10-Q13N-LE4        |      |
|                                                                                    |                                            | 15                                    | 8097203             | NEBM-H6G4-E-15-Q13N-LE4        |      |
|                                                                                    |                                            | 20                                    | 8097204             | NEBM-H6G4-E-20-Q13N-LE4        |      |
| Encoder cable                                                                      |                                            |                                       |                     |                                |      |
|  | • For EMMB-AS-40/60/80 with CMMT-AS        | 2.5                                   | 5219213             | NEBM-REG6-E-2.5-Q14N-REG6      |      |
|                                                                                    |                                            | 5                                     | 5219214             | NEBM-REG6-E-5-Q14N-REG6        |      |
|                                                                                    |                                            | 7.5                                   | 5219215             | NEBM-REG6-E-7.5-Q14N-REG6      |      |
|                                                                                    |                                            | 10                                    | 5219216             | NEBM-REG6-E-10-Q14N-REG6       |      |
|                                                                                    |                                            | 15                                    | 8097200             | NEBM-REG6-E-15-Q14N-REG6       |      |
|                                                                                    |                                            | 20                                    | 8097201             | NEBM-REG6-E-20-Q14N-REG6       |      |
| Connecting cable for brake                                                         |                                            |                                       |                     |                                |      |
|  | • For EMMB-AS-40/60/80 with CMMT-AS        | 2.5                                   | 5219205             | NEBM-H7G2-E-2.5-Q14N-LE2       |      |
|                                                                                    |                                            | 5                                     | 5219206             | NEBM-H7G2-E-5-Q14N-LE2         |      |
|                                                                                    |                                            | 7.5                                   | 5219207             | NEBM-H7G2-E-7.5-Q14N-LE2       |      |
|                                                                                    |                                            | 10                                    | 5219208             | NEBM-H7G2-E-10-Q14N-LE2        |      |
|                                                                                    |                                            | 15                                    | 8097206             | NEBM-H7G2-E-15-Q14N-LE2        |      |
|                                                                                    |                                            | 20                                    | 8097207             | NEBM-H7G2-E-20-Q14N-LE2        |      |
| Adapter for encoder cable (absolutely essential)                                   |                                            |                                       |                     |                                |      |
|  | • For EMMB-AS-40/60/80 with CMMT-AS        | For single-turn version with CMMT-AS  |                     |                                |      |
|                                                                                    |                                            | 0.5                                   | 8097197             | NEFM-REG6-K-0.5-R3G8           |      |
|  | • For EMMB-AS-40/60/80 with CMMT-AS        | For multi-turn version with CMMT-AS1) |                     |                                |      |
|                                                                                    |                                            | 0.5                                   | 8097195             | NEFM-REG6-K-0.5-B-R3G8         |      |

1) The required battery is not included in the scope of delivery

## Ordering data – Accessories

| Designation                                                                       | Description                       | Cable length [m] | Part no. | Type                        |
|-----------------------------------------------------------------------------------|-----------------------------------|------------------|----------|-----------------------------|
| <b>For stepper motor EMMT-ST</b>                                                  |                                   |                  |          |                             |
| <b>Motor cable</b>                                                                |                                   |                  |          |                             |
|  | • For EMMT-ST-42-... with CMMT-ST | 2.5              | 8181670  | NEBM-M17G12-EH-2.5-Q6N-LE12 |
|                                                                                   |                                   | 5                | 8181668  | NEBM-M17G12-EH-5-Q6N-LE12   |
|                                                                                   |                                   | 7                | 8190096  | NEBM-M17G12-EH-7.5-Q6N-LE12 |
|                                                                                   |                                   | 10               | 8195457  | NEBM-M17G12-EH-10-Q6N-LE12  |
|                                                                                   |                                   | 15               | 8214679  | NEBM-M17G12-EH-15-Q7N-LE12  |
|                                                                                   |                                   | 20               | 8214680  | NEBM-M17G12-EH-20-Q7N-LE12  |
|                                                                                   | • For EMMT-ST-57-... with CMMT-ST | 2.5              | 8181670  | NEBM-M17G12-EH-2.5-Q6N-LE12 |
|                                                                                   |                                   | 5                | 8181668  | NEBM-M17G12-EH-5-Q6N-LE12   |
|                                                                                   |                                   | 7                | 8195460  | NEBM-M17G12-EH-7.5-Q7N-LE12 |
|                                                                                   |                                   | 10               | 8195461  | NEBM-M17G12-EH-10-Q7N-LE12  |
|                                                                                   |                                   | 15               | 8214683  | NEBM-M17G12-EH-15-Q9N-LE12  |
|                                                                                   |                                   | 20               | 8214684  | NEBM-M17G12-EH-20-Q9N-LE12  |
|                                                                                   | • For EMMT-ST-87-... with CMMT-ST | 2.5              | 8195458  | NEBM-M17G12-EH-2.5-Q7N-LE12 |
|                                                                                   |                                   | 5                | 8195459  | NEBM-M17G12-EH-5-Q7N-LE12   |
|                                                                                   |                                   | 7                | 8214681  | NEBM-M17G12-EH-7.5-Q9N-LE12 |
|                                                                                   |                                   | 10               | 8214682  | NEBM-M17G12-EH-10-Q9N-LE12  |
|                                                                                   |                                   | 15               | 8214683  | NEBM-M17G12-EH-15-Q9N-LE12  |
|                                                                                   |                                   | 20               | 8214684  | NEBM-M17G12-EH-20-Q9N-LE12  |

| Designation                                                                         | Description                       | Cable length [m] | Part no. | Type                        |
|-------------------------------------------------------------------------------------|-----------------------------------|------------------|----------|-----------------------------|
| <b>For stepper motor EMMB-ST</b>                                                    |                                   |                  |          |                             |
| <b>Motor cable</b>                                                                  |                                   |                  |          |                             |
|  | • For EMMB-ST-42-... with CMMT-ST | 2.5              | 8181675  | NEBM-L5G14-EH-2.5-Q6N-LE12  |
|                                                                                     |                                   | 5                | 8181664  | NEBM-L5G14-EH-5-Q6N-LE12    |
|                                                                                     |                                   | 7                | 8181676  | NEBM-L5G14-EH-7.5-Q6N-LE12  |
|                                                                                     |                                   | 10               | 8181672  | NEBM-L5G14-EH-10-Q6N-LE12   |
|                                                                                     |                                   | 15               | 8214685  | NEBM-L5G14-EH-15-Q6N-LE12   |
|                                                                                     |                                   | 20               | 8214686  | NEBM-L5G14-EH-20-Q6N-LE12   |
|                                                                                     | • For EMMB-ST-57-... with CMMT-ST | 2.5              | 8181677  | NEBM-L10G14-EH-2.5-Q6N-LE12 |
|                                                                                     |                                   | 5                | 8181667  | NEBM-L10G14-EH-5-Q6N-LE12   |
|                                                                                     |                                   | 7                | 8181674  | NEBM-L10G14-EH-7.5-Q7N-LE12 |
|                                                                                     |                                   | 10               | 8181673  | NEBM-L10G14-EH-10-Q7N-LE12  |
|                                                                                     |                                   | 15               | 8214689  | NEBM-L10G14-EH-15-Q9N-LE12  |
|                                                                                     |                                   | 20               | 8214690  | NEBM-L10G14-EH-20-Q9N-LE12  |
|                                                                                     | • For EMMB-ST-87-... with CMMT-ST | 2.5              | 8181666  | NEBM-L10G14-EH-2.5-Q7N-LE12 |
|                                                                                     |                                   | 5                | 8181671  | NEBM-L10G14-EH-5-Q7N-LE12   |
|                                                                                     |                                   | 7                | 8214687  | NEBM-L10G14-EH-7.5-Q9N-LE12 |
|                                                                                     |                                   | 10               | 8214688  | NEBM-L10G14-EH-10-Q9N-LE12  |
|                                                                                     |                                   | 15               | 8214689  | NEBM-L10G14-EH-15-Q9N-LE12  |
|                                                                                     |                                   | 20               | 8214690  | NEBM-L10G14-EH-20-Q9N-LE12  |

## Possible cable and tube lengths

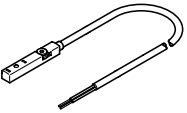
- Cables and tubing are selected so that the length specified when ordering will be the minimum connection length from the energy chain output.
- Cables and tubing are only available in fixed lengths as stated in the table below. This can mean that the cable plugs of the different cables do not end at the same point.

| Length        | 2 m | 5 m | 7 m | 10 m |
|---------------|-----|-----|-----|------|
| Motor cable   | ■   | ■   | ■   | ■    |
| Encoder cable | ■   | ■   | ■   | ■    |

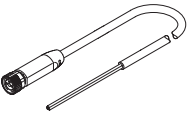
## Ordering data – Accessories

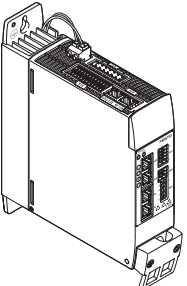
## Standard components within the handling system

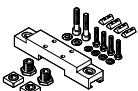
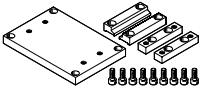
The handling system comprises a number of tried-and-tested standard components from Festo. Different components are used depending on the configuration. You can alter the type and scope of the accessories in the configurator HGO on the "System configuration" page.

| Designation                                                                                | Description                     | Cable length [m] | Part no. | Type                           |
|--------------------------------------------------------------------------------------------|---------------------------------|------------------|----------|--------------------------------|
| <b>Proximity switch (inductive) for sensing the position of the slide on the Y-/Z-axis</b> |                                 |                  |          |                                |
|            | <b>Cable with open end</b>      |                  |          |                                |
|                                                                                            | • For toothed belt axis ELGD-TB | PNP, N/C contact | 7.5      | 551391 SIES-8M-PO-24V-K-7.5-OE |
|                                                                                            | • For ball screw axis ELGD-BS   | PNP, N/O contact | 7.5      | 551386 SIES-8M-PS-24V-K-7.5-OE |
|                                                                                            | • For DC voltage                | NPN, N/C contact | 7.5      | 551401 SIES-8M-NO-24V-K-7.5-OE |
|                                                                                            |                                 | NPN, N/O contact | 7.5      | 551396 SIES-8M-NS-24V-K-7.5-OE |

| Designation                                                                      | Description                                                                                                                                                                                        | Part no. | Type                     |
|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------------|
| <b>Distributor</b>                                                               |                                                                                                                                                                                                    |          |                          |
|  | <ul style="list-style-type: none"> <li>With the help of the distributor, all electrical signals such as for end-position sensing can be transferred</li> <li>– 2 individual connections</li> </ul> | 8005312  | NEDY-L2R1-V1-M8G3-N-M8G4 |

| Designation                                                                        | Description                                               | Cable length [m] | Part no. | Type                  |
|------------------------------------------------------------------------------------|-----------------------------------------------------------|------------------|----------|-----------------------|
| <b>Connecting cable</b>                                                            |                                                           |                  |          |                       |
|  | • Connection between distributor NEDY and control cabinet | 2.5              | 8078227  | NEBA-M8G4-U-2.5-N-LE4 |
|                                                                                    |                                                           | 5                | 8078228  | NEBA-M8G4-U-5-N-LE4   |
|                                                                                    |                                                           | 7.5              | 8215486  | NEBA-M8G4-U-7.5-N-LE4 |
|                                                                                    |                                                           | 10               | 8078229  | NEBA-M8G4-U-10-N-LE4  |
|                                                                                    |                                                           | 15               | 8215487  | NEBA-M8G4-U-15-N-LE4  |

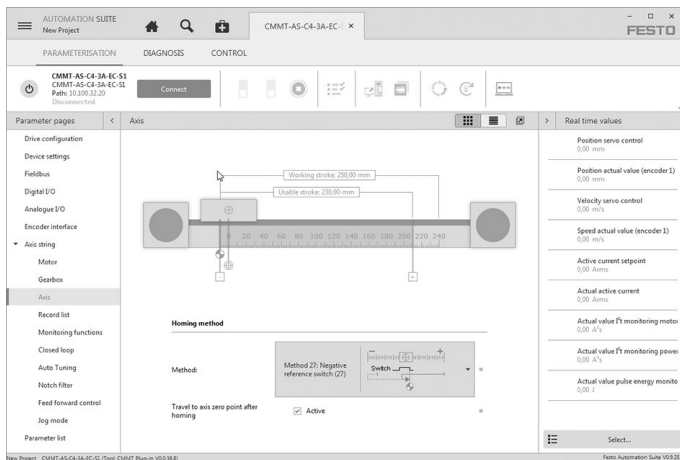
| Designation                                                                        | Description                                                                                                                                                                                                              |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Motor controller/servo drive</b>                                                |                                                                                                                                                                                                                          |
|  | <p>The accessories for the relevant motor controllers/servo drives can be found at:</p> <ul style="list-style-type: none"> <li><a href="http://www.festo.com/catalogue/cmmt">www.festo.com/catalogue/cmmt</a></li> </ul> |

| Designation                                                                        | Description                                                                                                                                                                                    | Part no.            | Type    |                 |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------|-----------------|
| Adjusting kit                                                                      |                                                                                                                                                                                                |                     |         |                 |
|  | <ul style="list-style-type: none"><li>Used to mount the handling system on the supporting surface</li><li>Can be used to easily compensate for any unevenness in the bearing surface</li></ul> | EHMX-...-ELGD-60-BS | 8234417 | EADC-E15-60-E24 |
|                                                                                    |                                                                                                                                                                                                | EHMX-...-ELGD-80-BS | 8234418 | EADC-E15-80-E24 |
|                                                                                    |                                                                                                                                                                                                |                     |         |                 |
| Mounting kit                                                                       |                                                                                                                                                                                                |                     |         |                 |
|  | <ul style="list-style-type: none"><li>Used to mount the handling system on the supporting surface</li><li>It is not height-adjustable</li></ul>                                                | EHMX-...-ELGD-60-BS | 8234422 | EAHM-E15-60-E24 |
|                                                                                    |                                                                                                                                                                                                | EHMX-...-ELGD-80-BS | 8234423 | EAHM-E15-80-E24 |
|                                                                                    |                                                                                                                                                                                                |                     |         |                 |

## Programming aid

### Festo Automation Suite

Parameterisation and programming software for electronic devices from Festo



- Parameterisation, programming and commissioning in a clear and user-friendly interface
- Optimum support for complex processes thanks to guided wizards (e.g. for commissioning, drive configuration, etc.)
- Fast access to the required documents and additional information
- Easy integration of electric drives in the controller programming