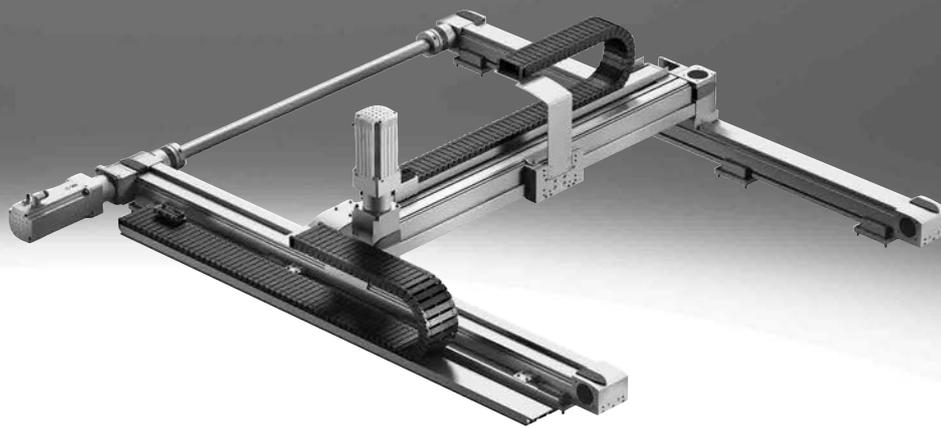


## Planar surface gantries

**FESTO**



## Key features

### At a glance

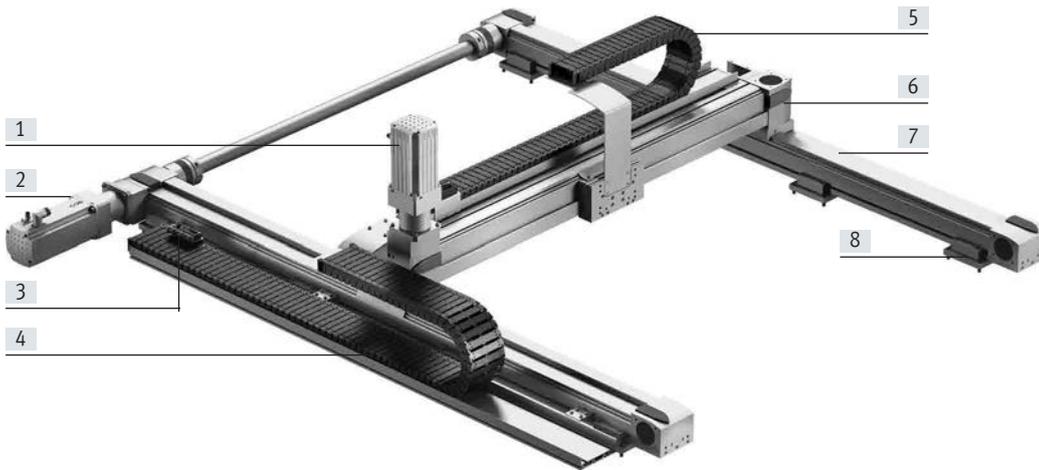
The planar surface gantry facilitates movement in 2D space. Depending on the requirements, the gantry is either composed of several axis modules (YXCF) or using the planar surface gantries EXCM or EXCH (YXMF). All of these are tried-and-tested components from Festo.

- Can be used universally for handling light to heavy workpieces or high payloads
- Especially suitable for very long strokes

- High mechanical rigidity and sturdy design
- Freely positionable/any intermediate positions

Range of application:

- For any movements in 2D space
- Very high requirements for precision and/or very heavy workpieces combined with long strokes



- [1] Servo motor for the Y-module
- [2] Servo motor for the X-module
- [3] Multi-pin plug distributor which collectively transfers all electrical signals such as for end-position sensing
- [4] Energy chain for the X-module
- [5] Energy chain for the Y-module
- [6] Y-axis
- [7] X-axis
- [8] Profile mounting/adjusting kit

### Description of the modules

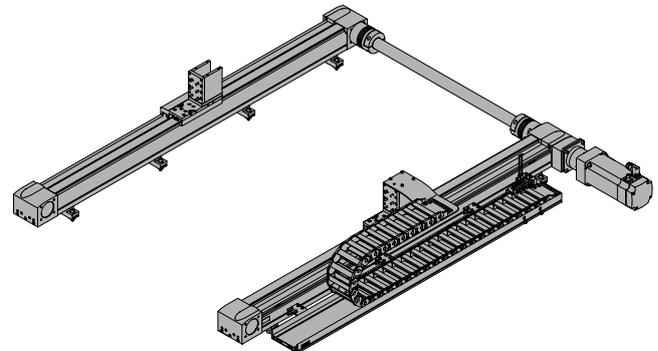
#### X-module

Structure:

The X-module EHMx comprises two parallel toothed belt axes which are connected by a connecting shaft. They are powered by a servo motor. Adapters are mounted on the slides of the X-axes 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
- Multi-pin plug distributor for the proximity sensor (if sensor package has been selected)

Sample image:



## Key features

### Description of the modules

#### Y-module

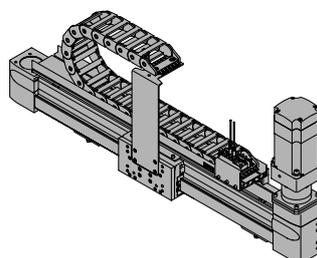
##### Structure:

The Y-module EHYM comprises a linear axis which is powered by a servo motor. 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
- Multi-pin plug distributor for the proximity sensor (if sensor package has been selected)

##### Sample image:



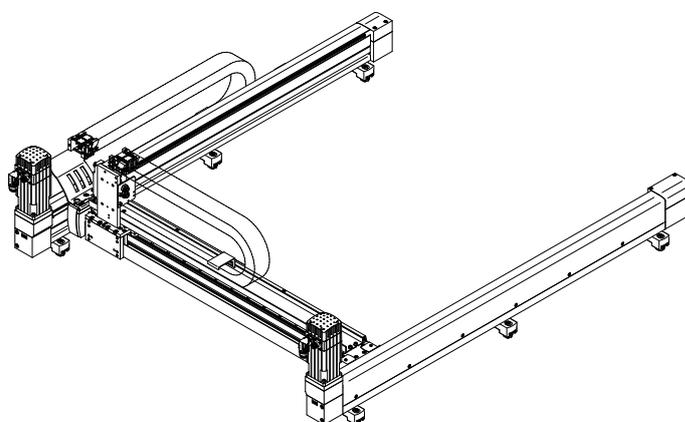
#### XY-module (EXCM, EXCH)

##### Structure::

A slide is moved in a 2-dimensional space (X-axis/Y-axis) via a toothed belt. The system is powered by two fixed motors that are coupled to the toothed belt. The belt is guided via pulleys so that the slide can move to any position in a working space when the motors are actuated.

When using attachment components, additional processes can be carried out by independent Z-axes.

##### Sample image:



#### Dispatch options

##### Fully assembled:

The planar surface gantry is fully assembled. All cables 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 planar surface gantry is delivered partially assembled. This means that both axis modules (X-/Y-axis) are assembled, each with optional motors. The partially assembled system must be completed by the customer. Help can be found in the assembly instructions provided.

Optional accessories (→ page 9) are enclosed.

Note flatness → table below.

System overview <sup>1)</sup>							
Size	YXCF-1	YXCF-2	YXCF-3	YXCF-4	YXMF-1	YXMF-2	YXMF-3
Max. working stroke	X: 1900 mm Y: 1900 mm	X: 3000 mm Y: 2000 mm	X: 3000 mm Y: 2000 mm	X: 3000 mm Y: 2000 mm	X: 700 mm Y: 510 mm	X: 2000 mm Y: 1000 mm	X: 2500 mm Y: 1500 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 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:

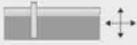
- Single-axis system
- 2D linear gantry
- Planar surface gantry
- 3-dimensional gantry

### Advantages:

- Automatic selection of all relevant components
- Automatic design and calculation of workload
- Quote created automatically
- CAD model available immediately
- Fully automated processing
- Fully assembled or unassembled systems can be ordered through the Online Shop
- Lots of possible options

### Selecting the handling solution

Select your handling system

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

Data protection

Continue

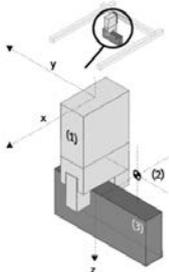
### Entering the application data

- 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	i X	<input type="text" value="200"/> mm
	i Y	<input type="text" value="200"/> mm
<b>Payload</b>		
Sum of the weight of the front unit and the workpiece	<input type="text" value="1"/> kg	
Distance from the centre of the load	i X	<input type="text"/> mm
	i Y	<input type="text"/> mm
	i Z	<input type="text"/> mm



Data protection

Back Continue

## Key features

### Configurator: Handling Guide Online (HGO)

#### Result of calculation

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

The following are available immediately:

- CAD model
- Data sheet 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 YXMF-1	75 %	0.05 mm	
<input type="checkbox"/>	3 YXCF-1	22 %	0.11 mm	
<input type="checkbox"/>	5 YXCF-2	72 %	0.11 mm	
<input type="checkbox"/>	7 YXCF-2	75 %	0.11 mm	
<input type="checkbox"/>	9 YXCF-2	9 %	0.11 mm	

#### 2D gantry YXMF-1: #1

Drive module	XY module: Planar surface gantry EXCM-30
Kinematics type	Parallel kinematics
Stroke	100 mm/120 mm
Repetition accuracy (+/-)	-
Gear unit	Without
Type of motor	Stepper motor EMMS-ST
Motor position	Underneath
Motor controller	CMXH-ST2

Data protection

Back Continue

#### System overview

You will be given an overview of the whole 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

#### Toothed belt axis EGC-TB-KF



- Electric
- Rigid, closed profile
- Recirculating ball bearing guide for high loads and torques
- High dynamic response and minimum vibration

#### Y-axis

#### Toothed belt axis EGC-TB-KF



- Electric
- Rigid, closed profile
- Recirculating ball bearing guide for high loads and torques
- High dynamic response and minimum vibration

#### Toothed belt axis EGC-HD-TB



- Electric
- Flat drive unit with rigid, closed profile
- Duo guide rail
- For maximum loads and torques, high feed forces and speeds and long service life

### Possible axis combinations<sup>1)</sup>

Size	X-module	Y-module
YXCF-1	<ul style="list-style-type: none"> <li>• Toothed belt axis EGC-50-TB-KF</li> </ul>	<ul style="list-style-type: none"> <li>• Toothed belt axis EGC-50-TB-KF</li> </ul>
YXCF-2	<ul style="list-style-type: none"> <li>• Toothed belt axis EGC-80-TB-KF</li> </ul>	<ul style="list-style-type: none"> <li>• Toothed belt axis EGC-80-TB-KF</li> <li>• Toothed belt axis with heavy-duty guide EGC-HD-125-TB</li> </ul>
YXCF-3	<ul style="list-style-type: none"> <li>• Toothed belt axis EGC-120-TB-KF</li> </ul>	<ul style="list-style-type: none"> <li>• Toothed belt axis EGC-120-TB-KF</li> <li>• Toothed belt axis with heavy-duty guide EGC-HD-160-TB</li> </ul>
YXCF-4	<ul style="list-style-type: none"> <li>• Toothed belt axis EGC-185-TB-KF</li> </ul>	<ul style="list-style-type: none"> <li>• Toothed belt axis EGC-185-TB-KF</li> <li>• Toothed belt axis with heavy-duty guide EGC-HD-220-TB</li> </ul>
YXMF-1	<ul style="list-style-type: none"> <li>• Planar surface gantry EXCM-30</li> </ul>	<ul style="list-style-type: none"> <li>• Planar surface gantry EXCM-30</li> </ul>
YXMF-2	<ul style="list-style-type: none"> <li>• Planar surface gantry EXCM-40, EXCH-40</li> </ul>	<ul style="list-style-type: none"> <li>• Planar surface gantry EXCM-40, EXCH-40</li> </ul>
YXMF-3	<ul style="list-style-type: none"> <li>• Planar surface gantry EXCH-60</li> </ul>	<ul style="list-style-type: none"> <li>• Planar surface gantry EXCH-60</li> </ul>

1) Drive package depends on 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 EMMS-AS



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

#### Servo motors EMME-AS



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

#### Stepper motors EMMS-ST



- 2-phase hybrid technology
- Step angle 1.8°
- With optional brake

#### Gear unit EMGA



- Low-backlash planetary gear
- Gear ratio  
i = 3 and 5
- Life-time lubrication

## 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.

#### Motor controllers CMMP-AS for servo motor



- Complete integration of all components for controller and power section, including USB interface
- Integrated brake chopper
- Integrated EMC filters
- Automatic activation for a brake

#### Options:

- Safety function: safe torque off (STO)/category 4, Performance Level e
- Additional digital inputs and outputs

- Bus protocols
  - CANopen
  - DeviceNet
  - EtherCAT
  - EtherNet/IP
  - PROFIBUS DP
  - PROFINET

#### Motor controller CMMS-ST for stepper motor



- Complete integration of all components for controller and power section, including RS232 interface
- Integrated brake chopper
- Integrated EMC filters
- Automatic activation for a brake

#### Options:

- Safety function: safe torque off (STO)/category 3, Performance Level d

- Bus protocols
  - CANopen
  - DeviceNet
  - PROFIBUS DP

#### Controller CMXH-ST2, for stepper motor



- The controller controls two stepper motors in servo mode which drive an H-shaped recirculating toothed belt. The toothed belt moves a slide whose position is calculated by the controller using the encoder signals from the motors

#### Options:

- Safety function: safe torque off (STO)/category 3, Performance Level e

- Bus protocols
  - I/O interface
  - CAN interface
  - Ethernet TCP/IP

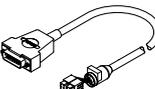
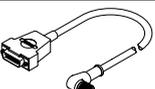
## Ordering data – Accessories

**Module/motor combinations**

We recommend that the planar surface gantry is operated with the proposed 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	Servo motor	Stepper motor
<b>X-module</b>			
EHM-EGC-50-TB-KF	–	EMME-AS-40-M-LV-...	EMMS-ST-42-S-...
EHM-EGC-80-TB-KF	EMMS-AS-70-M-LS-...	EMME-AS-60-M-LS-...	EMMS-ST-57-S-...
EHM-EGC-120-TB-KF	EMMS-AS-100-M-HS-...	EMME-AS-80-S-LS-...	–
EHM-EGC-185-TB-KF	EMMS-AS-140-L-HS-...	–	–
<b>Y-module</b>			
EHY-...-EGC-50-TB-KF	–	EMME-AS-40-S-LV-...	EMMS-ST-57-M-...
EHY-...-EGC-80-TB-KF	EMMS-AS-55-S-LS-...	EMME-AS-60-M-LS-...	EMMS-ST-57-S-...
EHY-...-EGC-120-TB-KF	EMMS-AS-100-S-HS-...	EMME-AS-80-S-LS-...	EMMS-ST-87-S-...
EHY-...-EGC-125-TB-HD	EMMS-AS-70-S-LS-...	EMME-AS-60-M-LS-...	EMMS-ST-57-S-...
EHY-...-EGC-160-TB-HD	EMMS-AS-100-S-HS-...	EMME-AS-80-S-LS-...	EMMS-ST-87-S-...
EHY-...-EGC-185-TB-KF	EMMS-AS-100-M-HS-...	EMME-AS-100-M-HS-...	–
	EMMS-AS-140-S-HS-...		
EHY-...-EGC-220-TB-HD	EMMS-AS-100-M-HS-...	EMME-AS-100-M-HS-...	–
	EMMS-AS-140-S-HS-...		
<b>XY-module (EXCM, EXCH)</b>			
EXCM-30	–	–	EMMS-ST-42-S-...
EXCM-40	–	–	EMMS-ST-57-M-...
EXCH-40	EMMS-AS-70-M-LS-...	–	–
EXCH-40	EMMS-AS-100-S-HS-...	–	–
EXCH-60	EMMS-AS-100-M-HS-...	–	–
EXCH-60	EMMS-AS-140-S-HV-...	–	–

## Ordering data – Accessories

Designation	Description	Cable length	Part no.	Type
<b>For servo motor</b>				
<b>Motor cable<sup>1)</sup></b>				
	• For servo motor EMMS-AS-40-M-LS-...	5 m	550306	NEBM-T1G8-E-5-Q7N-LE8
		10 m	550307	NEBM-T1G8-E-10-Q7N-LE8
		15 m	550308	NEBM-T1G8-E-15-Q7N-LE8
<b>Motor cable<sup>1)</sup></b>				
	• For servo motor EMMS-AS-70-S-LS-.../ EMMS-AS-70-M-LS-.../EMMS-AS-100-S-HS-.../ EMMS-AS-100-M-HS-.../EMMS-AS-140-S-HS-.../ EMMS-AS-140-L-HS-...	5 m	550310	NEBM-M23G8-E-5-Q9N-LE8
		10 m	550311	NEBM-M23G8-E-10-Q9N-LE8
		15 m	550312	NEBM-M23G8-E-15-Q9N-LE8
<b>Encoder cable<sup>1)</sup></b>				
	• For servo motor EMMS-AS-40-M-LS-...	5 m	550314	NEBM-T1G8-E-5-N-S1G15
		10 m	550315	NEBM-T1G8-E-10-N-S1G15
		15 m	550316	NEBM-T1G8-E-15-N-S1G15
<b>Encoder cable<sup>1)</sup></b>				
	• For servo motor EMMS-AS-70-S-LS-.../ EMMS-AS-70-M-LS-.../EMMS-AS-100-S-HS-.../ EMMS-AS-100-M-HS-.../EMMS-AS-140-S-HS-.../ EMMS-AS-140-L-HS-...	5 m	550318	NEBM-M12W8-E-5-N-S1G15
		10 m	550319	NEBM-M12W8-E-10-N-S1G15
		15 m	550320	NEBM-M12W8-E-15-N-S1G15
<b>For stepper motor</b>				
<b>Motor cable<sup>1)</sup></b>				
	• For stepper motor EMMS-ST-42-S-.../EMMS-ST-57-M-...	2.5 m	1450369	NEBM-S1G9-E-2.5-Q5-LE6
		5 m	1450370	NEBM-S1G9-E-5-Q5-LE6
<b>Encoder cable<sup>1)</sup></b>				
	• For stepper motor EMMS-ST-42-S-.../EMMS-ST-57-M-... and motor controller CMMS-ST	5 m	550748	NEBM-M12G8-E-5-S1G9
		10 m	550749	NEBM-M12G8-E-10-S1G9
		15 m	550750	NEBM-M12G8-E-15-S1G9

1) Cables especially suitable for the motor controller and motor.  
Degree of protection to IP65 (in assembled state)

## Possible cable lengths

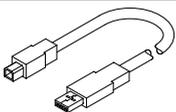
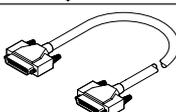
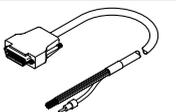
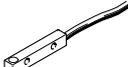
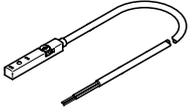
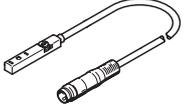
- Cables are selected so that the minimum length available from the energy chain output is the connection length specified when ordering.
- Cables are only available in fixed lengths as stated in the table below. This can mean that the cable plugs of the different cables do not end at the same point.

Length	2 m	5 m	7 m	10 m
Motor cable	■	■	■	■
Encoder cable	■	■	■	■
Multi-pin plug connecting cable	■	■	■	■

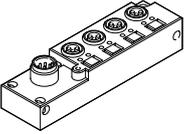
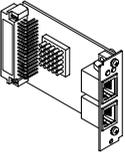
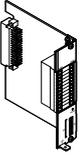
## Ordering data – Accessories

## Standard components within the handling system

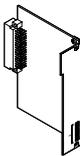
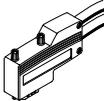
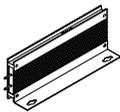
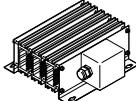
The handling system comprises a number of tried-and-tested standard components from Festo. Different components are used depending on the configuration. You can alter the scope and design of the accessories in the configurator HGO on the "System configuration" page.

Designation	Description	Cable length	Part no.	Type	
<b>Programming cable</b>					
	<ul style="list-style-type: none"> <li>High-speed USB 2.0 connecting cable</li> <li>For controller CMMP-AS</li> </ul>	1.8 m	1501332	NEBC-U1G4-K-1.8-N-U2G4	
	<ul style="list-style-type: none"> <li>For controller CMMS-ST</li> </ul>	2 m	160786	PS1-ZK11-NULLMODEM-2.0M	
<b>Control cable (for I/O interface to any controller)</b>					
	<ul style="list-style-type: none"> <li>For controller CMMP-AS, CMMS-ST</li> </ul>	2.5 m	552254	NEBC-S1G25-K-2.5-N-LE26	
	<ul style="list-style-type: none"> <li>For controller CMXH-ST2</li> </ul>	2.5 m	2052917	NEBC-S1H15-E-2.5-N-LE15	
<b>Proximity sensor for sensing the position of the slide on the X-axis</b>					
	<ul style="list-style-type: none"> <li>For EXCM-40, EXCH-40, EXCH-60</li> </ul>	N/O contact	–	150491	SIES-V3B-PS-S-L
	<ul style="list-style-type: none"> <li>For EXCM-40, EXCH-40, EXCH-60</li> </ul>	N/C contact	–	174552	SIES-Q8B-PO-K-L
<b>Proximity sensor (inductive) for sensing the position of the slide on the X-axis</b>					
	<b>Cable with open end</b>				
	<ul style="list-style-type: none"> <li>For toothed belt axis EGC-TB</li> </ul>	PNP, N/C contact	7.5 m	551391	SIES-8M-PO-24V-K-7.5-OE
	<ul style="list-style-type: none"> <li>For direct voltage</li> </ul>	PNP, N/O contact	7.5 m	551386	SIES-8M-PS-24V-K-7.5-OE
	Included if the "Festo sensor package" is selected:	NPN, N/C contact	7.5 m	551401	SIES-8M-NO-24V-K-7.5-OE
<ul style="list-style-type: none"> <li>2 pieces</li> </ul>	NPN, N/O contact	7.5 m	551396	SIES-8M-NS-24V-K-7.5-OE	
<b>Proximity sensor (inductive) for sensing the position of the slide on the Y-axis</b>					
	<b>Cable with plug</b>				
	<ul style="list-style-type: none"> <li>For toothed belt axis EGC-TB, EGC-HD-TB</li> </ul>	PNP, N/C contact	0.3	551392	SIES-8M-PO-24V-K-0.3-M8D
	<ul style="list-style-type: none"> <li>For direct voltage</li> </ul>	PNP, N/O contact	2.5	551393	SIES-8M-PO-24V-K-2.5-M8D
	Included if the "Festo sensor package" is selected:	PNP, N/O contact	0.3	551387	SIES-8M-PS-24V-K-0.3-M8D
	<ul style="list-style-type: none"> <li>2 pieces</li> </ul>	PNP, N/O contact	2.5	551388	SIES-8M-PS-24V-K-2.5-M8D
		NPN, N/C contact	0.3	551402	SIES-8M-NO-24V-K-0.3-M8D
		NPN, N/O contact	2.5	551403	SIES-8M-NO-24V-K-2.5-M8D
	NPN, N/O contact	0.3	551397	SIES-8M-NS-24V-K-0.3-M8D	
	NPN, N/O contact	2.5	551398	SIES-8M-NS-24V-K-2.5-M8D	

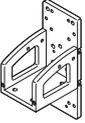
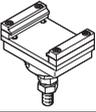
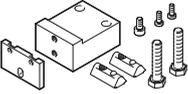
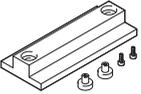
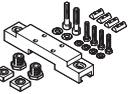
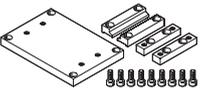
## Ordering data – Accessories

Designation	Description	Cable length	Part no.	Type
<b>Plug socket with cable</b>				
	<ul style="list-style-type: none"> <li>• Connection between multi-pin plug distributor and control cabinet</li> </ul>	5 m	525618	SIM-M12-8GD-5-PU
		10 m	570008	SIM-M12-8GD-10-PU
<b>Plugs</b>				
	<ul style="list-style-type: none"> <li>• For connection to the multi-pin plug distributor</li> </ul>	–	562024	NECU-S-M8G3-HX
<b>Multi-pin plug distributor</b>				
	<ul style="list-style-type: none"> <li>• With the help of the multi-pin plug distributor, electrical signals such as for end-position sensing can be transferred collectively</li> </ul> Options: <ul style="list-style-type: none"> <li>– 4 individual connections</li> <li>– 6 individual connections</li> </ul>	–	574586	NEDU-L4R1-M8G3L-M12G8
			574587	NEDU-L6R1-M8G3L-M12G8
<b>Interface</b>				
	For additional I/Os		567855	CAMC-D-8E8A
	For DeviceNet		547451	CAMC-DN
	For EtherCAT		567856	CAMC-EC
	For EtherNet/IP		1911917	CAMC-F-EP
	For PROFINET RT		1911916	CAMC-F-PN
	For PROFIBUS DP		547450	CAMC-PB
<b>Safety module</b>				
	For safe torque off (STO)		1501330	CAMC-G-S1

## Ordering data – Accessories

Designation	Description	Part no.	Type
<b>Switch module</b>			
	If the safety module CAMC-G-S1 is not used, the switch module is absolutely essential for operating the motor controller CMMP-AS-...-M3	1501329	CAMC-DS-M1
<b>Bus connection</b>			
	For DeviceNet interface	525635	FBSD-KL-2X5POL
<b>Plugs</b>			
	For CANopen interface	533783	FBS-SUB-9-WS-CO-K
	For PROFIBUS interface	533780	FBS-SUB-9-WS-PB-K
<b>Braking resistor</b>			
	<ul style="list-style-type: none"> <li>For EXCH-40</li> <li>Essential in the case of a vertical mounting position</li> </ul>	2882342	CACR-LE2-50-W500
	<ul style="list-style-type: none"> <li>For EXCH-60</li> <li>Essential in the case of a vertical mounting position</li> </ul>	2882343	CACR-KL2-40-W2000

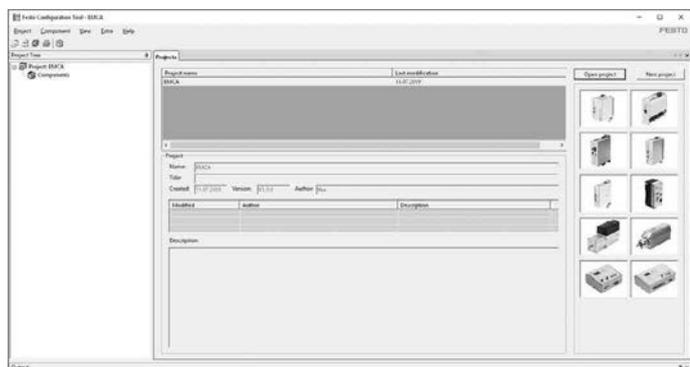
## Ordering data – Accessories

Designation	Description	Part no.	Type
<b>Mounting kit</b>			
	<ul style="list-style-type: none"> <li>Mounting kit for the energy chain and a Z-axis, such as EGSL, DGSL</li> </ul>	<ul style="list-style-type: none"> <li>EXCM-30</li> </ul>	4070088 EAHT-E9-FB-3D-30
<b>Adjusting kit</b>			
	<ul style="list-style-type: none"> <li>Height-adjustable mounting kit</li> </ul>	<ul style="list-style-type: none"> <li>EXCM-30</li> </ul>	4070088 EADC-E11-30
<b>Sensor mounting</b>			
	<ul style="list-style-type: none"> <li>For homing in combination with third-party motors</li> </ul>	<ul style="list-style-type: none"> <li>EXCM-30</li> </ul>	4070088 EAPR-E11-30
<b>Sensor mounting</b>			
	<ul style="list-style-type: none"> <li>For mounting the proximity sensors SIES-Q8B, SIES-V3B on the X-axis</li> </ul>	<ul style="list-style-type: none"> <li>EXCM-40, EXCH-40</li> </ul>	2536353 EAPR-E12-40
		<ul style="list-style-type: none"> <li>EXCH-60</li> </ul>	2478805 EAPR-E12-60
<b>Energy chain</b>			
	<ul style="list-style-type: none"> <li>For routing the cables for the Z-axis</li> </ul>	<ul style="list-style-type: none"> <li>EXCM-30</li> </ul>	8059999 EADH-U-3D-30
			8060324 EADH-U-3D-40
<b>Connector set</b>			
	<ul style="list-style-type: none"> <li>Holder for mounting the energy chain</li> </ul>	<ul style="list-style-type: none"> <li>EXCM-30</li> </ul>	8060325 EAHT-AE-3D-30
			8060326 EAHT-AE-3D-40
<b>Adjusting tool</b>			
	<ul style="list-style-type: none"> <li>For aligning and checking the flatness of the planar surface gantry</li> </ul>		3197697 EADT-W-E12
<b>Adjusting kit</b>			
	<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 supporting surface</li> </ul>	EHMY-...-EGC-50-TB-KF	8047565 EADC-E15-50-E7
		EHMY-...-EGC-80-TB-KF	8047566 EADC-E15-80-E7
		EHMY-...-EGC-120-TB-KF	8047567 EADC-E15-120-E7
		EHMY-...-EGC-185-TB-KF	8047568 EADC-E15-185-E7
<b>Profile mounting</b>			
	<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>		–

## Programming aid

### FCT software – Festo Configuration Tool

Software platform for electric drives from Festo (→ [www.festo.com/sp/fct](http://www.festo.com/sp/fct))



- All drives in a system can be managed and saved in a common project
- Project and data management for all supported types of equipment
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- Universal mode of operation for all drives
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