# **FESTO**



### 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 triedand-tested components from Festo.

- Can be used universally for light to very heavy workpieces or high payloads
- Especially suitable for very long strokes
- High mechanical rigidity and sturdy design
- Freely positionable/any intermediate positions

### Range of applications:

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

### Design:

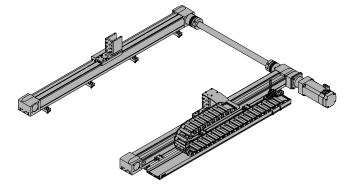
Depending on the configuration, the X-module comprises either two drive axes joined together by a connecting shaft (YXCF) or one drive axis + separate guide axis (YXCF-B).

They are powered by a servo or stepper 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 (optional)
- Multi-pin plug distributor for proximity switch (if a sensor package has been selected)

### Sample image:



### Description of the modules

Y-module

### Design:

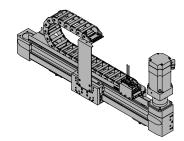
The Y-module EHMY comprises a linear axis which is powered by a servo or stepper motor.

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

### Sample image:



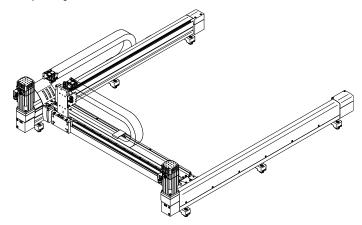
### XY-module (EXCM, EXCH)

### Design:

A slide is moved in a two-dimensional space (X-axis/Y-axis) via a toothed belt. The system is powered by two fixed motors. The motors are coupled to the toothed belt. The belt is guided by 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 10) 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	X: 3000 mm	X: 3000 mm	X: 3000 mm	X: 700 mm	X: 2000 mm	X: 2500 mm
	Y: 1800 mm	Y: 1820 mm	Y: 1755 mm	Y: 1640 mm	Y: 510 mm	Y: 1000 mm	Y: 1500 mm
Max. payload	Dependent on the s	Dependent on the selected dynamic response					
Required flatness of the mounting surface	≤ 0.1 mm/m						
Mounting position	Horizontal						

Size	YXCF-1-B	YXCF-2-B		
Max. working stroke	X: 800 mm	X: 1000 mm		
	Y: 600 mm	Y: 800 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.

### Characteristics

### 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
- 2D planar surface gantry
- 3-dimensional gantry
- 3D cantilever system

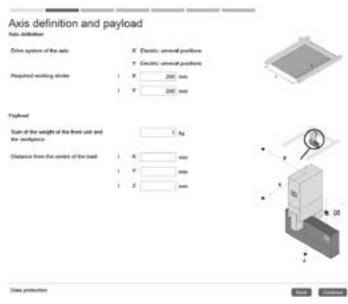
# 

### 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

### Entering the application data

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



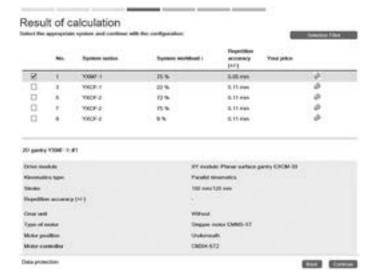
### Configurator: Handling Guide Online (HGO)

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
- Datasheet of the selected system
- Price information



### System overview

You will be given an overview of the complete system.

You will also have the following options:

- Show price
- Send request
- · Add to basket



### Characteristics

### 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

### Spindle axis ELGC-BS



- Electric
- Optimal installation space to working space ratio
- Protected against external influences by internal guide
- Various spindle pitches

### **Guide axis ELFC**



- Driveless linear guide unit with guide and freely movable slide unit
- The guide axis is designed to support forces and torques in multi-axis applications

### 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



- Electric
- Optimal installation space to working space ratio
- Protected against external influences by internal guide
- Various spindle pitches

### 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	ombinations <sup>1)</sup>	
Size	X-module	Y-module
YXCF-1	Toothed belt axis     EGC-50-TB-KF	Toothed belt axis     EGC-50-TB-KF
YXCF-1-B	Spindle axis     ELGC-60-BS	Spindle axis     ELGC-45-BS     Spindle axis     ELGC-60-BS
YXCF-2	Toothed belt axis     EGC-80-TB-KF	Toothed belt axis EGC-80-TB-KF Toothed belt axis with heavy-duty guide EGC-HD-125-TB
YXCF-2-B	Spindle axis     ELGC-80-BS	Spindle axis     ELGC-60-BS     Spindle axis     ELGC-80-BS
YXCF-3	Toothed belt axis     EGC-120-TB-KF	Toothed belt axis EGC-120-TB-KF Toothed belt axis with heavy-duty guide EGC-HD-160-TB
YXCF-4	Toothed belt axis     EGC-185-TB-KF	Toothed belt axis EGC-185-TB-KF Toothed belt axis with heavy-duty guide EGC-HD-220-TB
YXMF-1	Planar surface gantry     EXCM-30	Planar surface gantry     EXCM-30
YXMF-2	Planar surface gantry     EXCM-40, EXCH-40	Planar surface gantry     EXCM-40, EXCH-40
YXMF-3	Planar surface gantry     EXCH-60	Planar surface gantry     EXCH-60

<sup>1)</sup> Drive package depends on the configuration selected.

### 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





Stepper motors EMMS-ST



Gear unit EMGA



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

### Servo motors EMME-AS



Servo motors EMMB-AS



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

· Dynamic, brushless, permanently

• Digital absolute displacement en-

· Dynamic, brushless, permanently

· Digital absolute displacement en-

coder in single-turn or multi-turn

coder in single-turn or multi-turn

excited servo motor

· With optional brake

excited servo motor

· With optional brake

• Step angle 1.8° · With optional brake

• 2-phase hybrid technology

version

version

### Motor controller CMMP-AS, for servo motor



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

### Options:

- · Safety function: safe torque off (STO)/category 4, Performance
- · Additional digital inputs and outputs
- Bus protocols
  - CANopen
  - DeviceNet
  - EtherCAT
  - EtherNet/IP
  - PROFIBUS DP
  - PROFINET

### 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 controlled (SS1-t)
- Bus protocols
  - EtherCAT
  - PROFINET RT/IRT
  - EtherNet/IP
  - Modbus TCP

### 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				Stepper motor
X-module					
EHMX-EGC-50-TB-KF	-	-	EMME-AS-40-M-LV	-	EMMS-ST-42-S
EHMX-EGC-80-TB-KF	EMMT-AS-60-L-LS	-	EMME-AS-60-M-LS	-	EMMS-ST-57-S
	EMMT-AS-100-M-HS				
EHMX-EGC-120-TB-KF	EMMT-AS-80-L-LS	-	EMME-AS-80-S-LS	-	-
	EMMT-AS-80-L-HS				
EHMX-EGC-185-TB-KF	EMMT-AS-100-L-HS	-	-	-	-
EHMX-ELGC-60-BS	-	-	-	EMMB-AS-80-07	EMMS-ST-57-M
EHMX-ELGC-80-BS	_	-	-	EMMB-AS-80-07	EMMS-ST-87-M
Y-module	,			,	
EHMYEGC-50-TB-KF	-	_	EMME-AS-40-S-LV	-	EMMS-ST-57-M
EHMYEGC-80-TB-KF	EMMT-AS-60-S-LS	-	EMME-AS-60-M-LS	-	EMMS-ST-57-S
EHMYEGC-120-TB-KF	EMMT-AS-80-L-LS	-	EMME-AS-80-S-LS	-	EMMS-ST-87-S
	EMMT-AS-80-L-HS				
EHMYEGC-125-TB-HD	EMMT-AS-60-L-LS	-	EMME-AS-60-M-LS	-	EMMS-ST-57-S
EHMYEGC-160-TB-HD	EMMT-AS-80-M-LS	-	EMME-AS-80-S-LS	-	EMMS-ST-87-S
	EMMT-AS-80-L-HS				
EHMYEGC-185-TB-KF	EMMT-AS-100-L-HS	-	EMME-AS-100-M-HS	-	-
EHMYEGC-220-TB-HD	EMMT-AS-100-L-HS	-	EMME-AS-100-M-HS	-	-
EHMY-RP-ELGC-45-BS	-	-	-	EMMB-AS-40-01	EMMS-ST-42-S
EHMY-RP-ELGC-60-BS	-	-	-	EMMB-AS-60-04	EMMS-ST-57M
EHMY-RP-ELGC-80-BS	-	-	-	EMMB-AS-60-04	EMMS-ST-87-M
XY-module (EXCM, EXCH)					
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				
	Description	Cable length	Part no.	Туре
		[m]		
For servo motor EMMT-AS		· · · · · · · · · · · · · · · · · · ·		
Motor cable				
	For EMMT-AS-60/80 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
<b>67</b>		15	5251378	NEBM-M23G15-EH-15-Q7N-R3LEG14
		20	5251379	NEBM-M23G15-EH-20-Q7N-R3LEG14
	For EMMT-AS-100 with CMMT-AS	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
For servo motor EMMS-AS	5	[m]		
Motor cable <sup>1)</sup>				
	For servo motor EMMS-AS-70/100/140 with CMMP-AS	5	550310	NEBM-M23G8-E-5-Q9N-LE8
		10	550311	NEBM-M23G8-E-10-Q9N-LE8
		15	550312	NEBM-M23G8-E-15-Q9N-LE8
	For servo motor EMMS-AS-70/100/140 with CMMT-AS	5	5391141	NEBM-M23G8-E-5-Q9N-LE8-1
		10	5391144	NEBM-M23G8-E-10-Q9N-LE8-1
		15	5391139	NEBM-M23G8-E-15-Q9N-LE8-1
Encoder cable <sup>1)</sup>				
	For servo motor EMMS-AS-70/100/140 with CMMP-AS	5	550318	NEBM-M12W8-E-5-N-S1G15
		10	550319	NEBM-M12W8-E-10-N-S1G15
		15	550320	NEBM-M12W8-E-15-N-S1G15
	For servo motor EMMS-AS-70/100/140 with CMMT-AS	5	5213423	NEBM-M12W8-E-5-N-R3G8
		10	5213425	NEBM-M12W8-E-10-N-R3G8
		15	5213426	NEBM-M12W8-E-15-N-R3G8

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

Ordering data				
	Description	Cable length	Part no.	Туре
		[m]		
For servo motor EMME-AS				
Motor cable				
	For EMME-AS-40/60 with CMMT-AS	2.5	5391541	NEBM-M16G8-E-2.5-Q7-LE8-1
		5	5391543	NEBM-M16G8-E-5-Q7-LE8-1
		7.5	5391548	NEBM-M16G8-E-7.5-Q7-LE8-1
		10	8085952	NEBM-M16G8-E-10-Q7-LE8-1
		15	8085953	NEBM-M16G8-E-15-Q7-LE8-1
		20	611113	NEBM-M16G8-E-20-Q7-LE8-1
	For EMME-AS-80/100 with CMMT-AS	2.5	5391540	NEBM-M16G8-E-2.5-Q9-LE8-1
		5	5391545	NEBM-M16G8-E-5-Q9-LE8-1
		7.5	5391547	NEBM-M16G8-E-7.5-Q9-LE8-1
		10	5391549	NEBM-M16G8-E-10-Q9-LE8-1
		15	5391550	NEBM-M16G8-E-15-Q9-LE8-1
		20	611114	NEBM-M16G8-E-20-Q9-LE8-1
Encoder cable				
	• For EMME-AS-40/60/80/100 with CMMT-AS	2.5	5212312	NEBM-M12G8-E-2.5-N-R3G8
		5	5212313	NEBM-M12G8-E-5-N-R3G8
		7.5	5212314	NEBM-M12G8-E-7.5-N-R3G8
		10	5212315	NEBM-M12G8-E-10-N-R3G8
		15	5212316	NEBM-M12G8-E-15-N-R3G8
		20	611112	NEBM-M12G8-E-20-N-R3G8

Ordering data				
-		Cable length [m]	Part no.	Туре
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
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
Connecting cable for brake		<u> </u>		
Connecting caste for state	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
Adapter for encoder cable (a	healutaly acceptial)			
Adapter for effcoder cable (a	For EMMB-AS-40/60/80 with CMMT-AS	For single-turn	version with CMA	AT. A S
	- 101 LINIMD-73-40/00/00 WITH CIMIMT-743	0.5	8097197	NEFM-REG6-K-0.5-R3G8
		0.5	00,717	
66	F FIND AS (A)	- Lui		T + c1)
	For EMMB-AS-40/60/80 with CMMT-AS		version with CMM	
		0.5	8097195	NEFM-REG6-K-0.5-B-R3G8
			version with CMM	
		0.5	8097196	NEFM-REG6-K-0.5-B-REG6

<sup>1)</sup> The required battery is not included in the scope of delivery

# Ordering data - Accessories

Designation	Description	Cable length [m]	Part no.	Туре
For stepper motor EMM:	S-ST	1		
Motor cable <sup>1)</sup>				
	For stepper motor EMMS-ST-42/57 with CMMT-ST	2.5	1450369	NEBM-S1G9-E-2.5-Q5-LE6
	Straight plug	5	1450370	NEBM-S1G9-E-5-Q5-LE6
		7	1450371	NEBM-S1G9-E-7-Q5-LE6
•		10	1450372	NEBM-S1G9-E-10-Q5-LE6
		15	5085055	NEBM-S1G9-E-15-Q5-LE6
		20	5085056	NEBM-S1G9-E-20-Q5-LE6
	For stepper motor EMMS-ST-42/57 with CMMT-ST	2.5	1450737	NEBM-S1W9-E-2.5-Q5-LE6
	Angled plug	5	1450738	NEBM-S1W9-E-5-Q5-LE6
		7	1450739	NEBM-S1W9-E-7-Q5-LE6
•		10	1450740	NEBM-S1W9-E-10-Q5-LE6
		15	610856	NEBM-S1W9-E-15-Q5-LE6
	For stepper motor EMMS-ST-87 with CMMT-ST	2.5	1450944	NEBM-S1W15-E-2.5-Q7-LE6
	Angled plug	5.0	1450945	NEBM-S1W15-E-5-Q7-LE6
		7.0	1450946	NEBM-S1W15-E-7-Q7-LE6
***		10	1450947	NEBM-S1W15-E-10-Q7-LE6
		15	610857	NEBM-S1W15-E-15-Q7-LE6
Encoder cable <sup>1)</sup>				
Elicodel Capie <sup>-7</sup>	For stepper motor EMMS-ST-42/57/87 with CMMT-ST	2.5	1451587	NEBM-M12G8-E-2.5-LE8
	Straight plug	5	1451587	NEBM-M12G8-E-5-LE8
	5 Straight plug	7	1451589	NEBM-M12G8-E-7-LE8
		10	1451589	NEBM-M12G8-E-7-LE8
•		15	611110	NEBM-M12G8-E-10-LE8
		20		-
	- For stonner motor FMMC ST /2/F7/97 with CMMTST		611111 1451675	NEBM-M12G8-E-20-LE8 NEBM-M12W8-E-2.5-LE8
	For stepper motor EMMS-ST-42/57/87 with CMMT-ST     Angled plug	2.5		NEBM-M12W8-E-2.5-LE8
	- Aligica piug	5	1451676	-
			1451677	NEBM-M12W8-E-7-LE8
		10	1451678	NEBM-M12W8-E-10-LE8
		15	610858	NEBM-M12W8-E-15-LE8

Cables especially suitable for the motor controller and motor.

Degree of protection to IP65 (in assembled state)

### 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	1 m	2 m	5 m	7 m	10 m
Motor cable	-	•	•	•	•
Encoder cable	-				•
Multi-pin plug connecting cable	-			•	•
Tubing (for DHMZ only)				-	-

### 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.

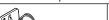
Designation	Description		Cable length [m]	Part no.	Туре
Proximity switch (induc	ctive) for sensing the position of the slide on the X-,	/Y-/Z-axis			
	Cable with open end				
	For toothed belt axis EGC-TB,	PNP, N/C contact	7.5	551391	SIES-8M-PO-24V-K-7.5-OE
67	EGC-HD-TB	PNP, N/O contact	7.5	551386	SIES-8M-PS-24V-K-7.5-OE
	For spindle axis EGC-BS	NPN, N/C contact	7.5	551401	SIES-8M-NO-24V-K-7.5-OE
	For spindle axis ELGC-BS	NPN, N/O contact	7.5	551396	SIES-8M-NS-24V-K-7.5-0E
	For DC voltage		Į.		
	Included if the "Festo sensor package" is				
	selected:				
	For EGC, ELGC: 2 pieces				
Proximity switches for	sensing the position of the slide on the X-axis				
	For EXCM-40, EXCH-40, EXCH-60	PNP, N/O contact	-	150491	SIES-V3B-PS-S-L
	• For EXCM-40, EXCH-40, EXCH-60	PNP, N/C contact	-	174552	SIES-Q8B-PO-K-L
	Included if the "Festo sensor package" is sele	cted:		•	
60	• 1 piece				
Proximity switch (induc	ctive) for sensing the position of the slide on the Y-	axis			
	Cable with plug				
	• For EXCM-40, EXCH-40, EXCH-60	PNP, N/C contact	0.3	551392	SIES-8M-PO-24V-K-0.3-M8D
CE STATE OF THE PERSON OF THE	For DC voltage	PNP, N/O contact	0.3	551387	SIES-8M-PS-24V-K-0.3-M8D
	Included if the "Festo sensor package" is		,		'
	selected:				
	• 1 piece				

# Ordering data – Accessories

Designation	Description	Cable length [m]	Part no.	Туре
Plug socket with cable				
	Connection between multi-pin plug distributor NEDU and control cabinet	5	525618	SIM-M12-8GD-5-PU
		10	570008	SIM-M12-8GD-10-PU
Plug				
	For connection to the multi-pin plug distributor NEDU / distributor NEDY	_	562024	NECU-S-M8G3-HX
Connecting cable				
	Connection between distributor NEDY and control cabinet	2.5	541342	NEBU-M8G4-K-2.5-LE4
		5	541343	NEBU-M8G4-K-5-LE4
		7.5	610854	NEBU-M8G4-K-7.5-LE4
		10	589560	NEBU-M8G4-K-10-LE4
		15	610855	NEBU-M8G4-K-15-LE4
Multi-pin plug distributor				
<b>(6)</b>	With the help of the multi-pin plug distributor, electrical signals such as for	-	574586	NEDU-L4R1-M8G3L-M12G8
	end-position sensing can be transferred collectively		574587	NEDU-L6R1-M8G3L-M12G8
	Options:			
	<ul><li>4 individual connections</li><li>6 individual connections</li></ul>			
	With the help of the distributor, electrical signals such as for end-position	_	8005312	NEDY-L2R1-V1-M8G3-N-M8G4
	sensing can be transferred collectively - 2 individual connections			

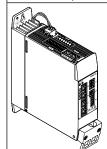
### Designation Description

### Motor controller/servo drive



The accessories for the relevant motor controllers/servo drives can be found at:

- www.festo.com/catalogue/cmmp
- www.festo.com/catalogue/cmmt
- www.festo.com/catalogue/cmxh



Adjusting kit  Sensor mounting  • For I	unting kit for the energy chain and a Z-axis, thas EGSL, DGSL  ight-adjustable mounting kit  homing in combination with third-party tors	• EXCM-30  • EXCM-30	4070088	EAHT-E9-FB-3D-30  EADC-E11-30
Adjusting kit  Sensor mounting  For I mot	ight-adjustable mounting kit	• EXCM-30		
Sensor mounting  • For I mot	homing in combination with third-party		4070088	EADC-E11-30
Sensor mounting  • For mot	homing in combination with third-party		4070088	EADC-E11-30
• For mot	· ·	• EXCM-30		
mot	· ·	• EXCM-30		
Concor mounting			4070088	EAPR-E11-30
Sensor mounting				
• For I	mounting the proximity switches SIES-	• EXCM-40, EXCH-40	2536353	EAPR-E12-40
• For I QSE	B, SIES-V3B on the X-axis	EXCH-60	2478805	EAPR-E12-60
Energy chain				
• As a	a cable guide for the Z-axis	• EXCM-30	8059999 8060324	EADH-U-3D-40
Connector set	taining brackets for mounting the energy ain	• EXCM-30	8060325 8060326	EAHT-AE-3D-30 EAHT-AE-3D-40
Adjusting tool				
/ /	aligning and checking the flatness of the mar surface gantry	EXCM-40, EXCH-40, EXCH-60	3197697	EADT-W-E12
Adjusting kit				
	ed to mount the handling system on the	EHMXEGC-50-TB-KF	8047565	EADC-E15-50-E7
sup	oporting surface	EHMXEGC-80-TB-KF	8047566	EADC-E15-80-E7
	n be used to easily compensate for any	EHMXEGC-120-TB-KF	8047567	EADC-E15-120-E7
une	evenness in the supporting surface	EHMXEGC-185-TB-KF	8047568	EADC-E15-185-E7
		EHMXELGC-60-BS EHMXELGC-80-BS	8142650 8142651	EADC-E15-60-E22 EADC-E15-80-E22
Profile mounting	· · · · · · · · · · · · · · · · · · ·	<u> </u>		
• Use	ed to mount the handling system on the	EHMXELGC-60-BS	8142652	EAHM-E15-60-E22
	oporting surface s not height-adjustable	EHMXELGC-80-BS	8142653	EAHM-E15-80-E22

# Programming aid

### FCT software - Festo Configuration Tool

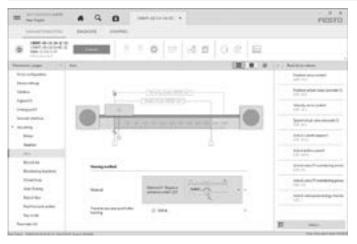
Software platform for electric drives from Festo (→ www.festo.com/sp/fct)



- All drives in a system can be managed and saved in a common project
- Project and data management for all supported types of equipment
- Simple to use thanks to graphically supported parameter entry
- Universal mode of operation for all drives
- Work offline at your desk or online at the machine

### **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