



Key features

At a glance

The cantilever system facilitates movement in 3D 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
- Pneumatic and electric components are freely combinable
- As an electrical solution it is freely positionable/any intermediate positions



- For any movements in 3D 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
- [8] Servo motor for the Z-module
- [9] Z-axis



Description of the modules

X-module

Design:

The X-module EHMX-AS comprises 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)





Description of the modules Y-module

Design:

The Y-module EHMY comprises a linear axis which is powered by a servo or 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)

Z-module

Design:

The Z-module EHMZ comprises an electric drive, the DHMZ comprises a pneumatic drive. Based on the configuration, an energy chain is optionally installed as a cable guide depending on the axis type and stroke.

The Z-module can be selected using the configurator, depending on the application.

Sample image:



Sample image:



Key features

Dispatch options Partially assembled: Fully assembled: Partially 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 \rightarrow table below. The cantilever system is delivered partially assembled. This means that all three axis modules (X-/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 (\rightarrow page 9) are enclosed. Note flatness \rightarrow table below.

System overview¹⁾ YXCA-1-B YXCA-2-B Size Max. working stroke Х: 800 mm Х: 1000 mm Y: 300 mm Y: 400 mm 150 mm Ζ: 200 mm Z: Dependent on the selected dynamic response Max. payload Required flatness of the mounting surface ≤ 0.1 mm/m Mounting position Horizontal

1) Drive package depends on the configuration selected.

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
- Three-dimensional gantry
- 3D cantilever system

Selecting the handling solution ect your handling syster



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 Drive system of the axis X Electric: several positions Y Electric: several positions $\mathbf{\vee}$ Z Electric: several positions Required working stroke х 100 mm i Y 120 mm Working stroke in Z direction i Z 50 mm Take the stroke reserve into account in your specification Payload Sum of the weight of the front unit and the workpiece 2 kg Distance from the centre of the load x mm mm z mm Back Continue

Data protection

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

Configurator: Handling Guide Online (HGO)

Result of the calculation

You will be offered a selection of sys-

tems 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

				e with the c	configuration:		Selection Filter
		No.	System series		System workload i	Repetition accuracy (+/-)	Your price
1	•	1	YXCR-1		91 %	0.11 mm	ø
		3	YXCR-2		46 %	0.11 mm	¢.
		5	YXCR-2		52 %	0.11 mm	
		7	YXCR-2		32 %	0.11 mm	
		26	YXMR-2	0	48 %	0.1 mm	de la

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

3D	gantry	YXCR-1	:#1

Gear unit	5:1	5:1	Without
Repetition accuracy (+/-)	0.08 mm	0.08 mm	0.02 mm
Stroke	200 mm	200 mm	50 mm
Drive module Kinematics type	X module: toothed belt axis EGC-50 Serial kinematics	Y module: toothed belt axis EGC-50 Serial kinematics	Z module: Electric mini slide EGSL-35 Serial kinematics

System overview

- You will be given an overview of the complete system. You will also have the following options:
- Show price
 - Send request
 - s: Add to basket

Your handling solution



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
	400

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 ELGC-BS



Y-axis

Ball screw axis ELGC-BS



Z-axis

Mini slide EGSC



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

• Electrical

Compact design

• High load capacity

• Precision guide and ball screw

• Easy adjustment of end positions

- Optimal installation space to working space ratio
- Protected against external influences by internal guide
- Various spindle pitches
- Mini slide DGST
- Pneumatic
- Precise and resilient roller bearing guide
- Slide and yoke plate as a single component
- High dynamic response

Possible axis combinations¹⁾

Size	X-module	Y-module	Z-module
YXCA-1-B	Ball screw axis ELGC-60-BS	• Ball screw axis ELGC-45-BS	Mini slide pneumatic: DGST-8/12 electric: EGSC-32
YXCA-2-B	Ball screw axis ELGC-80-BS	Ball screw axis ELGC-60-BS	Mini slide pneumatic: DGST-12/16 electric: EGSC-45

1) 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 EMMB-AS



Stepper motors EMMT-ST



Servo drive CMMT-AS, for servo motor



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

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 to the front or the rear
- With optional brake
- Bus protocols
 - EtherCAT $^{\ensuremath{\mathbb{R}}}$
 - 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:

Options:

•

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

• Safety function: safe torque off (STO)/

category 4, Performance Level e

• Safe brake control (SBC) up to SIL3/

category 3, Performance Level e

Safe stop 1 (SS1)

- Safe stop 1 time controlled (SS1-t)
- Bus protocols
 - EtherCAT®
 - PROFINET RT/IRT
 - EtherNet/IP
 - Modbus TCP

Module/motor combinations

We recommend that the three-dimensional 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-ELGC-60-BS	EMMB-AS-80-07	EMMT-ST-57-L	EMMB-ST-57-L
EHMX-ELGC-80-BS	EMMB-AS-80-07	EMMT-ST-87-M	EMMB-ST-87-M
Y-module			
EHMY-RP-ELGC-45-BS	EMMB-AS-40-01	EMMT-ST-42-L	EMMB-ST-42-L
EHMY-RP-ELGC-60-BS	EMMB-AS-60-04	EMMT-ST-57-L	EMMB-ST-57-L
Z-module			
EHMZ-EGSC-32	EMMB-AS-40-01	EMMT-ST-42-L	EMMB-ST-42-L
EHMZ-EGSC-45	EMMB-AS-40-01	EMMT-ST-42-L	EMMB-ST-42-L

Ordering data – Accessories

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
ET ST		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
\sim		5	5219214	NEBM-REG6-E-5-Q14N-REG6
		7.5	5219215	NEBM-REG6-E-7.5-Q14N-REG6
Ť ÉP		10	5219216	NEBM-REG6-E-10-Q14N-REG6
~~~		15	8097200	NEBM-REG6-E-15-Q14N-REG6
Connecting cable for brake				
<u>, , , , , , , , , , , , , , , , , , , </u>	For EMMB-AS-40/60/80 with CMMT-AS	2.5	5219205	NEBM-H7G2-E-2.5-Q14N-LE2
ma		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 (al	hsolutely essential)			
	For EMMB-AS-40/60/80 with CMMT-AS	For single-turn	version with CMI	AT-AS
		0.5	8097197	NEFM-REG6-K-0.5-R3G8
- Grad				
	For EMMB-AS-40/60/80 with CMMT-AS	For multi-turn v	version with CMN	T-AS ¹⁾
		0.5	8097195	NEFM-REG6-K-0.5-B-R3G8
ST A		For multi-turn v	version with CMN	B-AS ¹⁾
₩ <b>₩</b>		0.5	8097196	NEFM-REG6-K-0.5-B-REG6

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

Designation	Description	Cable length	Part no.	Туре
		[m]		
For stepper motor EM	MT-ST			
Motor cable				
	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
	2º	7	8190096	NEBM-M17G12-EH-7.5-Q6N-LE12
		10	8195457	NEBM-M17G12-EH-10-Q6N-LE12
E Start		15	8214679	NEBM-M17G12-EH-15-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
	• 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
			8214682	NEBM-M17G12-EH-10-Q9N-LE12
		10	0214002	
		10 15	8214683	NEBM-M17G12-EH-15-Q9N-LE12
Designation	Description			
Designation	Description	15	8214683	NEBM-M17G12-EH-15-Q9N-LE12
Ū		15 Cable length	8214683	NEBM-M17G12-EH-15-Q9N-LE12
For stepper motor EMM		15 Cable length	8214683	NEBM-M17G12-EH-15-Q9N-LE12
For stepper motor EMA		15 Cable length	8214683	NEBM-M17G12-EH-15-Q9N-LE12
For stepper motor EMA	MB-ST	15 Cable length [m]	8214683	<b>NEBM-M17G12-EH-15-Q9N-LE12</b> Type
For stepper motor EMA	MB-ST	15 Cable length [m] 2.5	8214683 Part no. 8181675	NEBM-M17G12-EH-15-Q9N-LE12           Type           NEBM-L5G14-EH-2.5-Q6N-LE12
For stepper motor EMA	MB-ST	15 Cable length [m] 2.5 5	8214683           Part no.           8181675           8181664	NEBM-M17G12-EH-15-Q9N-LE12           Type           NEBM-L5G14-EH-2.5-Q6N-LE12           NEBM-L5G14-EH-5-Q6N-LE12
For stepper motor EMA	MB-ST	15 Cable length [m] 2.5 5 7	8214683 Part no. 8181675 8181664 8181676	NEBM-M17G12-EH-15-Q9N-LE12           Type           NEBM-L5G14-EH-2.5-Q6N-LE12           NEBM-L5G14-EH-5-Q6N-LE12           NEBM-L5G14-EH-7.5-Q6N-LE12
For stepper motor EMA	MB-ST	15 Cable length [m] 2.5 5 7 10	8214683 Part no. 8181675 8181664 8181676 8181672	NEBM-M17G12-EH-15-Q9N-LE12           Type           NEBM-L5G14-EH-2.5-Q6N-LE12           NEBM-L5G14-EH-5-Q6N-LE12           NEBM-L5G14-EH-7.5-Q6N-LE12           NEBM-L5G14-EH-10-Q6N-LE12
For stepper motor EMA	MB-ST • For EMMB-ST-42 with CMMT-ST	15 Cable length [m] 2.5 5 7 10 15	8214683 Part no. 8181675 8181664 8181676 8181672 8214680	NEBM-M17G12-EH-15-Q9N-LE12           Type           NEBM-L5G14-EH-2.5-Q6N-LE12           NEBM-L5G14-EH-5-Q6N-LE12           NEBM-L5G14-EH-7.5-Q6N-LE12           NEBM-L5G14-EH-10-Q6N-LE12           NEBM-L5G14-EH-15-Q6N-LE12
For stepper motor EMA	MB-ST • For EMMB-ST-42 with CMMT-ST	15 Cable length [m] 2.5 5 7 10 15 2.5	8214683 Part no. 8181675 8181664 8181676 8181672 8214680 8181677	NEBM-M17G12-EH-15-Q9N-LE12           Type           NEBM-L5G14-EH-2.5-Q6N-LE12           NEBM-L5G14-EH-5-Q6N-LE12           NEBM-L5G14-EH-7.5-Q6N-LE12           NEBM-L5G14-EH-10-Q6N-LE12           NEBM-L5G14-EH-15-Q6N-LE12           NEBM-L5G14-EH-15-Q6N-LE12           NEBM-L5G14-EH-15-Q6N-LE12           NEBM-L5G14-EH-15-Q6N-LE12
For stepper motor EMA	MB-ST • For EMMB-ST-42 with CMMT-ST	15 Cable length [m] 2.5 5 7 10 15 2.5 5 5	8214683 Part no. 8181675 8181664 8181676 8181672 8214680 8181677 8181667	NEBM-M17G12-EH-15-Q9N-LE12           Type           NEBM-L5G14-EH-2.5-Q6N-LE12           NEBM-L5G14-EH-5-Q6N-LE12           NEBM-L5G14-EH-7.5-Q6N-LE12           NEBM-L5G14-EH-10-Q6N-LE12           NEBM-L5G14-EH-10-Q6N-LE12           NEBM-L5G14-EH-10-Q6N-LE12           NEBM-L5G14-EH-10-Q6N-LE12           NEBM-L5G14-EH-10-Q6N-LE12           NEBM-L5G14-EH-10-Q6N-LE12           NEBM-L5G14-EH-10-Q6N-LE12           NEBM-L5G14-EH-10-Q6N-LE12           NEBM-L5G14-EH-10-Q6N-LE12           NEBM-L5G14-EH-15-Q6N-LE12           NEBM-L10G14-EH-2.5-Q6N-LE12           NEBM-L10G14-EH-5-Q6N-LE12
For stepper motor EMA	MB-ST • For EMMB-ST-42 with CMMT-ST	15 Cable length [m] 2.5 5 7 10 15 2.5 5 7 7 7	8214683 Part no. Part no. 8181675 8181664 8181676 8181672 8214680 8181677 8181667 8181667	NEBM-M17G12-EH-15-Q9N-LE12           Type           NEBM-L5G14-EH-2.5-Q6N-LE12           NEBM-L5G14-EH-5-Q6N-LE12           NEBM-L5G14-EH-7.5-Q6N-LE12           NEBM-L5G14-EH-10-Q6N-LE12           NEBM-L5G14-EH-15-Q6N-LE12           NEBM-L5G14-EH-15-Q6N-LE12           NEBM-L5G14-EH-15-Q6N-LE12           NEBM-L5G14-EH-15-Q6N-LE12           NEBM-L5G14-EH-15-Q6N-LE12           NEBM-L5G14-EH-15-Q6N-LE12           NEBM-L10G14-EH-5-Q6N-LE12           NEBM-L10G14-EH-7.5-Q7N-LE12
For stepper motor EMA	MB-ST • For EMMB-ST-42 with CMMT-ST	15         Cable length         [m]         2.5         5         7         10         15         2.5         5         7         10         15         2.5         5         7         10         10         10	8214683           Part no.           8181675           8181676           8181676           8181677           8181677           8181667           8181677           8181677           8181677           8181677           8181677           8181677           8181677           8181673	NEBM-M17G12-EH-15-Q9N-LE12           Type           NEBM-L5G14-EH-2.5-Q6N-LE12           NEBM-L5G14-EH-2.5-Q6N-LE12           NEBM-L5G14-EH-7.5-Q6N-LE12           NEBM-L5G14-EH-10-Q6N-LE12           NEBM-L5G14-EH-15-Q6N-LE12           NEBM-L5G14-EH-15-Q6N-LE12           NEBM-L5G14-EH-15-Q6N-LE12           NEBM-L5G14-EH-15-Q6N-LE12           NEBM-L10G14-EH-5-Q6N-LE12           NEBM-L10G14-EH-7.5-Q7N-LE12           NEBM-L10G14-EH-10-Q7N-LE12           NEBM-L10G14-EH-10-Q7N-LE12
For stepper motor EMA	MB-ST  For EMMB-ST-42 with CMMT-ST  For EMMB-ST-57 with CMMT-ST	15         Cable length         [m]         2.5         5         7         10         15         2.5         5         7         10         15         2.5         5         7         10         15         2.5         5         7         10         15         15	8214683 Part no. Part no. 8181675 8181664 8181676 8181672 8214680 8181677 8181667 8181667 8181673 8181673 8214689	NEBM-M17G12-EH-15-Q9N-LE12           Type           NEBM-L5G14-EH-2.5-Q6N-LE12           NEBM-L5G14-EH-2.5-Q6N-LE12           NEBM-L5G14-EH-7.5-Q6N-LE12           NEBM-L5G14-EH-10-Q6N-LE12           NEBM-L5G14-EH-15-Q6N-LE12           NEBM-L5G14-EH-15-Q6N-LE12           NEBM-L5G14-EH-15-Q6N-LE12           NEBM-L10G14-EH-2.5-Q6N-LE12           NEBM-L10G14-EH-7.5-Q7N-LE12           NEBM-L10G14-EH-10-Q7N-LE12           NEBM-L10G14-EH-10-Q7N-LE12           NEBM-L10G14-EH-15-Q9N-LE12
For stepper motor EMA	MB-ST  For EMMB-ST-42 with CMMT-ST  For EMMB-ST-57 with CMMT-ST	15         Cable length         [m]         2.5         5         7         10         15         2.5         5         7         10         15         2.5         5         7         10         15         2.5         5         7         10         15         2.5	8214683 Part no. Part no. 8181675 8181664 8181676 8181677 8181667 8181667 8181677 8181667 8181673 8214689 8181666	NEBM-M17G12-EH-15-Q9N-LE12           Type           NEBM-L5G14-EH-2.5-Q6N-LE12           NEBM-L5G14-EH-2.5-Q6N-LE12           NEBM-L5G14-EH-7.5-Q6N-LE12           NEBM-L5G14-EH-10-Q6N-LE12           NEBM-L5G14-EH-15-Q6N-LE12           NEBM-L10G14-EH-2.5-Q6N-LE12           NEBM-L10G14-EH-7.5-Q6N-LE12           NEBM-L10G14-EH-7.5-Q7N-LE12           NEBM-L10G14-EH-7.5-Q7N-LE12           NEBM-L10G14-EH-10-Q7N-LE12           NEBM-L10G14-EH-15-Q9N-LE12           NEBM-L10G14-EH-15-Q9N-LE12           NEBM-L10G14-EH-15-Q9N-LE12           NEBM-L10G14-EH-15-Q9N-LE12           NEBM-L10G14-EH-15-Q9N-LE12
Designation For stepper motor EMJ Motor cable	MB-ST  For EMMB-ST-42 with CMMT-ST  For EMMB-ST-57 with CMMT-ST	15         Cable length         [m]         2.5         5         7         10         15         2.5         5         7         10         15         2.5         5         7         10         15         2.5         5         7         10         15         2.5         5         7         10         15         2.5         5	8214683 Part no. Part no. 8181675 8181664 8181676 8181677 8181667 8181677 8181667 8181673 8214689 8181666 8181671	NEBM-M17G12-EH-15-Q9N-LE12           Type           NEBM-L5G14-EH-2.5-Q6N-LE12           NEBM-L5G14-EH-5-Q6N-LE12           NEBM-L5G14-EH-7.5-Q6N-LE12           NEBM-L5G14-EH-7.5-Q6N-LE12           NEBM-L5G14-EH-7.5-Q6N-LE12           NEBM-L5G14-EH-7.5-Q6N-LE12           NEBM-L5G14-EH-10-Q6N-LE12           NEBM-L10G14-EH-2.5-Q6N-LE12           NEBM-L10G14-EH-7.5-Q7N-LE12           NEBM-L10G14-EH-7.5-Q7N-LE12           NEBM-L10G14-EH-10-Q7N-LE12           NEBM-L10G14-EH-15-Q9N-LE12           NEBM-L10G14-EH-15-Q7N-LE12           NEBM-L10G14-EH-5-Q7N-LE12           NEBM-L10G14-EH-5-Q7N-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	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	Part no.	Туре
Proximity switch (inc	luctive) for sensing the position of the slide on the X-/Y-/Z-	axis			
	Cable with open end				
a V	For ball screw axis ELGC-BS	PNP, N/C contact	7.5 m	551391	SIES-8M-PO-24V-K-7.5-0E
	For mini slide EGSC	PNP, N/O contact	7.5 m	551386	SIES-8M-PS-24V-K-7.5-0E
	For DC voltage	NPN, N/C contact	7.5 m	551401	SIES-8M-NO-24V-K-7.5-OE
	Included if the "Festo sensor package" is selected:	NPN, N/O contact	7.5 m	551396	SIES-8M-NS-24V-K-7.5-OE
	<ul><li>For ELGC: 2 pieces</li><li>For EGSC: 1 piece</li></ul>				
	• FOR EGSC: 1 piece				
roximity switches (ı	nagneto-resistive) for sensing the position of the slide on t	he Z-axis			
	For mini slide DGST-8/-12	PNP, N/O contact	2.5 m	551375	SMT-10M-PS-24V-E-0.3-L-M8D
N JUE A	For DC voltage	NPN, N/O contact	2.5 m	551379	SMT-10M-NS-24V-E-0.3-L-M8D
All Sol	Included if the "Festo sensor package" is selected:				
C.	• 2 pieces				F
	• For mini slide DGST-16/-20	PNP, N/O contact	2.5 m	574334	SMT-8M-A-PS-24V-E-0.3-M8D
	For DC voltage	NPN, N/O contact	2.5 m	574339	SMT-8M-A-NS-24V-E-0.3-M8D
	5	NI N, N/O CONTACT			
Contraction of the second	Included if the "Festo sensor package" is selected:		I		
E MARINE S	5			-	
and when	Included if the "Festo sensor package" is selected:	IN N, N/O CONTACT			
on when	Included if the "Festo sensor package" is selected: • 2 pieces	n n, njo contact		Dart no	Тиро
	Included if the "Festo sensor package" is selected: • 2 pieces Description		Cable length	Part no.	Туре
Designation	Included if the "Festo sensor package" is selected: • 2 pieces Description le		Cable length		
	Included if the "Festo sensor package" is selected: • 2 pieces Description		Cable length	525618	SIM-M12-8GD-5-PU
	Included if the "Festo sensor package" is selected: • 2 pieces Description le		Cable length		
	Included if the "Festo sensor package" is selected: • 2 pieces Description le		Cable length	525618	SIM-M12-8GD-5-PU
Plug socket with cab	Included if the "Festo sensor package" is selected: • 2 pieces Description le		Cable length	525618	SIM-M12-8GD-5-PU
	Included if the "Festo sensor package" is selected: <ul> <li>2 pieces</li> </ul> Description le <ul> <li>Connection between multi-pin plug distributor NI</li> </ul>	EDU and control cabinet	Cable length	525618 570008	SIM-M12-8GD-5-PU SIM-M12-8GD-10-PU
Plug socket with cab	Included if the "Festo sensor package" is selected: • 2 pieces Description le	EDU and control cabinet	Cable length	525618	SIM-M12-8GD-5-PU
lug socket with cab	Included if the "Festo sensor package" is selected: <ul> <li>2 pieces</li> </ul> Description le <ul> <li>Connection between multi-pin plug distributor NI</li> </ul>	EDU and control cabinet	Cable length	525618 570008	SIM-M12-8GD-5-PU SIM-M12-8GD-10-PU
lug	Included if the "Festo sensor package" is selected: <ul> <li>2 pieces</li> </ul> Description le <ul> <li>Connection between multi-pin plug distributor NI</li> </ul>	EDU and control cabinet	Cable length	525618 570008	SIM-M12-8GD-5-PU SIM-M12-8GD-10-PU
lug	Included if the "Festo sensor package" is selected: 2 pieces Description  Connection between multi-pin plug distributor N  For connection to the multi-pin plug distributor N	EDU and control cabinet EDU / distributor NEDY	Cable length 5 m 10 m -	525618 570008 562024	SIM-M12-8GD-5-PU SIM-M12-8GD-10-PU NECU-S-M8G3-HX
Plug socket with cab	Included if the "Festo sensor package" is selected: <ul> <li>2 pieces</li> </ul> Description le <ul> <li>Connection between multi-pin plug distributor NI</li> </ul>	EDU and control cabinet EDU / distributor NEDY	Cable length 5 m 10 m - 2.5	525618 570008 562024 8078227	SIM-M12-8GD-5-PU SIM-M12-8GD-10-PU NECU-S-M8G3-HX NEBA-M8G4-U-2.5-N-LE4
Plug socket with cab	Included if the "Festo sensor package" is selected: 2 pieces Description  Connection between multi-pin plug distributor N  For connection to the multi-pin plug distributor N	EDU and control cabinet EDU / distributor NEDY	Cable length 5 m 10 m - 2.5 5	525618 570008 562024 8078227 8078228	SIM-M12-8GD-5-PU         SIM-M12-8GD-10-PU         NECU-S-M8G3-HX         NEBA-M8G4-U-2.5-N-LE4         NEBA-M8G4-U-5-N-LE4
Plug socket with cab	Included if the "Festo sensor package" is selected: 2 pieces Description  Connection between multi-pin plug distributor N  For connection to the multi-pin plug distributor N	EDU and control cabinet EDU / distributor NEDY	Cable length 5 m 10 m - 2.5 5 7.5	525618 570008 562024 562024 8078227 8078228 8215486	SIM-M12-8GD-5-PU         SIM-M12-8GD-10-PU         NECU-S-M8G3-HX         NEBA-M8G4-U-2.5-N-LE4         NEBA-M8G4-U-5-N-LE4         NEBA-M8G4-U-7.5-N-LE4
Plug socket with cab	Included if the "Festo sensor package" is selected: 2 pieces Description  Connection between multi-pin plug distributor N  For connection to the multi-pin plug distributor N	EDU and control cabinet EDU / distributor NEDY	Cable length 5 m 10 m - 2.5 5	525618 570008 562024 8078227 8078228	SIM-M12-8GD-5-PU         SIM-M12-8GD-10-PU         NECU-S-M8G3-HX         NEBA-M8G4-U-2.5-N-LE4         NEBA-M8G4-U-5-N-LE4

Designation	Description	Cable length	Part no.	Туре
Multi-pin plug distributor				
Contraction of the second seco	<ul> <li>With the help of the multi-pin plug distributor, all electrical signals such as for end-position sensing can be transferred</li> <li>4 individual connections</li> </ul>	_	574586	NEDU-L4R1-M8G3L-M12G8
	<ul> <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			
Motor controller/servo drive				

The accessories for the relevant motor controllers/servo drives can be found at: • www.festo.com/catalogue/cmmt

Designation	Description		Part no.	Туре
Adjusting kit				
11 00	Used to mount the handling system on the supporting	EHMXELGC-60-BS	8142650	EADC-E15-60-E22
	surface	EHMXELGC-80-BS	8142651	EADC-E15-80-E22
	• Can be used to easily compensate for any unevenness in the bearing surface			
Profile mounting	-			-
$\sim$	Used to mount the handling system on the supporting	EHMXELGC-60-BS	8142652	EAHM-E15-60-E22
	surface	EHMXELGC-80-BS	8142653	EAHM-E15-80-E22
	It is not height-adjustable			

## 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