

Three-dimensional gantries

FESTO



Three-dimensional gantries

Key features

At a glance

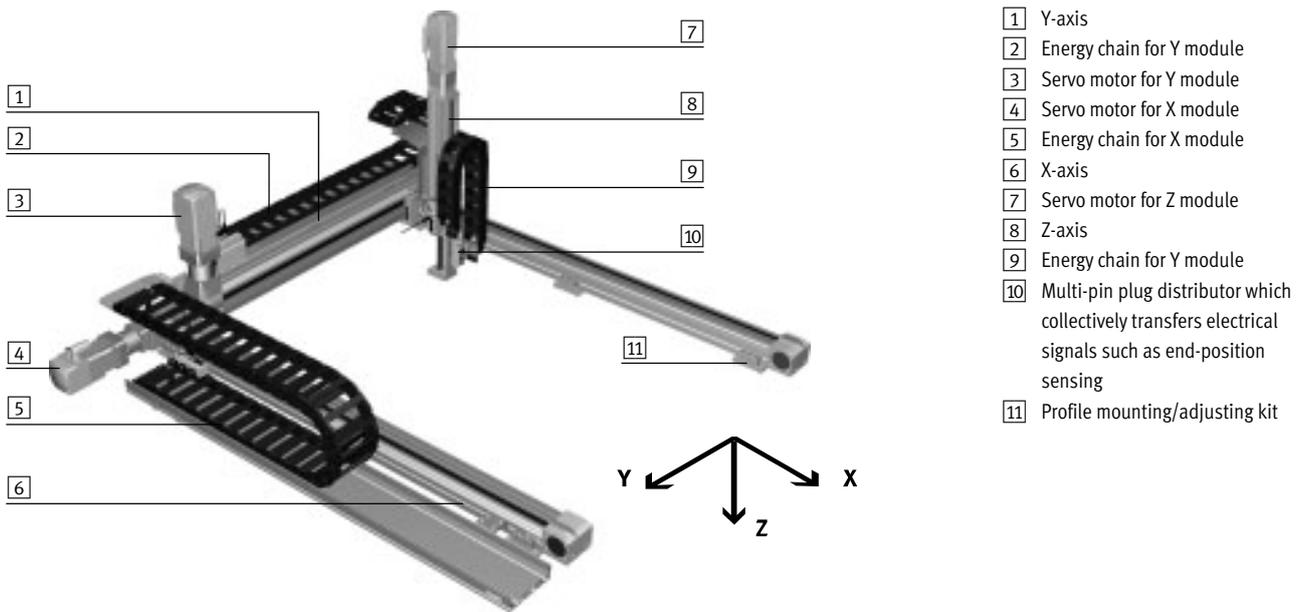
A three-dimensional gantry (YXCR) is an assembly of several axis modules (EHM.../DHMZ) to produce a movement in 3D space.

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

- High mechanical rigidity and sturdy design
- Pneumatic and electrical components – freely combinable
- As an electrical solution – freely positionable/any intermediate positions

Range of applications:

- For any movements in 3D space
- Very high requirements for precision and/or very heavy workpieces combined with long strokes



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

Description of the modules

X module

Structure:

The X module EHMx comprises 2 parallel toothed belt axes which are connected to one another by a connecting shaft. They are powered by a servo motor.

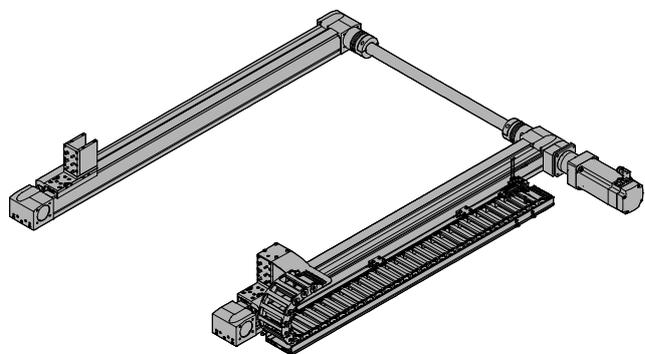
Adapters are installed on the slide of the X-axes to connect the Y module.

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

The following elements are located on the motor side:

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

Sample image:



Three-dimensional gantries

Key features

Description of the modules

Y module

Structure:

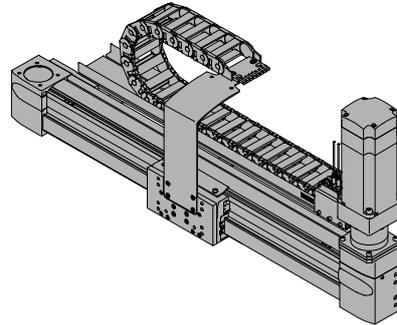
The Y module EHMY comprises a linear axis which is powered by a servo motor. Adapters are installed on the slide of the Y-axis to connect the Z module.

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

The following elements are located on the motor side:

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

Sample image:



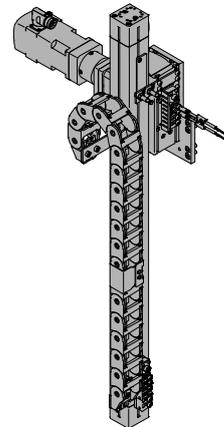
Z module

Structure:

The Z module EHMZ comprises an electric drive, the DHMZ comprises a pneumatic drive. In both variants, an energy chain is attached as a cable guide.

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

Sample image:



Dispatch options

Fully assembled:

The 3D gantry 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 evenness → table below.

Partially assembled:

The 3D gantry is delivered partially assembled. This means that all three axis modules (X-/Y-/Z-axis) are assembled, each with an optional motor. The partially assembled system must be completed by the customer. Help

can be found in the assembly instructions provided. Optional accessories (→ 9) are enclosed. Note evenness → table below.

System overview ¹⁾				
Size	YXCR-1	YXCR-2	YXCR-3	YXCR-4
Max. working stroke	X: 1900 mm Y: 1900 mm Z: 50 mm	X: 3000 mm Y: 2000 mm Z: 800 mm	X: 3000 mm Y: 2000 mm Z: 800 mm	X: 3000 mm Y: 2000 mm Z: 800 mm
Max. payload	Dependent on the selected dynamic response			
Required evenness of the mounting surface	≤ 0.1 mm/m			
Mounting position	Horizontal			

1) Drive package depending on configuration selected.

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Configurator: Handling Guide Online (HGO)

Selecting a handling system

Planning complex handling systems takes a lot of time. You can use the "Handling Guide Online" (HGO) configurator 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
- 3D gantry

Benefits:

- Automatic selection of all relevant components
- Automatic design and calculation of workload
- Quote created automatically
- CAD model available immediately
- Fully automated processing
- You can order fully assembled or unassembled systems through the online shop
- Lots of possible options

Single-axis system

① Single-axis system



Single-axis movement
Single-axis module as a complete system.
Easy to connect to your own front unit.

Animation

2D linear gantry

② 2D linear gantry



Movements in 2D in the vertical working space:
Linear gantries as complete systems.
Combining electric and pneumatic axes is possible.

Animation

2D planar surface gantry

③ 2D gantry



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.

Animation

3D gantry

④ 3D gantry



Movements in 3D:
Three-dimensional gantries as complete systems.
Combining electric and pneumatic axes is possible.

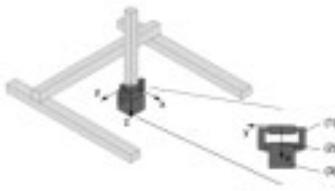
Animation

Entering the application data

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

Payload

Find your handling system in a few steps



Definition of payload
 ①/Axis feature
 ②/Center of gravity
 ③/Your workplace

Specify the characteristic values of the payload

Payload (horizontal extension)	<input type="text" value="150"/>	mm
Distance from the centre of the load	X <input type="text" value=""/>	mm
	Y <input type="text" value=""/>	mm
	Z <input type="text" value=""/>	mm
Working stroke (axis travel) unit	<input type="radio"/> No	
	<input type="radio"/> Yes	

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Result of calculation

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

The following are available immediately:

- CAD model
- Technical data for the selected system
- Price information

Result of calculation

Find your handling solution in 5 steps

Select the appropriate system and coordinate with the configurations:

No.	Qty	System series	System workload	Repetition accuracy [μm]
30	1	YGR-1	77%	± 15 μm
31	2	YGR-1	27%	± 15 μm
32	3	YGR-1	36%	± 15 μm
33	4	YGR-1	27%	± 15 μm
34	5	YGR-1	36%	± 15 μm

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30 gantry YGR-1-2-01

Drive module	Gear units	Motor type	Motor position	Motor controller	Electrical voltage phases	Cable workload	Cable workload	Idle workload
1 module: motor/encoder EDC-40	1:1	Servo motor EMNLAS	Left	DAU5-40	1 phase	23%	2%	8%
1 module: motor/encoder EDC-40-125	1:1	Servo motor EMNLAS	Left	DAU5-40	1 phase	25%	3%	9%
2 module: Cartesian axis, motor/encoder CGA-10	1:1	Servo motor EMNLAS	Right	DAU5-40	1 phase	9%	40%	77%

Please note:
The calculation is valid for the following requirements:

- Operating pressure 4 bar
- Motor controller controller 400V/50Hz
- No turning or extractions after load set

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

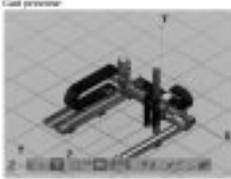
Find your handling solution in 5 steps

Your selected system overview

Your modules	Value
Construction	Linear
Handling type	3D gantry
Payload	12kg
Repeatability position	±15
Drive system of the X-axis	Electric linear position
Drive system of the Y-axis	Electric linear position
Drive system of the Z-axis	Electric linear position
Working stroke in X direction	200mm
Working stroke in Y direction	200mm
Working stroke in Z direction	200mm
Motor position series X-axis	Left
Motor position series Y-axis	Left
Motor position series Z-axis	10 positions via CANopen integrated
Power interface	200V
AC 1 phase	400V
Travel horizontal X direction	200mm
Travel horizontal Y direction	200mm
Travel horizontal Z direction	200mm
Travel vertical X direction	200mm
Travel vertical Y direction	200mm
Travel vertical Z direction	200mm
Travel time	15s

Your system
Your options

3D preview



Your next step: [View CAD model](#)

Three-dimensional gantries

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 HGO configurator on the “Result of calculation” page.

Result of calculation
Find your handling solution in 4 steps

Select the appropriate systems and continue with the configuration:

No.	System series
<input type="checkbox"/> 1	YKCH-2
<input type="checkbox"/> 2	YKCH-2
<input type="checkbox"/> 3	YKCH-2
<input type="checkbox"/> 4	YKCH-2
<input type="checkbox"/> 5	YKCH-2

3D gantry YKCH-2: #1

Drive module	Gear ratio	Motor type
X-module toothed belt axis EGC-KF	8:1	Servo/NER/EMD-A3
Y-module toothed belt axis EGC-HD-TB	8:1	Servo/NER/EMD-A3
Z-module Cantilever axis toothed DGEA-16	8:1	Servo/NER/EMD-A3

Drives/axes

X-axis

Toothed belt axis EGC-TB-KF



- Electrical
- 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



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

Toothed belt axis EGC-HD-TB



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

Z-axis

Mini slide DGSL



- Pneumatic
- Flat design
- High load capacity
- High dynamic response
- Easy adjustment of end positions

Mini slide EGSL



- Electrical
- Compact design
- High load capacity
- High dynamic response
- Easy adjustment of end positions

Toothed belt axis EGC-TB-KF



- Electrical
- Rigid, closed profile
- Recirculating ball bearing guide for high loads and torques
- High dynamic response and minimum vibration
- Small toothed disc diameter

Cantilever axis DGEA



- Electrical
- High rigidity
- High load capacity
- High dynamic response

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Key features

Drives/axes

Z-axis

Spindle axis EGC-BS-KF



- Electrical
- Rigid, closed profile
- Recirculating ball bearing guide for high loads and torques
- High dynamic response and minimum vibration
- Various spindle pitches

Possible axis combinations ¹⁾			
Size	X module	Y module	Z module
YXCR-1	<ul style="list-style-type: none"> • Toothed belt axis EGC-50-TB-KF 	<ul style="list-style-type: none"> • Toothed belt axis EGC-50-TB-KF 	<ul style="list-style-type: none"> • Mini slide pneumatic: DGSL-6 • electrical: EGSL-35
YXCR-2	<ul style="list-style-type: none"> • Toothed belt axis EGC-80-TB-KF 	<ul style="list-style-type: none"> • Toothed belt axis EGC-80-TB-KF • Toothed belt axis with heavy-duty guide EGC-HD-125-TB 	<ul style="list-style-type: none"> • Mini slide pneumatic: DGSL-12/16 • electrical: EGSL-45/55 • Cantilever axis DGEA-18 • Spindle axis EGC-70-BS-KF
YXCR-3	<ul style="list-style-type: none"> • Toothed belt axis EGC-120-TB-KF 	<ul style="list-style-type: none"> • Toothed belt axis EGC-120-TB-KF • Toothed belt axis with heavy-duty guide EGC-HD-160-TB 	<ul style="list-style-type: none"> • Mini slide pneumatic: DGSL-20/25 • electrical: EGSL-75 • Cantilever axis DGEA-25/40 • Spindle axis EGC-80-BS-KF
YXCR-4	<ul style="list-style-type: none"> • Toothed belt axis EGC-185-TB-KF 	<ul style="list-style-type: none"> • Toothed belt axis EGC-185-TB-KF • Toothed belt axis with heavy-duty guide EGC-HD-220-TB 	<ul style="list-style-type: none"> • Cantilever axis DGEA-40 • Spindle axis EGC-120-BS-KF

1) Drive package depending on configuration selected.

Three-dimensional gantries

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 HGO configurator on the “System configuration” page.



Motors and controllers

Servo motors EMMS-AS



- Dynamic, brushless, permanently excited servo motor
 - Digital absolute displacement encoder, single-turn or multi-turn
 - With optional brake
- Options:
- With or without brake
 - Type of encoder: single-turn or multi-turn

Gear unit EMGA



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

Stepper motors EMMS-ST



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

Motor controller 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

Options:

- Fieldbus interface
 - 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

Options:

- Fieldbus interface
 - CANopen
 - DeviceNet
 - PROFIBUS DP

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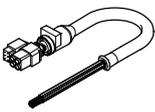
Ordering data – Accessories

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Module/motor combinations

We recommend that the 3D 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.

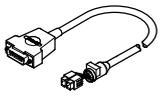
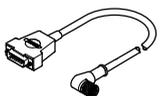
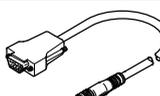
Module	Motor
X module	
EHMZ-EGC-50-TB-KF	EMMS-AS-40-M-LS-...
EHMZ-EGC-80-TB-KF	EMMS-AS-70-M-LS-...
EHMZ-EGC-120-TB-KF	EMMS-AS-100-M-HS-...
EHMZ-EGC-185-TB-KF	EMMS-AS-140-L-HS-...
Y module	
EHMY-...-EGC-50-TB-KF	EMMS-AS-40-M-LS-...
EHMY-...-EGC-80-TB-KF	EMMS-AS-70-S-LS-...
EHMY-...-EGC-120-TB-KF	EMMS-AS-100-S-HS-...
EHMY-...-EGC-125-TB-HD	EMMS-AS-70-S-LS-...
EHMY-...-EGC-160-TB-HD	EMMS-AS-100-S-HS-...
EHMY-...-EGC-185-TB-KF	EMMS-AS-100-S-HS-...
EHMY-...-EGC-220-TB-HD	EMMS-AS-140-S-HS-...
Z module	
EHMZ-DGEA-18-TB-KF	EMMS-AS-55-S-LS-...
EHMZ-DGEA-25-TB-KF	EMMS-AS-70-S-LS-...
EHMZ-DGEA-40-TB-KF	EMMS-AS-100-S-HS-...
EHMZ-EGC-70-BS-KF	EMMS-AS-55-S-LS-...
EHMZ-EGC-80-BS-KF	EMMS-AS-70-S-LS-...
EHMZ-EGC-120-BS-KF	EMMS-AS-100-S-HS-...
EHMZ-EGSL-35-BS-KF	EMMS-ST-28-L-...
EHMZ-EGSL-45-BS-KF	EMMS-AS-40-M-LS-...
EHMZ-EGSL-55-BS-KF	EMMS-AS-55-S-LS-...
EHMZ-EGSL-75-BS-KF	EMMS-AS-70-S-LS-...

Designation	Description	Cable length	Part No.	Type
For servo motor				
Motor cable ¹⁾				
	<ul style="list-style-type: none"> For servo motor EMMS-AS-40-M-LS-.../ EMMS-AS-55-S-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
Motor cable ¹⁾				
	<ul style="list-style-type: none"> 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

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

Three-dimensional gantries

Ordering data – Accessories

Designation	Description	Cable length	Part No.	Type
For servo motor				
Encoder cable¹⁾				
	<ul style="list-style-type: none"> For servo motor EMMS-AS-40-M-LS-.../ EMMS-AS-55-S-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
Encoder cable¹⁾				
	<ul style="list-style-type: none"> 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
For stepper motor				
Motor cable¹⁾				
	<ul style="list-style-type: none"> For stepper motor EMMS-ST-28-L-... 	1.5 m	1449600	NEBM-SM12G8-E-1.5-Q5-LE6
		2.5 m	1449601	NEBM-SM12G8-E-2.5-Q5-LE6
		5 m	1449602	NEBM-SM12G8-E-5-Q5-LE6
		7 m	1449603	NEBM-SM12G8-E-7-Q5-LE6
		10 m	1449604	NEBM-SM12G8-E-10-Q5-LE6
Encoder cable¹⁾				
	<ul style="list-style-type: none"> For stepper motor EMMS-ST-28-L-... 	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 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 plug connectors 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)	■	■	■	–	–

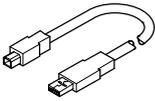
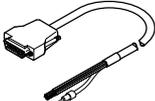
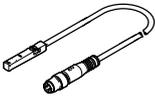
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Ordering data – Accessories

Standard components within the handling system

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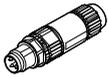
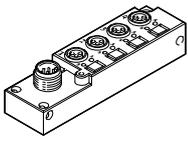
Designation	Description	Cable length	Part No.	Type	
Programming cable					
	<ul style="list-style-type: none"> High-speed USB 2.0 connecting cable 	1.8 m	1501332	NEBC-U1G4-K-1.8-N-U2G4	
Control cable					
	<ul style="list-style-type: none"> For I/O interface to any controller 	2.5 m	552254	NEBC-S1G25-K-2.5-N-LE26	
Proximity sensor (inductive) for sensing the position of the slide on the X-/Z-axis					
	Cable with open end				
	<ul style="list-style-type: none"> For toothed belt axis EGC-TB 	PNP, N/C contact	7.5 m	551391	SIES-8M-PO-24V-K-7,5-OE
	<ul style="list-style-type: none"> For spindle axis EGC-BS 	PNP, N/O contact	7.5 m	551386	SIES-8M-PS-24V-K-7,5-OE
	<ul style="list-style-type: none"> For mini slide EGSL 	NPN, N/C contact	7.5 m	551401	SIES-8M-NO-24V-K-7,5-OE
	<ul style="list-style-type: none"> For DC voltage 	NPN, N/O contact	7.5 m	551396	SIES-8M-NS-24V-K-7,5-OE
	Included if “Festo sensor package” is selected:				
	<ul style="list-style-type: none"> 2 pieces 				
Proximity sensor (inductive) for sensing the position of the slide on the Y-axis					
	Cable with plug				
	<ul style="list-style-type: none"> For toothed belt axis EGC-TB, 	PNP, N/C contact	0.3	551392	SIES-8M-PO-24V-K-0,3-M8D
	<ul style="list-style-type: none"> EGC-HD-TB 	PNP, N/C contact	2.5	551393	SIES-8M-PO-24V-K-2,5-M8D
	<ul style="list-style-type: none"> For DC voltage 	PNP, N/O contact	0.3	551387	SIES-8M-PS-24V-K-0,3-M8D
	Included if “Festo sensor package” is selected:	PNP, N/O contact	2.5	551388	SIES-8M-PS-24V-K-2,5-M8D
	<ul style="list-style-type: none"> 2 pieces 	NPN, N/C contact	0.3	551402	SIES-8M-NO-24V-K-0,3-M8D
		NPN, N/C 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	

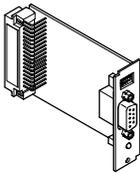
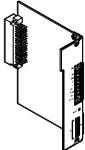
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Ordering data – Accessories

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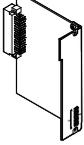
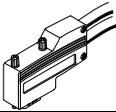
Designation	Description	Cable length	Part No.	Type
Proximity sensor (inductive) for sensing the position of the slide on the Z-axis				
	Cable with open end			
	• For cantilever axis DGEA	PNP, N/C contact	2.5 m	150398 SIEN-M8NB-PO-K-L
	• For DC voltage	PNP, N/O contact	2.5 m	150394 SIEN-M8NB-PS-K-L
	Included if “Festo sensor package” is selected:	NPN, N/C contact	2.5 m	150396 SIEN-M8NB-NO-K-L
	• 2 pieces	NPN, N/O contact	2.5 m	150392 SIEN-M8NB-NS-K-L
Proximity sensor (magneto-resistive) for sensing the position of the slide on the Z-axis				
	Cable with open end			
	• For mini slide DGSL	PNP, N/O contact	2.5 m	551373 SMT-10M-PS-24V-E-2,5-L-OE
	• For DC voltage	NPN, N/O contact	2.5 m	551377 SMT-10M-NS-24V-E-2,5-L-OE
	Included if “Festo sensor package” is selected:			
	• 2 pieces			

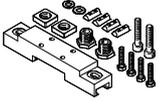
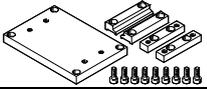
Designation	Description	Cable length	Part No.	Type
Plug socket with cable				
	• Connection between multi-pin plug distributor and control cabinet	5 m	525618	SIM-M12-8GD-5-PU
		10 m	570008	SIM-M12-8GD-10-PU
Plug connector				
	• For connection to the multi-pin plug distributor	–	562024	NECU-S-M8G3-HX
Multi-pin plug distributor				
	• With the help of the multi-pin plug distributor, electrical signals such as end-position sensing can be collectively transferred Options: – 4 individual connections – 6 individual connections	–	574586	NEDU-L4R1-M8G3L-M12G8
			574587	NEDU-L6R1-M8G3L-M12G8

Designation	Description	Part No.	Type
Interface			
	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
Safety module			
	For safe torque off (STO)	1501330	CAMC-G-S1

Three-dimensional gantries

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Designation	Description	Part No.	Type
Switch module			
	If the safety module CAMC-G-S1 is not used, the switch module is absolutely essential for operating of the motor controller CMMP-AS-...-M3	1501329	CAMC-DS-M1
Bus connection			
	For DeviceNet interface	525635	FBSD-KL-2X5POL
Plug connector			
	For CANopen interface	533783	FBS-SUB-9-WS-CO-K
	For PROFIBUS interface	533780	FBS-SUB-9-WS-PB-K

Designation	Description	Part No.	Type
Adjusting kit			
	<ul style="list-style-type: none"> Used to mount the handling system on the bearing surface Can be used to compensate any unevenness in the bearing surface 	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
Profile mounting			
	<ul style="list-style-type: none"> Used to mount the handling system on the bearing surface It is not height-adjustable 	–	

Three-dimensional gantries

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