



Key features

At a glance

The 3-dimensional gantry facilitates movement in 3D space.

Depending on the requirements, the gantry is either composed of several axis modules (YXCR) or using the planar surface gantries EXCM or EXCH (YXMR). All of these are tried-andtested components from Festo.

- 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 electric components - freely combinable
- As an electrical solution freely positionable/any intermediate positions

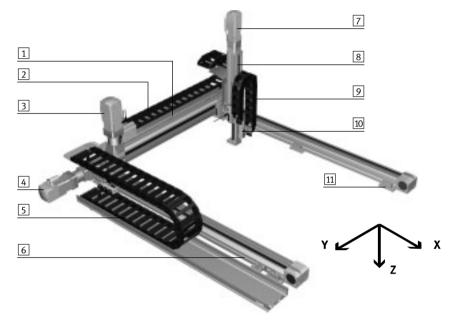
Sample image:

Range of application:

• For any movements in 3D space

FESTO

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

Description of the modules

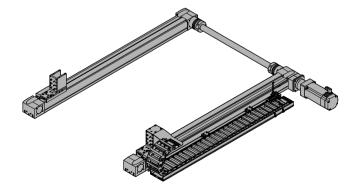
X-module

Configuration:

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 installed 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 proximity sensor (if sensor package has been selected)



```
Energy chain for X-module
```

Key features

Description of the modules

Y-module

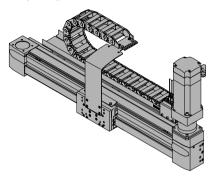
Configuration:

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

Sample image:

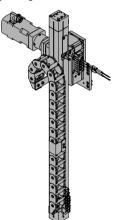


Z-module

Configuration:

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:



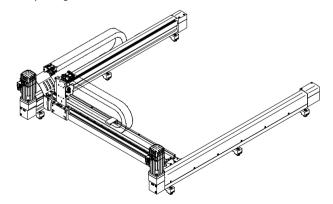
XY-module (EXCM, EXCH)

Configuration:

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 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:



2019/04 - Subject to change

Key features

Description of the modules

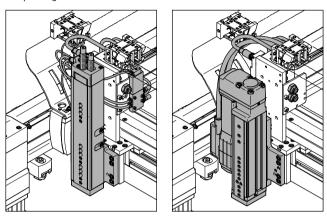
Z-module (EXCM, EXCH)

Configuration:

The Z-module comprises either an electric drive (EHMZ) or a pneumatic drive (DHMZ).

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

Sample image:



Dispatch options

Fully assembled:

The 3-dimensional 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 flatness \rightarrow table below.

Partially assembled:

The 3-dimensional gantry 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 (→ page 11) are enclosed. Note flatness → 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 dyn	amic response		
Required flatness of the mounting	≤ 0.1 mm/m			
surface				
Mounting position	Horizontal			

Size	YXMR-1	YXMR-2	YXMR-3
Max. working stroke	X: 700 mm	X: 2000 mm	X: 2500 mm
	Y: 510 mm	Y: 1000 mm	Y: 1500 mm
	Z: 100 mm (electric)	Z: 200 mm (electric)	Z: 200 mm
	150 mm (pneumatic)	150 mm (pneumatic)	
Max. payload	Dependent on the selected dynamic respo	onse	
Required flatness of the mounting	≤ 0.1 mm/m		
surface			
Mounting position	Horizontal		

1) Drive package depending 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
- 2D 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



• You can order fully or partially assembled systems through the Online Shop

FESTO

• Lots of possible options



Selecting the handling solution

Tothe I your tarefiling system.			an and a state
C Single site system	r-1	Bright and incomment Single-and notable as compate system. Easy to consolve your own heat and 20 Annualize	En concentration En concentration En concentration En concentration
0.25 lines gality	÷	Measurets = 10 is the seried anticipulation Unany particle as canada activity. There's and parameter pairs can be continued 12 Annualize	Handbag unlabor Stantiset system If Save system If Laborations Relatively some
Ottaanty	\Rightarrow_{\times}	Movements in 2014 the foregoing webling against Parate and was gointeen as complete systems, contenting-executing again days to connect the para roun 2 and III Annabos	
* 22 gastry	*	Manamerica e 321 Trans-dimensional gardines as campade systems. Dentrie and presentes also can be completed II Annualem	

Entering the application data

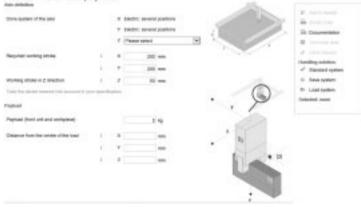
• Drive system of the axis

Payload

- Distance from the centre of the load Working stroke
 - Reference cycle



Axis definition and payload



3-dimensional gantries 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

	84.	System andre	System workload	manning 010	in 2040 GAD
8	1	1003912	8.9	0.11 mm	10 Technical data
		100394.0	11.1	0.11	 Sent request
		100942	15.5	10:11 man.	Parallel scipling
		1009-2	11.5	10:11 minut.	- Standard some
α.		10064	45	0.11 mm	11 Sava system Tr- Load system
O gastry 'O		X module motival test and	Y make systematical and	7 module (Tarmer wire side	Tolachd spinss #
		880.00	800.40	8108-40	
inter .		300 met	800 mm	100 mm	
legentition of	1111 (111)	0.06 min	0.0km	0.02 mm	
los etc.		01	61	Virtual	
		Service IAMS-82	Derro molar DMM3-42	Detra milai (0880-40	
these particular	-	1984 Part of Contract of Contr	Left .	Top	
Man Lords	fire .	CAMP-ALME	OMPAGED	COMPLEX.AD	
ferring and	inter photos	Lations	Labore	Labore	

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 Add to base C137963 10 2010 LAD Ξ In process Technical data of super Tarm system the Lond series

Value



6223

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.

	-	Capital Labor	former restored		in pre-sec
		14000	**	10.00	I Income
		10000		10.00	/ Invitate
		140301	**	1.0.00	the distance in the local distance in the lo
		100/04/	4.5	0.00.000	J internet
		(mailed)	**	1	a testater
		Courses indext of set	President loading in the	Desire Maderman	
		EDG-ED-	100-00	128-10	
-		10.00	and the second s	10.44	
trainer a	internation in the	0.00100	10000	And and a second	
-		¥7.		1994	
And in the		Date was been at	frage exection of	Character and a second second	
links pails		-	14	5m	
-		0.000.01	1000.12	1000.01	
-		to other	No. of Concession, Name	the same	

Drives/axes

X-axis Toothed belt axis EGC-TB-KF



• Electric

• Electric

• Rigid, closed profile

minimum vibration

- Rigid, closed profile
- Recirculating ball bearing guide for high loads and torques

• Recirculating ball bearing guide for high loads and torques

• High dynamic response and

• High dynamic response and minimum vibration



Toothed belt axis EGC-TB-KF







Spindle axis EGC-BS-KF



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

• Electric

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



• 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
- Electric
- Compact design
- High load capacity
- High dynamic response
- Easy adjustment of end positions
- Electric
- High rigidity
- High load capacity
- High dynamic response







Toothed belt axis EGC-HD-TB

Mini slide EGSL

3-dimensional gantries Key features

Drives/axes Z-axis

Mini slide EGSC



- Electric
- Compact design
- High load capacity
- Precision guide and ball screw drive
- Easy adjustment of end positions

Possible axis combinations¹)

Size	X-module	Y-module	Z-module
YXCR-1	• Toothed belt axis EGC-50-TB-KF	• Toothed belt axis EGC-50-TB-KF	Mini slide Pneumatic: DGSL-6 Electric: EGSL-35
YXCR-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 	Mini slide Pneumatic: DGSL-12/16 Electric: EGSL-45/55 Cantilever axis DGEA-18 Spindle axis EGC-70-BS-KF
YXCR-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 	 Mini slide Pneumatic: DGSL-20/25 Electric: EGSL-75 Cantilever axis DGEA-25/40 Spindle axis EGC-80-BS-KF
YXCR-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 	 Cantilever axis DGEA-40 Spindle axis EGC-120-BS-KF
YXMR-1	Planar surface gantry EXCM-30	Planar surface gantry EXCM-30	Mini slide Pneumatic: DGSL-8/10/12 Electric: EGSC-25/32
YXMR-2	• Planar surface gantry EXCM-40, EXCH-40	Planar surface gantry EXCM-40, EXCH-40	Mini slide Pneumatic: DGSL-16 Electric: EGSL-45
YXMR-3	Planar surface gantry EXCH-60	• Planar surface gantry EXCH-60	Mini slide Pneumatic: DGSL-20 Electric: EGSL-55

1) Drive package depending on configuration selected.

1

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.

System configuration		diaman .		
Page of a second s				
transfer-i-me	+	(horse and		140
Brin-tale		A Date		
		Y-Des.	***	
		7.844		
		diamont in	-	
Provide and Advances of the Ad				
0.000				
Bath collaboration in the second		19980-11		
Bear unitable 1 and		10000-07		
main-criterine for charac-		10000.07		
Farmer ranks		of another a	-	
Sector (Address in Parket 6.4)	1	414	10	
Responses to the			1.04	
		-		
100.000.000		Contractory in		
Tatrice inter		Concerner of	-	10

12 - Standard 13 - Standard 13 - Standard 13 - Standard 14 - S

Motors and controllers

Servo motors EMMS-AS



Stepper motors EMMS-ST



Gear unit EMGA



Motor controller CMMP-AS for servo motor



- Dynamic, brushless, permanently excited servo motor
- Digital absolute displacement encoder in single-turn or multi-turn version
- With optional brake
- 2-phase hybrid technology
- Step angle 1.8°
- With optional brake
- Low-backlash planetary gear
- Gear ratio

interface

- i = 3 and 5
- Life-time lubrication

• Complete integration of all

• Integrated brake chopper

• Integrated EMC filters

components for controller and

power section, including USB

• Automatic activation for a brake

Selectable:

- 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



Servo motors EMME-AS

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

2019/04 - Subject to change

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.

	1.000		
+	(instant)		100
	A Date		
	Y-Des	1.	
	7.844		
	diamont in	-	
	19965-11		
	10000-017		
	1999.07		
	10	10000	
1	414	0.	
	814	1.04	
	- C	-	2.4
	100		10
		A Day F Day F Bay Description Statistics Statisti	A Day 4 m C Day 4 m T Bay Barrier and and a C Day 5 m C Day 5

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

Selectable:

• Safety function: safe torque off (STO)/category 3, Performance level d

Bus protocols

- CANopen
- DeviceNet®
- PROFIBUS DP

Motor controller CMMO-ST for stepper motor



- Separate load and logic supply
- Monitoring of freely defined positions and torque ranges
- Backup file enables seamless
 device replacement
- Encoder option (closed loop), in other words no step losses, following errors are corrected Selectable:
- Safety function: safe torque off (STO)/category 3, Performance level e
- Selectable:
- Safety function: safe torque off (STO)/category 3, Performance level e

- Easy activation via:
 I/O interface
 - IO-Link or I-Port
 - Modbus TCP

• Bus protocols

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

Controller CMXH-ST2 for stepper motor



• The controller controls two servo stepper motors which drive an H-shaped rotating toothed belt. The toothed belt moves a slide, whose position is calculated by the controller from the encoder signals of the motors

Module/motor combinations

We recommend that the 3-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	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	EMMS-AS-70-M-LS	EMME-AS-60-M-LS	EMMS-ST-57-S
EHMX-EGC-120-TB-KF	EMMS-AS-100-M-HS	EMME-AS-80-S-LS	_
EHMX-EGC-185-TB-KF	EMMS-AS-140-L-HS	-	-
Y-module			
EHMYEGC-50-TB-KF	-	EMME-AS-40-S-LV	EMMS-ST-57-M
EHMYEGC-80-TB-KF	EMMS-AS-55-S-LS	EMME-AS-60-M-LS	EMMS-ST-57-S
EHMYEGC-120-TB-KF	EMMS-AS-100-S-HS	EMME-AS-80-S-LS	EMMS-ST-87-S
EHMYEGC-125-TB-HD	EMMS-AS-70-S-LS	EMME-AS-60-M-LS	EMMS-ST-57-S
EHMYEGC-160-TB-HD	EMMS-AS-100-S-HS	EMME-AS-80-S-LS	EMMS-ST-87-S
EHMYEGC-185-TB-KF	EMMS-AS-100-M-HS	EMME-AS-100-M-HS	-
	EMMS-AS-140-S-HS		
EHMYEGC-220-TB-HD	EMMS-AS-100-M-HS	EMME-AS-100-M-HS	-
	EMMS-AS-140-S-HS		
Z-module			
EHMZ-DGEA-18-TB-KF	EMMS-AS-55-S-LS	EMME-AS-60-M-LS	EMMS-ST-57-S
EHMZ-DGEA-25-TB-KF	EMMS-AS-70-S-LS	EMME-AS-60-M-LS	EMMS-ST-57-S
EHMZ-DGEA-40-TB-KF	EMMS-AS-100-S-HS	EMME-AS-80-M-LS	-
EHMZ-EGC-70-BS-KF	EMMS-AS-55-S-LS	EMME-AS-60-M-LS	EMMS-ST-57-S
EHMZ-EGC-80-BS-KF	EMMS-AS-70-S-LS	EMME-AS-60-M-LS	EMMS-ST-57-S
EHMZ-EGC-120-BS-KF	EMMS-AS-100-S-HS	EMME-AS-80-S-LS	-
EHMZ-EGSL-35-BS-KF	-	EMME-AS-40-S-LV	EMMS-ST-28-L
EHMZ-EGSL-45-BS-KF	EMMS-AS-40-M-LS	EMME-AS-40-S-LV	EMMS-ST-57-S
EHMZ-EGSL-55-BS-KF	EMMS-AS-55-S-LS	EMME-AS-60-M-LS	EMMS-ST-57-S
EHMZ-EGSL-75-BS-KF	EMMS-AS-70-M-LS	EMME-AS-80-S-LS	EMMS-ST-87-S
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	-	-
Z-module (EXCM, EXCH)			
EHMZ-EGSC-BS-KF-25V1	-	-	EMMS-ST-28-L
EHMZ-EGSC-BS-KF-32V1		-	EMMS-ST-42-S
EHMZ-EGSL-45-BS-KF	EMMS-AS-40-M-LS	-	-
EHMZ-EGSL-55-BS-KF	EMMS-AS-55-S-LS		



Designation	Description	Cable length	Part no.	Туре
For servo motor				
Motor cable ¹⁾				
	• For servo motor EMMS-AS-40-M-LS/	5 m	550306	NEBM-T1G8-E-5-Q7N-LE8
	EMMS-AS-55-S-LS	10 m	550307	NEBM-T1G8-E-10-Q7N-LE8
		15 m	550308	NEBM-T1G8-E-15-Q7N-LE8
Motor cable ¹⁾				
	• For servo motor EMMS-AS-70-S-LS/	5 m	550310	NEBM-M23G8-E-5-Q9N-LE8
	EMMS-AS-70-M-LS/EMMS-AS-100-S-HS/	10 m	550311	NEBM-M23G8-E-10-Q9N-LE8
	EMMS-AS-100-M-HS/EMMS-AS-100-S-HS/	15 m	550312	NEBM-M23G8-E-15-Q9N-LE8
	EMMS-AS-140-L-HS	17 11	550512	NEDM-M2500-E-15-Q3N-LEO
Encoder cable ¹⁾				
	• For servo motor EMMS-AS-40-M-LS/	5 m	550314	NEBM-T1G8-E-5-N-S1G15
	EMMS-AS-55-S-LS	10 m	550315	NEBM-T1G8-E-10-N-S1G15
St Soll		15 m	550316	NEBM-T1G8-E-15-N-S1G15
Encoder cable ¹⁾				
	• For servo motor EMMS-AS-70-S-LS/	5 m	550318	NEBM-M12W8-E-5-N-S1G15
	EMMS-AS-70-M-LS/EMMS-AS-100-S-HS/	10 m	550319	NEBM-M12W8-E-10-N-S1G15
AL AL	EMMS-AS-100-M-HS/EMMS-AS-140-S-HS/ EMMS-AS-140-L-HS	15 m	550320	NEBM-M12W8-E-15-N-S1G15
For stepper motor				
Motor cable ¹⁾				
	• 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
		1	1	
Motor cable ¹⁾	Ear standar mater EMMS ST /2 S /EMMC ST F7 M	2.5 m	1/50260	
	• 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

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

Designation	Description	Cable length	Part no.	Туре
For stepper motor				
Encoder cable ¹⁾				
	• For stepper motor EMMS-ST-28-L/EMMS-ST-42-S/	5 m	550748	NEBM-M12G8-E-5-S1G9
	EMMS-ST-57-M and motor controller CMMS-ST	10 m	550749	NEBM-M12G8-E-10-S1G9
ALP I		15 m	550750	NEBM-M12G8-E-15-S1G9
Encoder cable ¹⁾		l		
	• For stepper motor EMMS-ST-28-L and motor controller CMMO-ST	2.5 m	1451587	NEBM-M12G8-E-2.5-LE8
DI (5 m	1451588	NEBM-M12G8-E-5-LE8

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 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)				-	-

Standard components within the handling system

FESTO

Standald components (ing system				
The handling system com number of tried-and-test components from Festo. I components are used de the configuration. You ca scope and design of the a the configurator HGO on configuration" page.	ed standard Different pending on n alter the accessories in	System configuration Name in Conservation Name in Conservation		IF INTERNAL III Destroyan III Terranal III Terranal IIII Terranal IIII Terranal IIIII Terranal IIIII Terranal IIIIII Terranal IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		
Designation	Description			Cable length	Part no.	Туре
Programming cable						
	High-speedFor control	d USB 2.0 connecting cable ler CMMP-AS		1.8 m	1501332	NEBC-U1G4-K-1.8-N-U2G4
	For control	ler CMMS-ST		2 m	160786	PS1-ZK11-NULLMODEM-2,0M
Control cable (for I/O int	terface to any cor	ntroller)				
		ler CMMP-AS, CMMS-ST		2.5 m	552254	NEBC-S1G25-K-2.5-N-LE26
	 For control 	ler CMMO-ST		3.2 m	8001373	NEBC-S1G25-K-3.2-N-LE25
and a le	 For control 	ler CMXH-ST2		2.5 m	2052917	NEBC-S1H15-E-2.5-N-LE15
Proximity sensor (induct	tive) for sensing	he position of the slide on t	he X-/Z-axis			
	Cable with op					
all	For toother	d belt axis EGC-TB	PNP, N/C contact	7.5 m	551391	SIES-8M-PO-24V-K-7,5-OE
EPS /	• For spindle	e axis EGC-BS	PNP, N/O contact	7.5 m	551386	SIES-8M-PS-24V-K-7,5-OE
4	• For mini sl	ide EGSL				· · · · · · · · · · · · · · · · · · ·
	• For direct v	voltage	NPN, N/C contact	7.5 m	551401	SIES-8M-NO-24V-K-7,5-0E
	Included if "F selected: • For EGC: 2 For EGSL: 1		NPN, N/O contact	7.5 m	551396	SIES-8M-NS-24V-K-7,5-OE
Proximity sensor for sen	ising the positior	of the slide on the X-axis				
E.		40, EXCH-40, EXCH-60	N/O contact	-	150491	SIES-V3B-PS-S-L
	For EXCM-4	40, EXCH-40, EXCH-60	N/C contact	-	174552	SIES-Q8B-PO-K-L
Drovimity concer (in duct	tive) for consist	the position of the slide on t	ho V avic			
	Cable with pl					
		d belt axis EGC-TB,	PNP, N/C contact	0.3	551392	SIES-8M-PO-24V-K-0,3-M8D
E BE	 For toothed EGC-HD-TB 		PNP, N/C contact	2.5	551392	SIES-8M-P0-24V-K-0,3-M8D SIES-8M-P0-24V-K-2,5-M8D
all'	For direct v		PNP, N/C contact	0.3	551393	SIES-8M-PS-24V-K-0,3-M8D
		esto sensor package" is	PNP, N/O contact			SIES-8M-PS-24V-K-0,3-M8D SIES-8M-PS-24V-K-2,5-M8D
		esio selisoi package is	rive, iv/O contact	2.5	551388	JIJ-0WI-FJ-24V-K-2,J-WI&D

NPN, N/C contact

NPN, N/C contact

NPN, N/O contact

NPN, N/O contact

0.3

2.5

0.3

2.5

551402

551403

551397

551398

selected:

• 2 pieces

SIES-8M-NO-24V-K-0,3-M8D

SIES-8M-NO-24V-K-2,5-M8D

SIES-8M-NS-24V-K-0,3-M8D

SIES-8M-NS-24V-K-2,5-M8D

Designation	Description	Description			Туре		
Proximity sensor (in	ductive) for sensing the position of the slide on t	he Z-axis					
A CONTRACT OF A	Cable with open end	Cable with open end					
	For cantilever axis DGEA	PNP, N/C contact	2.5 m	150398	SIEN-M8NB-PO-K-L		
	• For direct voltage	PNP, N/O contact	2.5 m	150394	SIEN-M8NB-PS-K-L		
	Included if "Festo sensor package" is	NPN, N/C contact	2.5 m	150396	SIEN-M8NB-NO-K-L		
	selected:	NPN, N/O contact	2.5 m	150392	SIEN-M8NB-NS-K-L		
	• 2 pieces						
				1			
Proximity sensor (ma	agnetoresistive) for sensing the position of the s	lide on the Z-axis					
	Cable with open end						
and and	• For mini slide DGSL	PNP, N/O contact	2.5 m	551373	SMT-10M-PS-24V-E-2,5-L-OE		
	• For direct 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:			1			
	• 2 pieces			1			

Designation	Description	Cable length	Part no.	Туре		
Plug socket with cable						
	Connection between multi-pin plug distributor and control cabinet		525618	SIM-M12-8GD-5-PU		
			570008	SIM-M12-8GD-10-PU		
Plug						
	• 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, all electrical	-	574586	NEDU-L4R1-M8G3L-M12G8		
C C C C C C C C C C C C C C C C C C C	signals such as for end-position sensing can be transferred Selectable: – 4 individual connections – 6 individual connections		574587	NEDU-L6R1-M8G3L-M12G8		

Designation	Description	Part no.	Туре
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
المع	For PROFIBUS DP	547450	CAMC-PB
Cafatura dula			
Safety module	• For safe torque off (STO)	1501330	CAMC-G-S1
		1301330	CAINC-U-SI
Switch module			
	• If the safety module CAMC-G-S1 is not used, the switch module is absolutely essential for operating the motor controller CMMP-ASM3	1501329	CAMC-DS-M1
Bus connection			
Contraction	For DeviceNet interface	525635	FBSD-KL-2X5POL
		1	
Plug			
A.	For CANopen interface	533783	FBS-SUB-9-WS-CO-K
	For PROFIBUS interface	533780	FBS-SUB-9-WS-PB-K

Designation	Description	Part no.	Туре				
Braking resistor	Braking resistor						
	 For EXCH-40 Essential for a vertical mounting position 	2882342	CACR-LE2-50-W500				
	 For EXCH-60 Essential for a vertical mounting position 	2882343	CACR-KL2-40-W2000				

Designation	Description		Part no.	Туре
Mounting kit				
	• Mounting kit for the energy chain and a Z-axis, like EGSL, DGSL	EXCM-30	4070088	EAHT-E9-FB-3D-30
Adjusting kit				
	• Height-adjustable mounting kit	EXCM-30	4070088	EADC-E11-30
Sensor mounting		I		
	 For homing in combination with third-party motors 	EXCM-30	4070088	EAPR-E11-30
Energy chain				
	• As a cable guide for the Z-axis	EXCM-30	8059999 8060324	EADH-U-3D-30 EADH-U-3D-40
Connector set	Holder for mounting the energy chain	EXCM-30	8060325 8060326	EAHT-AE-3D-30 EAHT-AE-3D-40
			4	
Sensor mounting	• For mounting the proximity sensors	EXCM-40, EXCH-40	2536353	EAPR-E12-40
	SIES-Q8B, SIES-V3B on the X-axis	EXCH-60	2478805	EAPR-E12-60
9				
Adjusting tool				
00 ¹³	For aligning and checking the levelness of	of the planar surface gantry	3197697	EADT-W-E12
Adjusting kit				
e esta	• Used to mount the handling system on	EHMYEGC-50-TB-KF	8047565	EADC-E15-50-E7
	the bearing surface	EHMYEGC-80-TB-KF	8047566	EADC-E15-80-E7
	• Can be used to easily compensate for any unevenness in the bearing surface	EHMYEGC-120-TB-KF EHMYEGC-185-TB-KF	8047567 8047568	EADC-E15-120-E7 EADC-E15-185-E7
Profile mounting				
Used to mount the handling system on the bearing surface It is not height-adjustable			-	

3-dimensional gantries Programming aid

Easy programming with

FCT software – Festo Configuration Tool

Software platform for electric drives from Festo

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