



## Key features

## At a glance

- General
- Optimal dynamic response when compared with other Cartesian gantry systems
- The drive concept ensures low moving dead weight
- Flat system design
- Flexible motor mountings
- High acceleration in both axis directions

#### Functional principle

A slide is moved in a two-dimensional space (XY-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 guide pulleys so that the slide can move to any position in a working space when the motors are actuated accordingly.

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





#### Application examples

- Fast repositioning of parts and modules in a large, rectangular working space, e.g.:
- Sorting
- Loading, unloading
- Gluing, cutting

- **Note** Additional multi-axis controller required for interpolation (e.g. CPX-E-CEC-M1-...).

Туре		EXCH-40	EXCH-60
Guide		Recirculating ball bearing guide	
Stroke of the			
X-axis	[mm]	200 2000	500 2500
Y-axis	[mm]	200 1000	500 1500
Z-axis	[mm]	50, 100, 150, 200	
Rated load at max. dynamic response <sup>1)</sup>	[kg]	4	6
Max. speed			
Horizontal	[m/s]	5	5
Vertical	[m/s]	4	3
Max. acceleration			
Horizontal	[m/s <sup>2</sup> ]	50	
Vertical	[m/s <sup>2</sup> ]	30	
Repetition accuracy <sup>2)</sup>	[mm]	±0.1	
Mounting position <sup>3)</sup>		Horizontal or vertical	

1) Rated load = tool load (attachment component (Z-axis) + e.g. gripper) + payload

2) The repetition accuracy relates to the centre point of the slide

3) Vertical mounting position only permitted with motors with brake and braking resistors

## Key features

#### Motor attachment variants

Sample product image, motors not included in the scope of delivery!



0

- **Note** During commissioning, the motor brake must be released for safety purposes.

## Key features

#### Selection of attachment components Without attachment component



delivery:

- [1] 2 supply ports for e.g. Z-axis
- [2] Multi-pin plug distributor (6-way)
  - for bundling signals: - e.g. proximity switch

Additional information  $\rightarrow$  page 15

Type codes

001	Series
EXCH	Planar surface gantry
002	Size
40	40
60	60
003	Stroke of the X-axis [mm]
200	200
2500	2500
004	Stroke of the Y-axis [mm]
200	200
1500	1500
005	Guide
KF	Recirculating ball bearing guide
006	Motor type
W	Without motor

007	Motor attachment position
В	Underneath
Т	Тор
008	Energy chain connection side
L	Left
009	Attachment components
ТО	None
010	Cable length
5K	5 m
10K	10 m
011	Mounting kit
011 P	Mounting kit With mounting kit

# Peripherals overview



Proximity switch for sensing the position of the slide on the Y-axis



# Peripherals overview

Attachments and accessories				
Туре		Description	→ Page/Internet	
[1]	Planar surface gantry EXCH	-	8	
[2]	Multi-pin plug distributor NEDU	<ul> <li>For connecting up to 6 inputs/outputs</li> <li>Included in the scope of delivery of the planar surface gantry</li> </ul>	nedu	
[3]	Plug socket with cable SIM	<ul> <li>Connecting cable between multi-pin plug distributor NEDU and the controller</li> <li>Included in the scope of delivery of the planar surface gantry</li> </ul>	sim	
[4]	Energy chain	<ul> <li>For EXCH-40: type IGUS E6.29.040.075.0</li> <li>For EXCH-60: type IGUS E6.35.050.075.0</li> </ul>	-	
[5]	Sensor mounting EAPR	<ul> <li>For mounting the proximity switches SIES-Q8B, SIES-V3B on the X-axis</li> <li>Not included in the scope of delivery of the planar surface gantry</li> </ul>	26	
[6]	Proximity switch SIES-Q8B	<ul> <li>For position sensing on the X-axis</li> <li>Not included in the scope of delivery of the planar surface gantry</li> </ul>	27	
[7]	Proximity switch SIES-V3B	<ul> <li>For position sensing on the X-axis</li> <li>Not included in the scope of delivery of the planar surface gantry</li> </ul>	27	
[8]	Mounting kit EAHM-E12	Non-height-adjustable mounting kit for the planar surface gantry	26	
[9]	Adjusting kit EADC-12	<ul> <li>Height-adjustable mounting kit for the planar surface gantry</li> <li>Included in the scope of delivery of the planar surface gantry. If no adjusting kit is selected in the modular product system, the mounting kit will automatically be delivered</li> </ul>	26	
[10]	Proximity switch SIES-8M	<ul> <li>For position sensing on the Y-axis</li> <li>Not included in the scope of delivery of the planar surface gantry</li> </ul>	27	
-	Plastic tubing PUN-H-6x1	Two pieces of tubing are connected to the bulkhead fittings and routed in the energy chains on delivery	pun	

### Datasheet

Size 40, 60



#### General technical data

Size		40	60
Design		Planar surface gantry	
Guide		Recirculating ball bearing guide	
Stroke of the			
X-axis	[mm]	200 2000	500 2500
Y-axis	[mm]	200 1000	500 1500
Rated load at max. dynamic response <sup>1)</sup>	[kg]	4	6
Max. torque <sup>2)</sup>	[Nm]	→ Page 12	
Max. no-load torque <sup>2)3)</sup>	[Nm]	→ Page 12	
Max. acceleration <sup>4)</sup>		·	
Horizontal	[m/s <sup>2</sup> ]	50	
Vertical	[m/s <sup>2</sup> ]	30	
Max. speed <sup>4)</sup>			
Horizontal	[m/s]	5	
Vertical	[m/s]	4	3
Repetition accuracy	[mm]	±0.1	
Mounting position <sup>5)</sup>		Horizontal or vertical	
Type of mounting		Mounting kit, adjusting kit	

1) Rated load = tool load (attachment component (Z-axis) + e.g. gripper) + payload

2) These values must also be complied with when installing third-party motors

3) At v=0.2 m/s and 45° travel.

This data applies only under ideal conditions.
 For a precise configuration, please consult a sales engineer from Festo.
 Additional information → page 12

5) Vertical installation only permitted with motors with brake and braking resistors

#### Factoring in software end positions

When selecting the strokes for the Xand Y-axis, the dimension L3 for the software end positions must be taken into account in addition to the working stroke L2. This dimension is freely selectable.

Adjusting pieces with L3 = 30 mm are included in the scope of delivery of the planar surface gantry.



Stroke L1 = working stroke L2 + 2x software end position L3

## Operating and environmental conditions

Size		40	60
Degree of protection		IP40	
Ambient temperature <sup>1)</sup>	[°C]	+10 +50	
Storage temperature	[°C]	-10 +60	
CE marking (see declaration of conformity)		To EU Machinery Directive	
UKCA marking (see declaration of conformity)		To UK instructions for machines	
Relative humidity	[%]	0 90 (non-condensing)	
Noise level	[dB(A)]	74	81
Duty cycle	[%]	100	

1) Note operating range of proximity switches and motors

#### Materials



Size		40	60
[1]	Drive and end caps	Aluminium	
[2]	Profiles of the X-axis	Aluminium	
[3]	Profile of the Y-axis	Aluminium	
[4]	Covering		
	X-axis	Aluminium	
	Y-axis	Aluminium	
[5]	Slide	Aluminium	
-	Coupling	Aluminium with elastomer ring gear	Clamping hub: Aluminium
			Expanding mandrel hub: Stainless steel
			Ring gear: Elastomer
	Guide	Steel	
	Drive pinion	Steel	
	Ball bearings	Steel	
	Toothed belt	PU with steel cord	
	Note on materials	RoHS-compliant	
		Contains paint-wetting impairment substances	

## Datasheet

## Weight [kg]

Weight [kg]		
Size	40	60
Product weight at 0 mm stroke (without rated load, motors, axial k	its, mounting kits)	
X-axis and Y-axis	16.6	37.9
Y-axis (without slide)	6.0	11.5
Slide of the Y-axis	1.5	2.5
Additional weight per 100 mm stroke		
X-axis	1.69	2.21
Y-axis	0.81	0.99
Mounting kit for X-axis		
Adjusting kit <sup>1)</sup>	0.78	0.89
Mounting kit <sup>1)</sup>	0.33	0.37

1) Weight per component

Toothed belt				
Size		40	60	
Pitch	[mm]	3	5	
Elongation	[%]	0.1	0.045	
Reference force for elongation	[N]	200	300	
Width	[mm]	20	30	
Effective diameter	[mm]	27.69	39.79	
Feed constant <sup>1)</sup>	[mm/rev]	87	125	

1) Feed constant at 45° travel

-Note -

Engineering software Handling Guide Online www.festo.com/handling-guide

#### Acceleration a as a function of the rated load m and stroke of the Y-axis

The following data applies to a horizontal mounting position. For a vertical mounting position, please get in touch with your local contact at Festo. The centre of gravity of the slide is at the height of the slide in the Z-direction and in the centre of the slide in the X-/Y-directions.

#### EXCH-40



EXCH-60



 Stioke, 1 axis = 400 mm
 Stroke, Y-axis = 500 mm
 Stroke, Y-axis = 750 mm
 Stroke, Y-axis = 1000 mm

 Stroke, Y-axis = 500 mm
 Stroke, Y-axis = 750 mm
 Stroke, Y-axis = 1000 mm
 Stroke, Y-axis = 1250 mm

----- Stroke, Y-axis = 1500 mm

### Datasheet

#### No-load torque M as a function of rotational speed n



#### Load values

The following data applies to a horizontal mounting position. For a vertical mounting position, please get in touch with your local contact at Festo.

The system is subject to the greatest load in the case of 45° travel. The following data apply in this case:

#### Formula for calculating the required torque M and the required nominal rotational speed n

#### For EXCH-40:

 $M_{45^{\circ}} = a x (9.79 x m_L + 4.89 x m_{Av} + 10.21 x J_m + 19.58) x 10^{-3} + M_R$  $n_{45^{\circ}} = 60000 / feed constant(mm) x sqrt(2)$ 

#### For EXCH-60:

 $M_{45^{\circ}} = a x (14.07 x m_L + 7.03 x m_{Av} + 7.11 x J_m + 49.24) x 10^{-3} + M_R$  $n_{45^{\circ}} = 60000 / feed constant(mm) x sqrt(2)$ 

- acceleration [m/s<sup>2</sup>] a = speed [m/s]
- v =
- $m_{Av}$  = product weight of the Y-axis [kg]  $\rightarrow$  page 10
- m<sub>I</sub> = attachment component (Z-axis) [kg] with payload
- moment of inertia of the motor [kgcm<sup>2</sup>] J<sub>m</sub> =
- $M_R$  = no-load torque [Nm]  $\rightarrow$  page 12
- $n_{45^{\circ}}$  = nominal rotational speed at 45° travel [rpm]

#### Sample calculation

Assuming: Planar surface gantry EXCH-40-1000-500-KF-W-B-L-TO-...

 $a_{max} = 25 \text{ m/s}^2$ 

v<sub>max</sub> = 2 m/s Payload = 0.5 kg

Attachment component on Z-axis: EGSL-BS-45-100-10P



Calculation:

1. What is the max. acceleration permitted by the mechanical system?

Moving mass mL on the Y-axis:Z-axis3.40 kgPayload0.50 kg

= 3.90 kg

Stroke of the Y-axis: 500 mm

#### Results:

With a moving mass  $m_L$  of 3.9 kg, the maximum permissible acceleration is 46 m/s\_2.

The required acceleration of 25  $m/s^2$  is thus permissible.

## - 🖡 - Note

The following data applies to a horizontal mounting position. For a vertical mounting position, please get in touch with your local contact at Festo. The centre of gravity of the slide is at the height of the slide in the Z-direction and in the centre of the slide in the X-/Y-directions.



 Stroke, Y-axis = 400 mm
 Stroke, Y-axis = 500 mm
 Stroke, Y-axis = 750 mm
 Stroke Y-axis = 1000 mm

### Datasheet

#### Sample calculation

2. Is the attached motor sufficient for this load?

Assuming:

 $a_{max} = 25 \text{ m/s}^2$ 

- $v_{max} = 2 m/s$
- m<sub>Av</sub> = 10.05 kg
- $m_L = 3.90 \text{ kg}$
- $J_{\rm m}$  = 3.085 kgcm<sup>2</sup>

$$\begin{split} \mathsf{M}_{45^\circ} &= a \ x \ (9.79 \ x \ \mathsf{m}_L + 4.89 \ x \ \mathsf{m}_{Ay} + 10.21 \ x \ \mathsf{J}_m + 19.58) \ x \ 10^{-3} + \mathsf{M}_R \\ \mathsf{n}_{45^\circ} &= 60000 \ / \ feed \ constant(mm) \ x \ sqrt(2) \end{split}$$

- a = acceleration  $[m/s^2]$
- v = speed [m/s]
- $m_{Ay} = product weight of the Y-axis [kg] \rightarrow page 10$
- m<sub>L</sub> = attachment component (Z-axis) [kg] with payload
- $J_m = moment of inertia of the motor [kgcm<sup>2</sup>] \rightarrow table below$
- $M_R$  = no-load torque [Nm]  $\rightarrow$  page 12
- $n_{45^{\circ}}$  = nominal rotational speed at 45° travel [rpm]

### - Note

These requirements for the dynamic response apply to 45° travel. The dynamic values may be higher for travel only in the X- or Y-direction.

#### Determining M45°

n<sub>45°</sub> = 60000 / feed constant(mm) x sqrt(2)



#### $M_{R} = 0.9 \text{ Nm}$

$$\begin{split} M_{45^\circ} &= a\,x\,(9.79\,x\,m_L + \,4.89\,x\,m_{Ay} + \,10.21\,x\,J_m + 19.58)\,x\,10^{-3} + M_R \\ M_{45^\circ} &= 25\,m/s^2\,x\,(9.79\,x\,3.9\,kg + \,4.89\,x\,10.05\,kg + \,10.21\,x\,3.085\,kgcm^2 + 19.58)\,x\,10^{-3} + 0.9\,Nm = 4.36\,Nm \\ Results: \end{split}$$



Sample motor/servo drive characteristic!

The value for the torque is above the nominal torque and below the maximum torque.

This torque is only required in the acceleration phases.

The rms value of the torque for the particular positioning cycle must remain below the nominal torque.

#### Selection of attachment components

The gantry is delivered as standard in the configuration without attachment elements (EXCH-...-T0).

The engineering software "Handling Guide Online" can be used to configure the planar surface gantry with other attachment components, such as a pneumatic or electric Z-axis.

#### EXCH-...-T0... (without attachment component)

- The following are pre-installed:
- 2 supply ports for e.g. Z-axis
- Multi-pin plug distributor for bundling signals:
  - e.g. proximity switch





Сотро	nents	Number of components
[1]	Tubing	2
[3]	Bulkhead fitting	2
[6]	Plug socket with cable	1
[7]	Multi-pin plug distributor (6-way)	1
-	Earthing cable	2

#### Mounting position of attachment components

Due to manufacturing tolerances and the backlash in the guides, the angle between the mounting plane and the attachment component, e.g. Z-axis, may not be exactly 90° in certain circumstances. Max. deviation: EXCH-40:  $\alpha = \pm 1.1^{\circ}$ EXCH-60:  $\alpha = \pm 2.1^{\circ}$ 

#### Selection of cable lengths

2 cable lengths (5 m or 10 m) can be selected using the modular product system  $\rightarrow$  page 24. This specification relates to the output of the energy chain at the X-axis (dimension L) and describes the minimum length by which the cables and tubing protrude. The selected length applies to the following components:

- Tubing
- Plug sockets with cable





Sample product image

#### Number of profile mountings

Irrespective of the mounting position, a different number of profile mountings needs to be used depending on the stroke of the X-axis. The required number is mounted on delivery.

Stroke of the X-axis	Number of profile mountings per axis						
[mm]	EXCH-40	EXCH-60					
200 499	2	-					
500 899	2						
900 1799	3						
1800 2000	4						
2000 2500	-	4					

#### Distances between the profile mountings

The profile mountings must be evenly spaced by distance l.



 $l_1=\frac{l+328}{n-1}$ 

For EXCH-40

 $l_1=\frac{l+141}{n-1}$ 

 $l_1$ = distance

= stroke L

n = number of profile mountings per axis

### Datasheet

### Dimensions

Download CAD data → <u>www.festo.com</u>



- [1] Screw for toothed belt tension
- L8 Safety distance per side

EXCH-40-...-B - Motor mounting position underneath



EXCH-40-... – Motor interface



D1

Υh





Download CAD data → <u>www.festo.com</u>



Туре	B3	B4	B5	B6	B10	B11	B12	B13	B14	B15
								±0.05	±0.1	±0.03
EXCH	65	65	69	179.9	41	35	30	27	106	85
Туре	D1	D2	D3	D4	D5	D6	H1	H2	H4	H7
	ø	ø		ø	ø					
	H7	h6		H7	H7					
EXCH	38	12	M5	4	6	M6	Approx. 293	100.8	65	20
Туре	H8	L3	L4	L5	L6	L7	L8	L9	L10	L11
										±0.03
EXCH	100.3	101	70	70	37.5	30.5	4	167.2	70	46
Туре	L12	L13	L14	L15	L16	T1	T2	T3	T4	=G1
		±0.1	±0.1		±0.1					
EXCH	41	44	32	18.5	12	12	6	1.9	7	6
Stroke-dependent dime	nsions		-		-					
Stroke of the X-axis	L1		Ľ	2	Stroke of the Y-axis	e	B1		B	2
500	882		64	3	400		760		63	0
750	1132	2	89	3	500		860		73	0
1000	1382	2	11-	43	750		1100		98	0
1500	1882	2	16	43	1000		1360		12	30
200 2000	382+str	roke	→ Pa	ge 17	200 1000	)	360+stro	oke	230+9	stroke

## - 🕴 - Note

Depending on the stroke of the X-axis, a different number of profile mountings is required. The distance between the profile mountings must always be the same ( $\rightarrow$  page 17).

The tension of the toothed belt must be set before commissioning. The tools required to do this (e.g. frequency meter) are not included in the scope of delivery.

## Datasheet

### Dimensions

Download CAD data → <u>www.festo.com</u>



[1] Screw for toothed belt tension

L8 Safety distance per side

Туре	В3	B4	B5			B6		H1
EXCH	96.6	91	83.5 253.3		253.3		Approx. 310	
Туре	H2	H4	L3		L4			L5
EXCH	120.1	80.6	13:	1.2		100		100
Туре	L6	L7	L8 L9		L17	L17 =\$1		
EXCH	42.5	30.5	6	257	7	8.9		13
Stroke-dependent dimen	isions							
Stroke of the X-axis	L1	L2	Stroke of the Y-axis	2		B1		B2
750	1393	1079.9	500			1007		819
1000	1643	1329.9	750			1257		1069
1500	2143	1829.9	1000			1507		1319
2000	2643	2329.9	1250			1757		1569
500 2500	643 + stroke	→ Page 17	1500		2007			1819
	•		500 1500	)	50	7 + stroke	3	19 + stroke

# - 🎍 - Note

Depending on the stroke of the X-axis, a different number of profile mountings is required. The distance between the profile mountings must always be the same ( $\rightarrow$  page 17).

The tension of the toothed belt must be set before commissioning. The tools required to do this (e.g. frequency meter) are not included in the scope of delivery.

## Datasheet

### Dimensions

![](_page_21_Figure_3.jpeg)

![](_page_21_Figure_4.jpeg)

EXCH-60-... – Motor interface

Download CAD data  $\rightarrow$  <u>www.festo.com</u>

![](_page_21_Figure_7.jpeg)

![](_page_21_Figure_8.jpeg)

EXCH-60-... – Slide

![](_page_21_Figure_10.jpeg)

Туре	B10	B11	B12	B13	B1	4	B15	B16	B17	B18	D1 Ø
	±0.1			±0.0	5 ±0	.1	±0.03	±0.1	±0.1	±0.1	H7
EXCH	54	51	39.5	27	13	32	85	106	23.5	10.5	62
Туре	D2 Ø H7	D3	D5 Ø H7	D6	D7	H4	H8	L10	L12 ±0.1	L13 ±0.1	±0.1
EXCH	23	M6	6	M8	M6	80.6	119.6	100	64	75	59
Туре	L15	L16 ±0.1	L18 ±0.1	L19 ±0.1	L20 ±0.1	L21	L22	T1	T3	T4	T6
EXCH	22	12	44	32	11	13	5	14	3.1	7	6.9

Download CAD data → <u>www.festo.com</u>

## Datasheet

## Dimensions

Adjusting kit EADC

![](_page_22_Figure_4.jpeg)

[1] Adjustable

[2] Width of elongated hole

Height differences of up to 5 mm can be compensated using the adjusting kit. Can be ordered via: Modular product system → page 24 or Accessories → page 26

For size	B1	B2	B3	B4	B5	D1	H1	H2	н	3	H4	L1	T1
				±0.2					min.	max.	max.		
40	110	78	26	36.5	5	M8	29	129.8	34.8	39.8	14	37	10
60	130	98	36.5	46.5	5	M8	29	149.1	34.8	39.8	14	37	10

Mounting kit

![](_page_22_Figure_10.jpeg)

[2] Width of elongated hole
No compensation is possible using the mounting kit.
Can be ordered via:
Modular product system → page 24
or Accessories → page 26

For size	B1	B2	B3	B4 ±0.2	B5	D1	H1 +0.2	H2	H4 max.	L1	T1
40	110	78	26	36.5	5	M8	30	131.3	14	37	10
60	130	98	36.5	46.5	5	M8	30	150.1	14	37	10

2023/04 - Subject to change

# Ordering data – Modular product system

Ordering table					
Size	40	60	Conditions	Code	Enter cod
Module no.	1923050	1939785			
Product type	EXCH series H			EXCH	EXCH
Size	40	60			
Stroke of the X-axis [n	nm] 200 2000	500 2500			
Stroke of the Y-axis [n	nm] 200 1000	500 1500			
Guide	Recirculating ball bearing	guide		-KF	-KF
Motor type	Without motor			-W	-W
Motor attachment position	Underneath			-В	
	On top			-T	
Energy chain connection side	To the left			-L	-L
Attachment components	None			-T0	-T0
Cable length	None			-	
	With cable length 5 m			-5K	
	With cable length 10 m			-10K	
Mounting kit	With adjusting kit				
	With mounting kit			-P	
Document language	German			-DE	
	English			-EN	
	Spanish			-ES	
	French			-FR	
	Italian			-IT	
	Russian			-RU	
	Chinese			-ZH	

# - 🌡 - Note

In combination with characteristic W (without motor), the planar surface gantry EXCH is delivered without coupling housing and without coupling.

## Accessories

## - 🕴 - Note

Depending on the combination of motor and drive, it may not be possible to reach the maximum feed force of the drive.

Permissible axis/motor combinations with axial kit

Third-party motors that have an overly high driving torque may damage the linear gantry. When selecting the motors, please observe the limits specified in the technical data.

Datasheets  $\rightarrow$  Internet: eamm-a

Motor/gear unit <sup>1)</sup>	Axial kit	
		• Kits for third-party motors → Internet: eamm-a
Туре	Part no.	Туре
EXCH-40		
With servo motor		
EMMT-AS-80	8164654	EAMM-A-X48-80P
EXCH-60		
With servo motor		
EMMT-AS-100	8164656	EAMM-A-X62-100A
EMMT-AS-150	8164657	EAMM-A-X62-150A

1) The input torque must not exceed the max. permissible transferable torque of the axial kit.

Ordering data			
Coupling	For axial kit	Part no.	Туре
<u>A</u>	EAMM-A-X48-80P	551005	EAMC-42-50-12-19
(A) )	EAMM-A-X62-100A	558003	EAMD-56-46-19-23X27
	EAMM-A-X62-150A	558005	EAMD-56-46-24-23X27

## Accessories

### Sensor mounting EAPR

For proximity switch SIES-V3B and SIES-Q8B (for sensing the slide position on the X-axis)

#### Material:

Switch lug: Steel Sensor bracket: Wrought aluminium alloy RoHS-compliant

![](_page_25_Picture_6.jpeg)

![](_page_25_Figure_7.jpeg)

Dimensions and ord	ering data									
For size	B1	B2	B3	H1	H2	H3	H4	H5	H6	H7
						±0.1			-0.1	-0.2
40	44	36.3	4	21.8	21	15	2.5	6.1	3.1	3
60	54	46.3	4	21	21	15	2.5	5.3	2.3	3
For size	L1	L2		L3	L4	Weight [g]	Part no.	Туре		
40	36	20		35	25	120	253635	3 EAPR-E12	2-40	
60	36	20		35	25	150	247880	5 EAPR-E12	2-60	

Ordering data				
	For size	Description	Part no.	Туре
Adjusting kit EADC				
e B. A	40	For mounting and aligning the planar surface gantry.	8029165	EADC-E12-40
	60	The kit is height-adjustable	8029166	EADC-E12-60
Mounting kit EAHM				
	40	For mounting the planar surface gantry.	3489340	EAHM-E12-K-40
	60	The kit is not height-adjustable	3489318	EAHM-E12-K-60

## Accessories

Designation	Description			Cable length [m]	Part no.	Туре
Proximity switches for sensing the position of the slide on the X-axis - To be used in combination with sensor mounting EAPR-E12						
Co P	For EXCH-40, EXCH	I-60	PNP, N/O contact	-	150491	SIES-V3B-PS-S-L
	For EXCH-40, EXCH-60		PNP, N/C contact	-	174552	SIES-Q8B-PO-K-L
C 3 8 1						
Proximity switch (inductive) for sensing the position of the slide on the Y-axis						
	Cable with plug					
	For EXCH-40, EXCH-60		PNP, N/C contact	0.3	551392	SIES-8M-PO-24V-K-0.3-M8D
ET W	For DC voltage		PNP, N/O contact	0.3	551387	SIES-8M-PS-24V-K-0.3-M8D
a a a a a a a a a a a a a a a a a a a						
Ordering data						
	For size Description				Part no.	Туре
Adjusting tool EADT						
00 <sup>8</sup>	40,60	For aligning and checking the flatness of the planar surface gantry			3197697	EADT-W-E12