

**Axial kit
EAMM-A-P...-...A/P**

1. Intended usage

Axial kit EAMM-A-P...-...A/P:
Connecting an axis to a motor in axial configuration to the driven shaft
(→ Section 9).

2. Safety instructions and notes on mounting

Warning

- Unexpected movement of components.
Injury due to impacts or pinching.
- Switch off power supply before mounting work.
 - Observe safety instructions (→ applicable documents).

Note

- Incorrect mounting can cause malfunction and material damage.
- Observe tightening torques (→ Section 7).
 - Leave lubricant film on the screws.
 - Clean shafts. The coupling will only grip without slipping on a drive shaft which is dry and free of grease.
 - Observe proper alignment of the coupling hubs **1** (→ Section 6).
 - Support the combination (→ Section 8):
 - if there are far-protruding or heavy motor attachments
 - if there are severe vibrations or oscillation/shock loads
- Each time after disconnecting or turning the motor:
- Perform a homing of the axis.

Info

Applicable documents

- Motor operating instructions
- Axis operating instructions

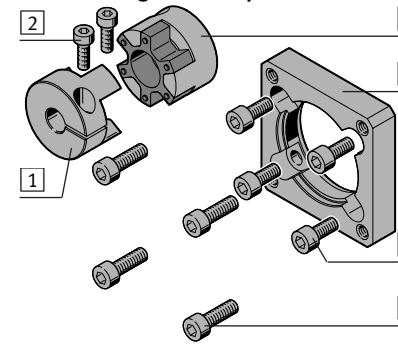
The kit contains all the mounting components that may be required.
• Select required mounting components (→ Section 7).

There are 3 mounting variants (A/B/C).

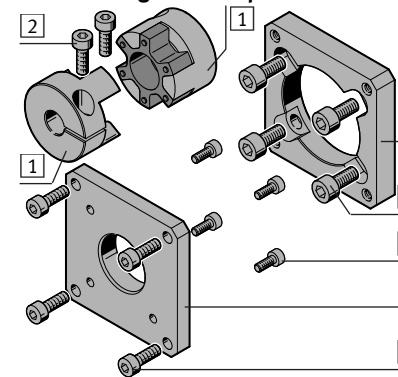
EAMM-A-		Mounting variant
P3-28D-	28A/40P	A
P4-28B-	28A	B
P4-28B-	40A/40P/42A	A
P5-28B-	28A	B
P5-28B-	40A/40P/42A	A
P6-38A-	40A/40P	C
P6-38A-	42A	B
P6-38A-	55A/57A/60P/67A	A
P8-38A-	40A/40P	C
P8-38A-	42A	B
P8-38A-	55A/57A/60P/67A/70A/87A	A
P10-38A-	55A/57A/60P/67A/70A/87A	A

3. Parts lists

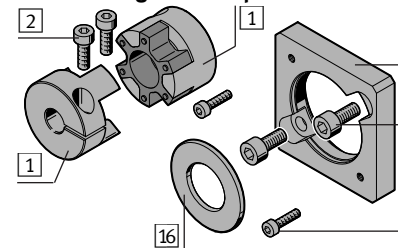
3a. Mounting variant A parts list

- 
- 1** Coupling hub (2x)
 - 2** Clamping screw (2x)
 - 9** Screw¹⁾ (4x)
 - 8** Motor flange (1x)
 - 13** Screw (4x)

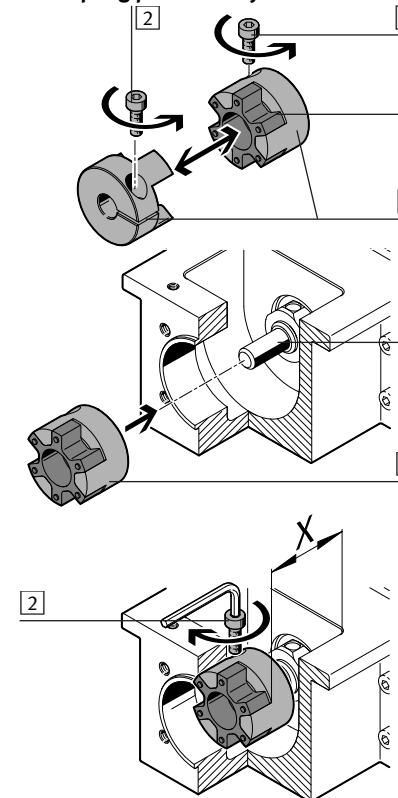
3b. Mounting variant B parts list

- 
- 1** Coupling hub (2x)
 - 2** Clamping screw (2x)
 - 8** Motor flange (1x)
 - 9** Screw (4x)
 - 11** Screw (4x)
 - 12** Motor flange (1x)
 - 13** Screw (4x)

3c. Mounting variant C parts list

- 
- 1** Coupling hub (2x)
 - 2** Clamping screw (2x)
 - 8** Motor flange (1x)
 - 9** Screw (2x)
 - 11** Screw (2x)
 - 16** Centring ring (1x)

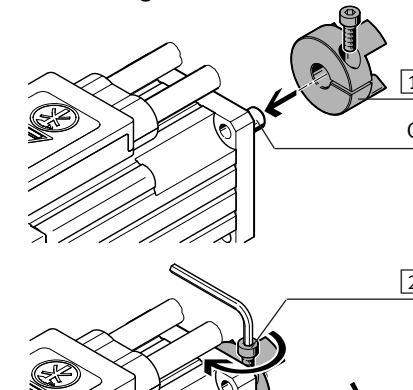
4. Coupling preassembly

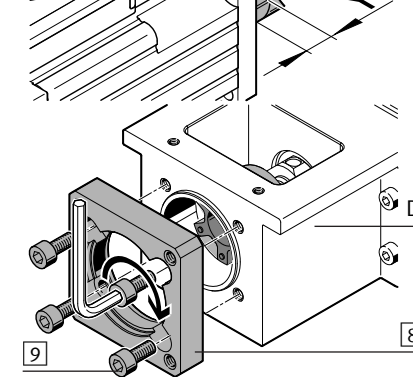
- 
- Pull apart coupling.
 - Place ring gear (B) on one of the two coupling hubs **1**.
 - Loosen clamping screws **2**.
- Slide coupling hub **1** with the matching drill hole onto the drive shaft (A).
- For accurate alignment:
- Observe distance (X) (→ Section 6).
 - Tighten axis-side clamping screw **2**.

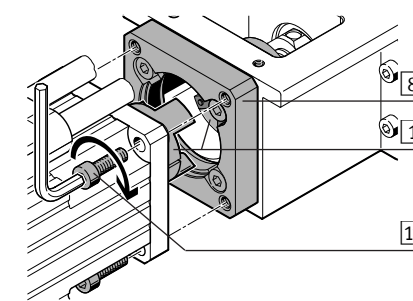
¹⁾ For EAMM-A-P3-28D-..., screw **9** is only required (2x).

5. Mounting

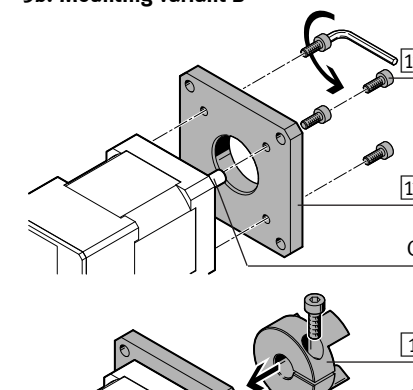
5a. Mounting variant A

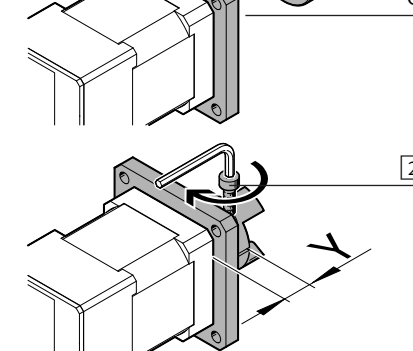
- 
- Slide coupling hub **1** with the matching drill hole onto the drive shaft (C).
- For accurate alignment:
- Observe distance (Y) (→ Section 6).
 - Tighten clamping screw **2**.

- 
- Fasten motor flange **8** to the coupling housing (D) using the screws **9**¹⁾.

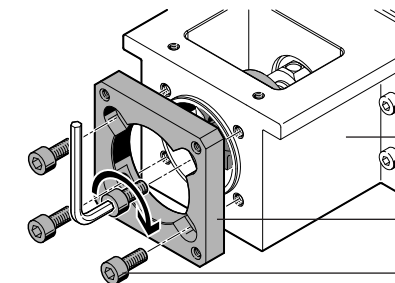
- 
- Connect motor and axis by pushing.
 - Check: correct relative position of coupling hubs **1**.
 - Fasten motor to motor flange 8 using the screws **11**²⁾.

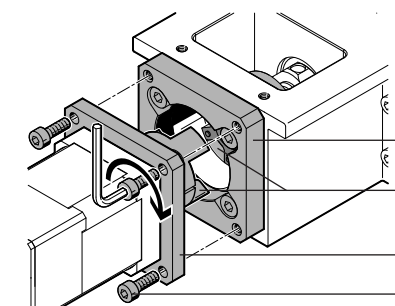
5b. Mounting variant B

- 
- Fasten motor flange **12** to the motor using the screws **11**.
- Slide coupling hub **1** with the matching drill hole onto the drive shaft (C).

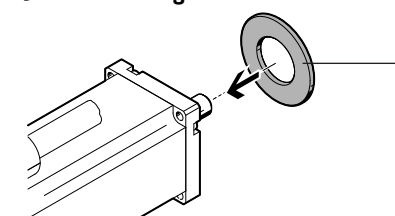
- 
- For accurate alignment:
- Observe distance (Y) (→ Section 6).
 - Tighten motor-side clamping screw **2**.

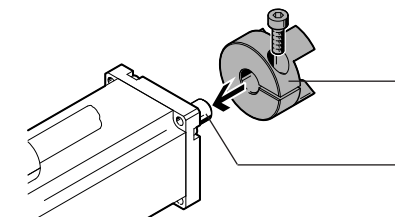
²⁾ For EAMM-A-P4/P5-28B-42A, the motor flange **8** is fastened to the motor using the screws **11**.

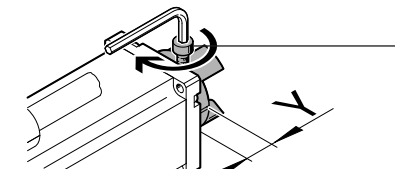
- 
- Fasten motor flange **8** to the axis's coupling housing (D) using the screws **9**.

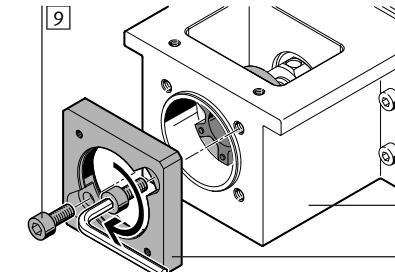
- 
- Connect motor and axis by pushing.
 - Check: correct relative position of coupling hubs **1**.
 - Fasten the motor to the motor flange **12** and the screws **13**.

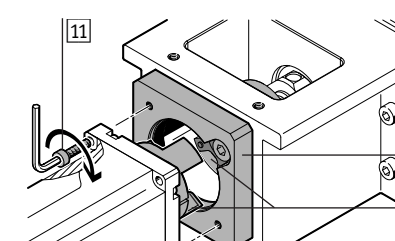
5c. For mounting variant C

- 
- Place centring ring **16** on the motor.

- 
- Slide coupling hub **1** with the matching drill hole onto the drive shaft (C).

- 
- For accurate alignment:
- Observe distance (Y) (→ Section 6).
 - Tighten motor-side clamping screw **2**.

- 
- Fasten motor flange **8** to the axis's coupling housing (D) using the screws **9**.

- 
- Connect motor and axis by pushing.
 - Check: correct relative position of coupling hubs **1**.
 - Fasten the motor to the motor flange **8** using the screws **11**.

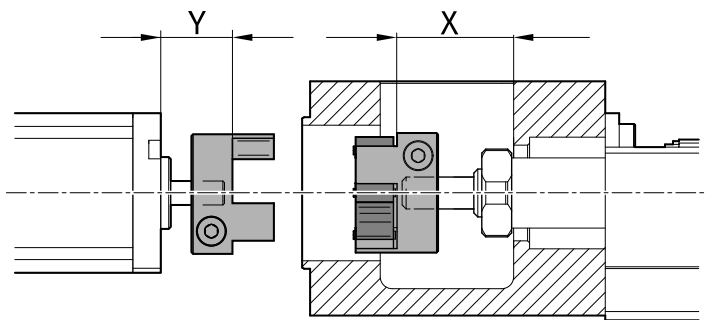
Continuation on the reverse side!

6. Alignment of the coupling hubs ¹

→ Note

Axial forces on the motor and axis shafts can result in failure of the encoder/brake or increased bearings wear.

- Observe distances X and Y.

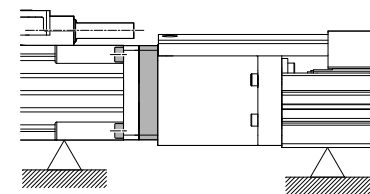


EAMM-A-	Axis	X ^{±0.3} [mm]	Y ^{±0.3} [mm]
P3-28D-28A	EGSK-15	12.5	20.2
P3-28D-40P			19.7
P4-28B-28A	EGSK-/EGSP-20	14.0	20.0
P4-28B-40A		15.0	16.5
P4-28B-40P		14.5	20.0
P4-28B-42A		15.0	24.7
P5-28B-28A	EGSK-/EGSP-26	17.0	20.0
P5-28B-40A		17.5	16.8
P5-28B-40P		17.0	20.5
P5-28B-42A		17.5	25.0
P6-38A-40A	EGSK-33	13.3	20.3
P6-38A-40P			22.0
P6-38A-42A			26.3
P6-38A-55A			22.3
P6-38A-57A			
P6-38A-60P		13.8	31.8
P6-38A-67A		13.3	27.3
P8-38A-40A	EGSK-46	26.5	18.6
	EGSP-33	17.3	16.7
P8-38A-40P	EGSK-46	26.5	20.3
	EGSP-33	17.3	18.0
P8-38A-42A	EGSP-33	17.3	22.3
	EGSK-46	26.5	24.6
P8-38A-55A	EGSK-46	26.5	20.6
	EGSP-33	17.3	18.7
P8-38A-57A	EGSK-46	26.5	20.6
	EGSP-33	17.3	18.7
P8-38A-60P	EGSK-46	26.5	30.6
	EGSP-33	17.3	28.3
P8-38A-67A	EGSK-46	26.5	25.6
	EGSP-33	17.3	23.3
P8-38A-70A	EGSK-46	26.5	23.3
	EGSP-33	17.3	21.0
P8-38A-87A	EGSK-46	26.5	27.6
	EGSP-33	17.3	25.3
P10-38A-55A	EGSP-46	28.0	19.1
P10-38A-57A			
P10-38A-60P			29.1
P10-38A-67A			24.1
P10-38A-70A			21.7
P10-38A-87A			26.0

7. Screw sizes and tightening torques M_A³⁾

EAMM-A-	[2]	[Nm]	[9]	[Nm]	[11]	[Nm]	[13]	[Nm]
P3-28D-28A	M2x6	0.5	M3x12	1.2	M2.5x8	0.8	-	-
P3-28D-40P			M3x10		M3x10	1.2		
P4-28B-28A	M2x6	0.5	M3x10	1.2	M2.5x6	0.8	M3x10	1.2
P4-28B-40A			M3x14		M3x14	1.2		
P4-28B-40P			M3x12		M3x12			
P4-28B-42A			M3x20		M3x10			
P5-28B-28A	M2x6	0.5	M3x10	1.2	M2.5x6	0.8	M3x10	1.2
P5-28B-40P			M3x12		M3x12	1.2		
P5-28B-42A			M3x20		M3x10			
P6-38A-40A	M4x12	4	M5x12	6	M3x12	1.2	-	-
P6-38A-40P			M5x14					
P6-38A-42A			M5x12		M3x8		M4x12	3
P6-38A-55A					M5x16	6		
P6-38A-57A					M4x12	3		
P6-38A-60P			M5x18		M4x16			
P6-38A-67A			M5x16		M6x16	8		
P8-38A-40A	M4x12	4	M5x12	6	M3x12	1.2	-	-
P8-38A-40P			M5x14					
P8-38A-42A			M5x12		M3x8		M4x12	3
P8-38A-55A					M5x16	6		
P8-38A-57A					M4x12	3		
P8-38A-60P			M5x18		M4x16			
P8-38A-67A			M5x16		M6x16	8		
P8-38A-70A			M5x14		M5x20	6		
P8-38A-87A			M5x18		M6x20	10		
P10-38A-55A	M4x12	4	M5x12	6	M5x16	6	-	-
P10-38A-57A					M4x12	3		
P10-38A-60P			M5x18		M4x16			
P10-38A-67A			M5x16		M6x16	8		
P10-38A-70A			M5x14		M5x20	6		
P10-38A-87A			M5x18		M6x20	10		

8. Supporting the axis-motor combination



To avoid damage:

- Support the combination so it is free from tension.

9. Permissible axes and motors

→ Note

Malfunction and material damage due to overloading.

The output variables of the motor must not exceed the permissible values of the components used.

Permissible values → www.festo.com/catalogue

- Limit the motor's output variables accordingly.

- Derive the axis and motor from the interface codes.

Example: EAMM-A-P8-38A-55A

- Axis interface **P8-38A**
- Motor interface **55A**

Axis interface	Axis ⁴⁾
P3-28D	EGSK-15
P4-28B	EGSK-20, EGSP-20
P5-28B	EGSK-26, EGSP-26
P6-38A	EGSK-33
P8-38A	EGSK-46, EGSP-33
P10-38A	EGSP-46

Motor interface	Motor ⁵⁾
28A	EMMS-ST-28
40A	EMMS-AS-40
40P	EMME-AS-40
42A	EMMS-ST-42
55A	EMMS-AS-55
57A	EMMS-ST-57
60P	EMME-AS-60
67A	EMCA-EC-67
70A	EMMS-AS-70
87A	EMMS-ST-87

³⁾ Tolerance for tightening torques M_A with no indication of tolerance ± 20 %

⁴⁾ Electric slide EGSK/EGSP

⁵⁾ Servo motor EMME-AS/EMMS-AS, stepper motor EMMS-ST, integrated drive EMCA-EC