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Axial kit EAMM-A-S...-...G/H-G2

Intended use . 1

Axial kit EAMM-A-S...-...G/H-G2:
Connecting an axis to a gear unit in axial configuration to the driven shaft
(→ section 9).

2. Safety instructions and notes on mounting

⚠ Warning

Unexpected movement of components.

Injury due to electric shock, impacts or pinching.

- Switch off power supply before mounting work.

- Observe the 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 only grips dry and grease-free drive shafts.
 - Maintain alignment of the coupling hubs **1** (→ section 6).
 - Support the combination (→ section 8):
 - If there are far-protruding and heavy motor attachments
 - In the event of severe vibrations and oscillation/shock loads.
- Each time after disconnecting or turning the motor:
- Start homing of the axis.

i Information

Applicable documents

- Motor operating instructions
- Gear unit operating instructions
- Shaft operating instructions

The kit contains the maximum mounting attachments that may be required.

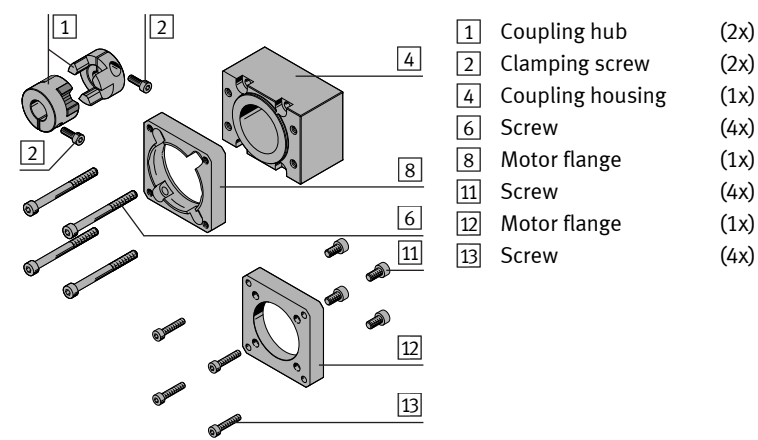
- Select required mounting components (→ section 7).

There are four mounting variants (A/B/C/D).

EAMM-A...-G2	Mounting variant
S38-40G	A
S48-40G	B
S48-60G/-60H	A
S62-60G/-60H	C
S62-80G	D

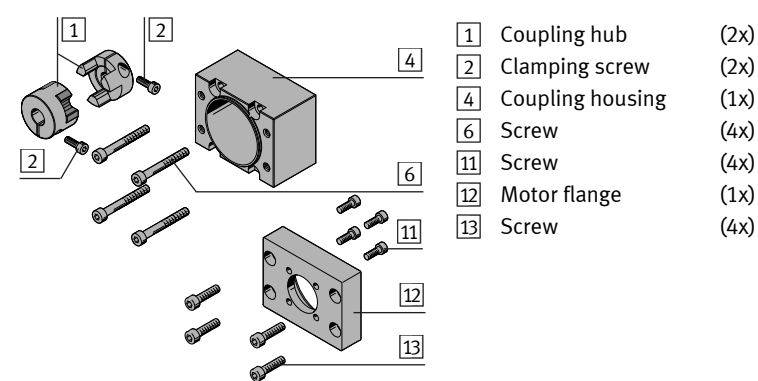
3. Parts lists

3a. Parts list for mounting variant A



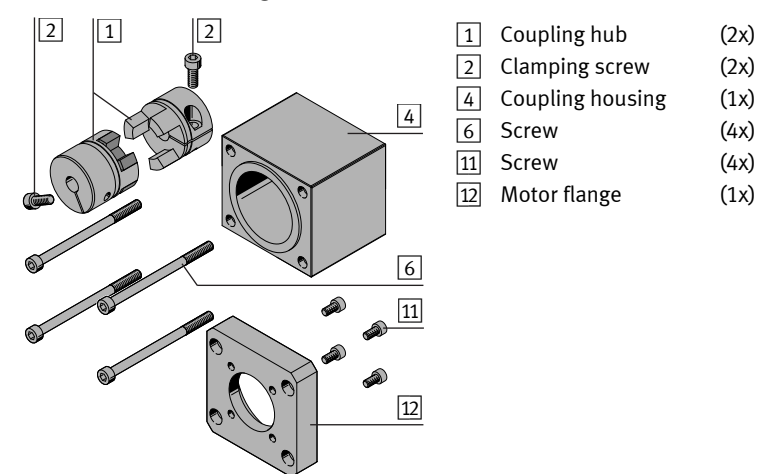
- 1** Coupling hub (2x)
- 2** Clamping screw (2x)
- 4** Coupling housing (1x)
- 6** Screw (4x)
- 8** Motor flange (1x)
- 11** Screw (4x)
- 12** Motor flange (1x)
- 13** Screw (4x)

3b. Parts list for mounting variant B



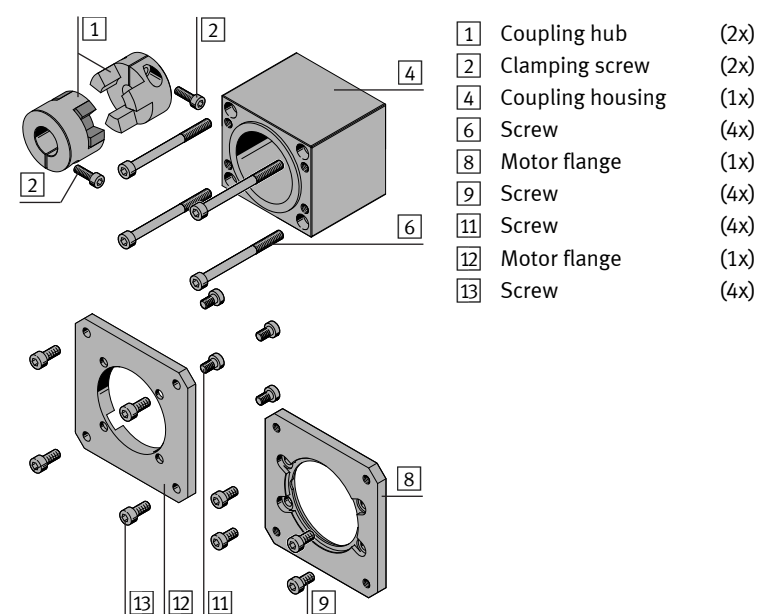
- 1** Coupling hub (2x)
- 2** Clamping screw (2x)
- 4** Coupling housing (1x)
- 6** Screw (4x)
- 11** Screw (4x)
- 12** Motor flange (1x)
- 13** Screw (4x)

3c. Parts list for mounting variant C



- 1** Coupling hub (2x)
- 2** Clamping screw (2x)
- 4** Coupling housing (1x)
- 6** Screw (4x)
- 11** Screw (4x)
- 12** Motor flange (1x)

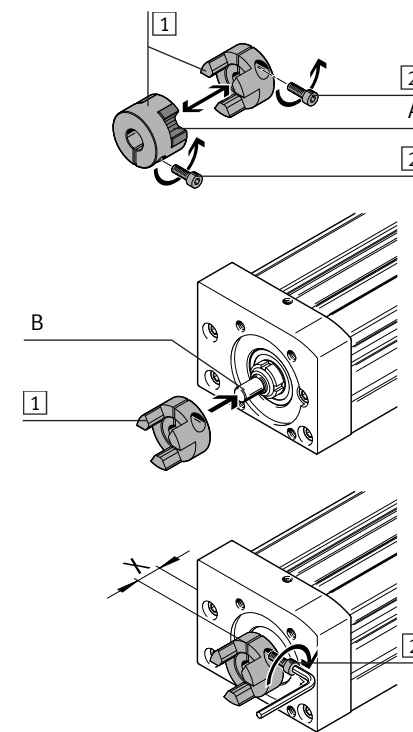
3d. Parts list for mounting variant D



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

4. Preassembly of the coupling

4a. On axis side

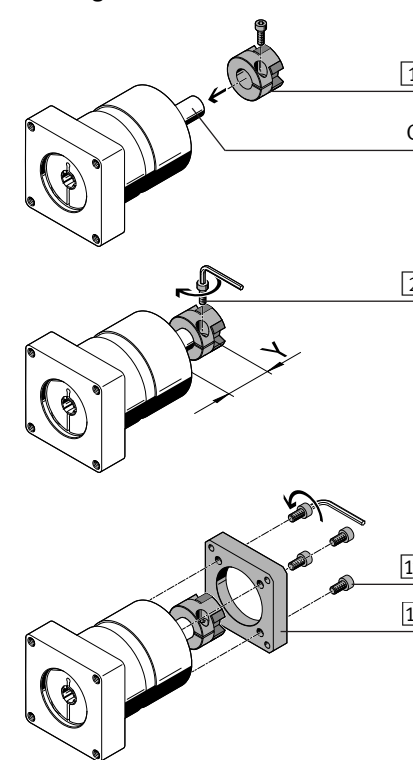


- Pull apart the coupling.
- Place the ring gear (A) onto one of the two coupling hubs **1**.
- Unscrew clamping screws **2**.
- Push the coupling hub **1** with the matching drill hole onto the drive shaft (B).

For accurate alignment:

- Maintain distance (X) (→ section 6).
- Tighten clamping screw **2**.

4b. On gear unit side for EAMM-A-S48-60G/H-G2, EAMM-A-S62-80G-G2



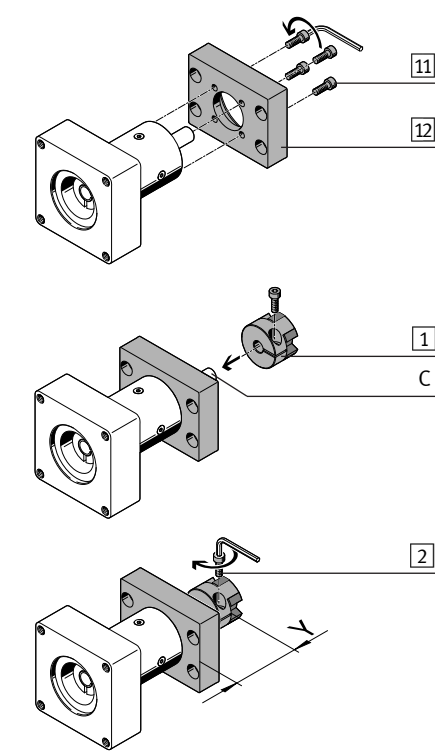
- Push the coupling hub **1** with the matching drill hole onto the drive shaft (C).

For accurate alignment:

- Maintain distance (Y) (→ section 6).
- Tighten clamping screw **2**.

- Fasten the motor flange **12** to the gear unit with the screws **11**.

4c. On gear unit side for EAMM-A-S38-40G-G2, EAMM-A-S48-40G-G2



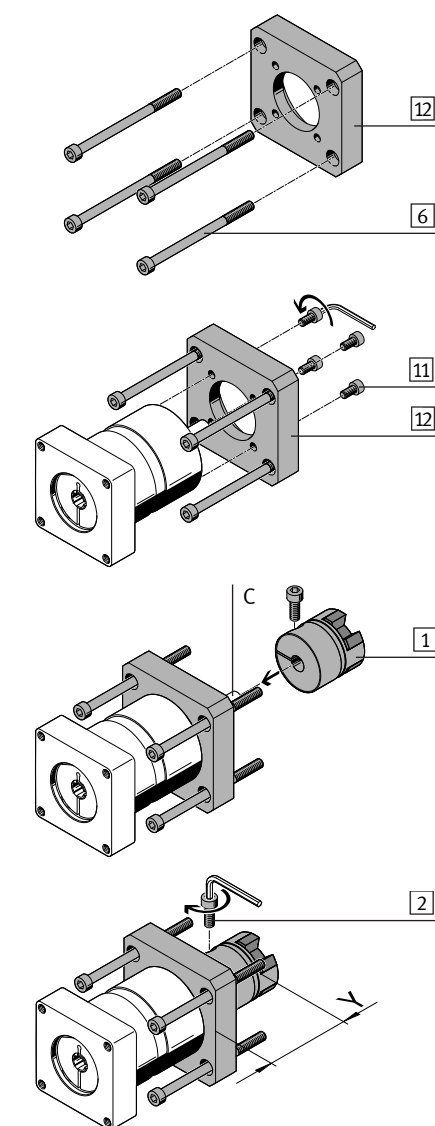
- Fasten the motor flange **12** to the gear unit with the screws **11**.

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

For accurate alignment:

- Maintain distance (Y) (→ section 6).
- Tighten clamping screw **2**.

4d. On gear unit side for EAMM-S62-60G/H-G2



- Insert screws **6** into the motor flange **12**.

- Fasten the motor flange **12** to the gear unit with the screws **11**.

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

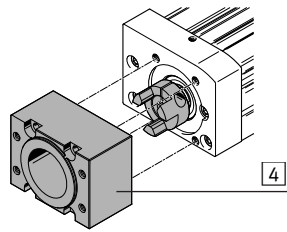
For accurate alignment:

- Maintain distance (Y) (→ section 6).
- Tighten clamping screw **2**.

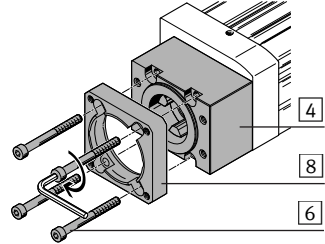
Continuation on the reverse side!

5. Mounting

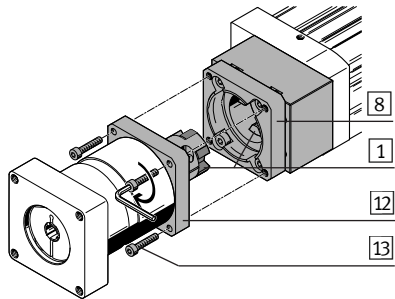
5a. Variant A



- Place the coupling housing [4] on the shaft.

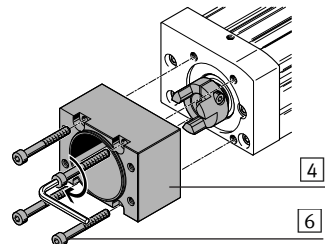


- Fasten the motor flange [8] and the coupling housing [4] to the axis with the screws [6].

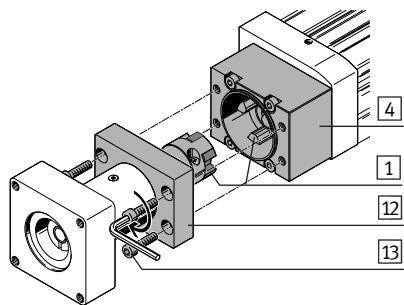


- Push the gear unit and the axis together.
Check: Correct position of the coupling hubs [1] in relation to each other.
- Fasten the gear unit over the motor flange [12] to the motor flange [8] with the screws [13].

5b. Variant B

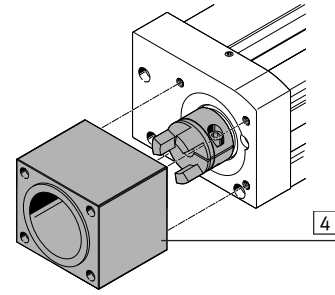


- Fasten the coupling housing [4] to the axis with the screws [6].

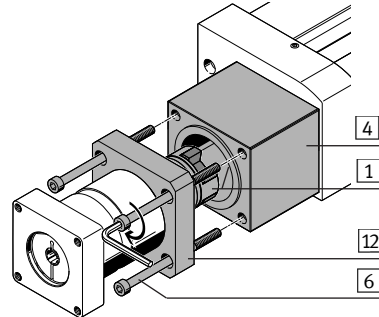


- Push the gear unit and the axis together.
Check: Correct position of the coupling hubs [1] in relation to each other.
- Fasten the gear unit over the motor flange [12] to the coupling housing [4] with the screws [13].

5c. Variant C

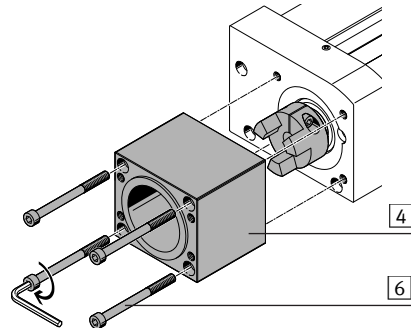


- Place the coupling housing [4] on the shaft.

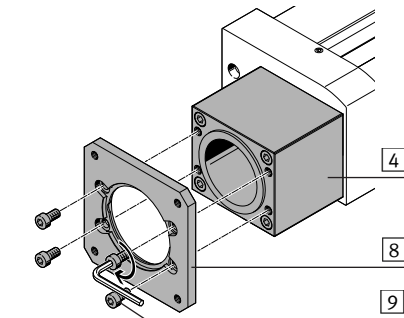


- Push the gear unit and the axis together.
Check: Correct position of the coupling hubs [1] in relation to each other.
- Fasten the gear unit over the motor flange [12] and the coupling housing [4] to the axis with the screws [6].

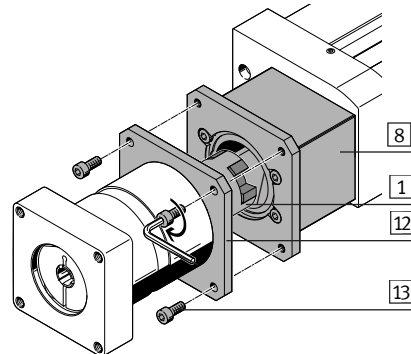
5d. Variant D



- Fasten the coupling housing [4] to the axis with the screws [6].



- Fasten the motor flange [8] and the coupling housing [4] to the axis with the screws [9].



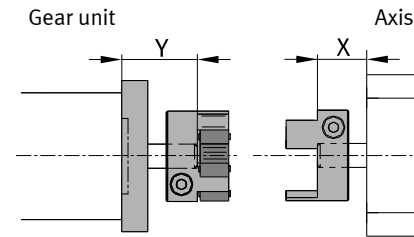
- Push the gear unit and the axis together.
Check: Correct position of the coupling hubs [1] in relation to each other.
- Fasten the gear unit over the motor flange [8] to the motor flange [8] with the screws [13].

6. Alignment of the coupling hubs [1]

Note

Axial forces on the shafts of the gear unit and axis can result in increased wear.

- Maintain the distances X and Y.

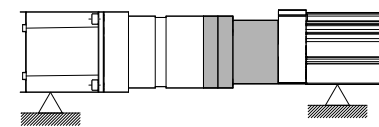


EAMM-A-	Y ± 0.3 [mm]	X ± 0.3 [mm]
S38-40G-G2	26.3	16.3
S48-40G-G2	25.8	17.8
S48-60G-G2	35	16.1
S48-60H-G2		
S62-60G-G2	35.5	33
S62-60H-G2		
S62-80G-G2	40	25

7. Screw sizes and tightening torques M_A 1)

EAMM-A-	[2]	[Nm]	[6]	[Nm]	[9]	[Nm]	[11]	[Nm]	[13]	[Nm]
S38-40G-G2	M4x12	4	M5x50	6	—	—	M4x10	3	M4x12	3
S48-40G-G2			M5x40				M4x12		M5x20	6
S48-60G-G2			M5x55				M5x10	6	M4x20	3
S48-60H-G2										
S62-60G-G2	M6x16	10.5	M6x90	10			M5x10	6	—	—
S62-60H-G2										
S62-80G-G2	M5x18	8	M6x70		M6x16	8	M6x12	8	M6x14	10

8. Support of the motor/gear unit/axis combination



To avoid damage:

- Also support the combination so it is free from tension.

9. Permissible axes and gear units

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 motor output variables accordingly.

- Derive the axis and gear unit from the interface codes.

Example: EAMM-A-S38-40G

- Axis interface **S38**
- Gear unit interface **40G**

Axis interface	Axis ²⁾
S38	EGC-70-...BS, EGC-HD-125-...BS, ELGA-BS-KF-70
S48	EGC-80-...BS, EGC-HD-160-...BS, ELGA-BS-KF-80
S62	EGC-120-...BS, EGC-HD-220-...BS, ELGA-BS-KF-120

Gear unit interface	Gear unit
40G	EMGA-40, EMGC-40
60G	EMGA-60-...SAS/-SST
60H	EMGA-60-...EAS, EMGC-60
80G	EMGA-80

¹⁾ Tolerance for tightening torques M_A without indication of tolerance $\pm 20\%$

²⁾ Spindle axis EGC-BS/ELGA-BS-KF