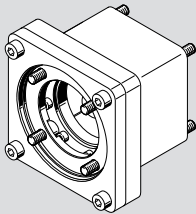


EAMM-A-D...-...G/H-12

Axial kit



FESTO

Festo SE & Co. KG
Ruiter Straße 82
73734 Esslingen
Deutschland
+49 711 347-0
www.festo.com

Assembly instructions

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Translation of the original instructions

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1 Applicable documents

All available documents for the product → www.festo.com/sp.

Observe further applicable documents:

- Operating instructions, gear unit
- Operating instructions, axis

2 Safety

2.1 Safety instructions

- Only mount the product on components that are in a condition to be safely operated.
- Clean the shafts. The coupling hubs [1] grip without slipping only on dry and grease-free drive shafts.
- Maintain the proper alignment of the coupling hubs [1].
- Support the combination in the following cases:
 - If there are protruding or heavy motor attachments.
 - In the event of severe vibrations, vibration loads or shock loads.
- If the motor is loosened or turned, homing must be carried out on the axis.
- Select required mounting components. The kit contains all the mounting components that may be required.
- Select the correct screw length for the screws [7] depending on the axis. The screws [7] are labelled correspondingly.
- Observe the tightening torques. Unless otherwise specified, the tolerance is ± 20%.
If the tightening torques are exceeded, the cover screws of the axis will loosen during disassembly.

2.2 Intended use

2.2.1 Use

The axial kit connects an axis with a gear unit configured axially to the driven shaft.

2.2.2 Permissible axes and gear units

NOTICE

Overloading can cause malfunction and material damage.
The motor's output variables must not exceed the permissible values of the components used.
Permissible values → www.festo.com/catalogue.

- Limit the motor's output variables accordingly.

- Take the axis and the gear unit from the interface codes.
Example: EAMM-A-D100-120G
D100: axis interface
120G: gear unit interface

Axis interface	Axis ¹⁾
D100	ESBF-100

1) Electric cylinder ESBF
Tab. 1: Permissible axes

Gear unit interface	Gear unit
120G	EMGA-120, third-party gear unit

Tab. 2: Permissible gear units

i

It is the responsibility of users to qualify third-party gear units with the matching mechanical interface for the combination.
To find out which third-party gear units are suitable, contact your regional Festo contact or call → www.festo.com/sp.

2.3 Training of qualified personnel

Work on the product may only be carried out by qualified personnel who can evaluate the work and detect dangers. Personnel must have the relevant mechanical training.

3 Additional information

- Contact the regional Festo contact if you have technical problems → www.festo.com.
- Accessories → www.festo.com/catalogue.

4 Scope of delivery

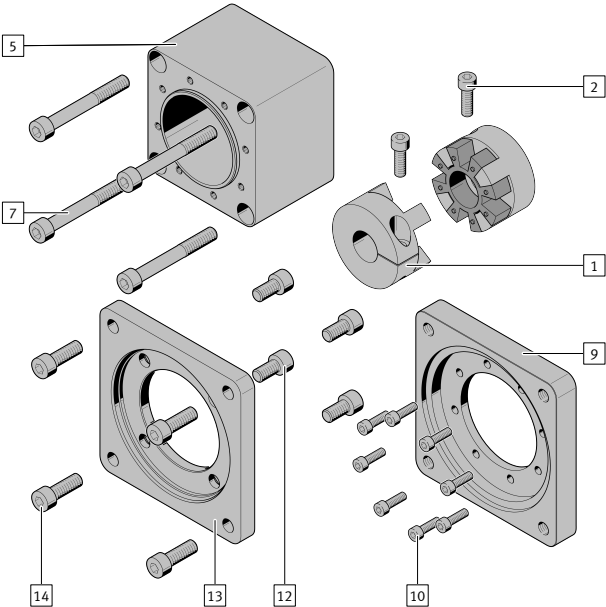


Fig. 1: Scope of delivery

- | | | | |
|---|-----------------------|----|-------------------|
| 1 | Coupling hub (2x) | 10 | Screw (8x) |
| 2 | Clamping screw (2x) | 12 | Screw (4x) |
| 5 | Coupling housing (1x) | 13 | Motor flange (1x) |
| 7 | Screw (4x) | 14 | Screw (4x) |
| 9 | Motor flange (1x) | | |

5 Assembly

5.1 Assembly

5.1.1 Preassembly of coupling

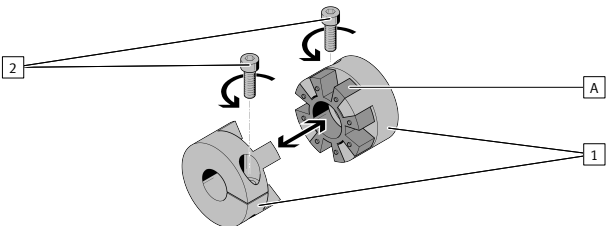


Fig. 2: Disconnecting coupling

1. Pull coupling apart.
2. Place the elastomer spider [A] on one of the two coupling hubs [1].
3. Unscrew locking screws [2].

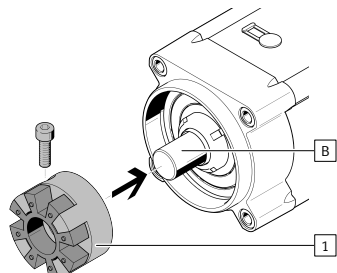


Fig. 3: Pushing on coupling hub, axis side

- Push the coupling [1] with the matching drill hole onto the shaft journal [B].

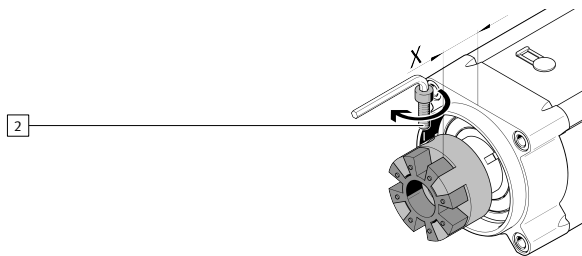


Fig. 4: Aligning coupling hub, axis side

1. Observe distance (X) → 5.1.2 Coupling alignment.
2. Tighten axis-side locking screw [2].

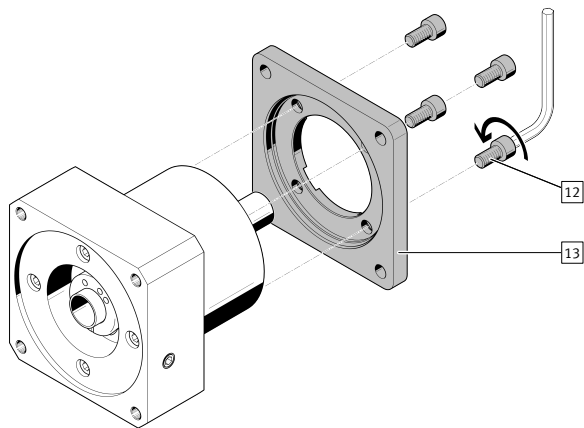


Fig. 5: Mounting motor flange, gear unit side

- Mount the motor flange [13] on the gear unit using the screws [12].

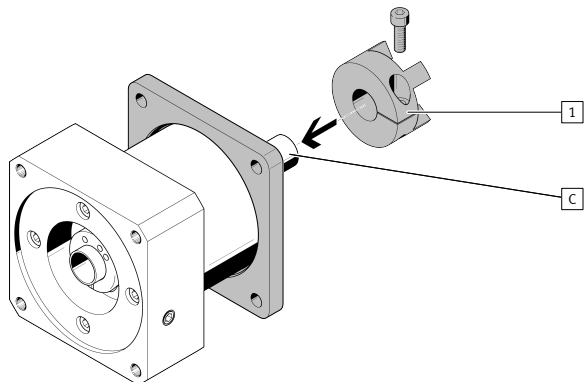


Fig. 6: Pushing on coupling hub, gear unit side

- Push the coupling [1] with the matching drill hole onto the shaft journal [C].

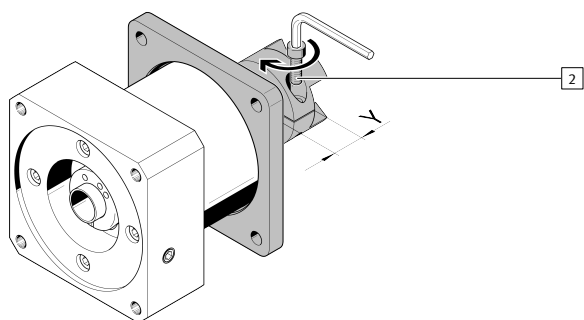


Fig. 7: Aligning coupling hub, gear unit side

1. Maintain distance (Y) → 5.1.2 Coupling alignment.
2. Tighten clamping screw [2] on the gear unit side.

5.1.2 Coupling alignment

NOTICE

Axial forces on the shafts of gear unit and axis.

Increased wear.

- Maintain distances.

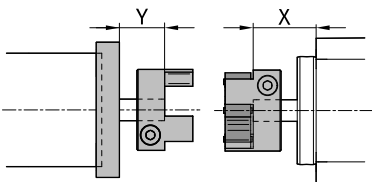


Fig. 8: Aligning coupling hubs

EAMM-A-	gear unit side	axis side
	$Y \pm 0.5$ [mm]	$X \pm 0.5$ [mm]
D100-120G	46.5	33

Tab. 3: Coupling distances X and Y

5.1.3 Gear unit and axis connection

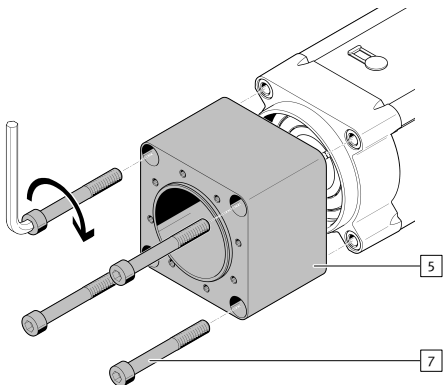


Fig. 9: Mounting coupling housing

- Mount the coupling housing [5] to the axis using the screws [7].

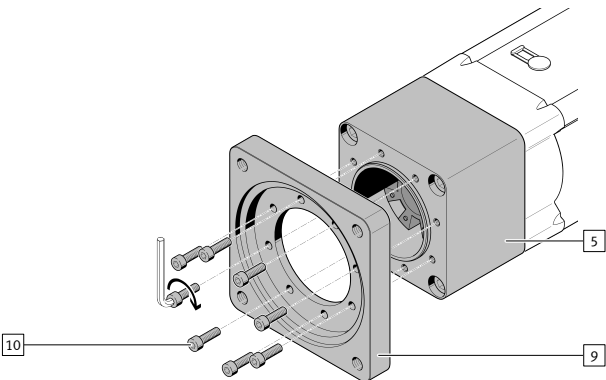


Fig. 10: Mounting motor flange

- Mount the motor flange [9] with the screws [10] on the coupling housing [5].

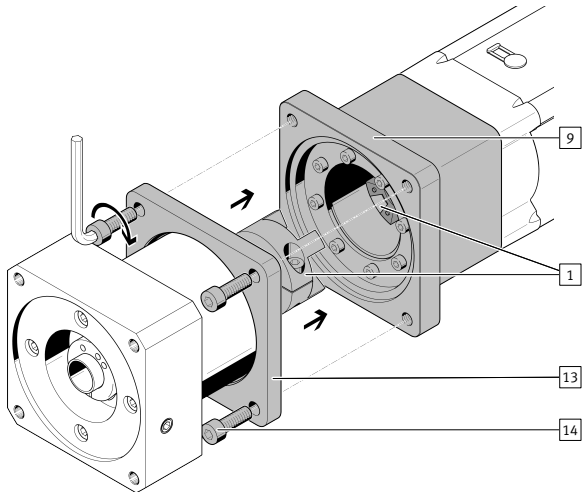


Fig. 11: Mounting the gear unit

1. Push gear unit and axis together completely. Pay attention to the correct relative position of the coupling hubs [1].
 ↳ There is no gap between the motor flange [13] and motor flange [9].
2. Attach the gear unit over the motor flange [13] to the motor flange [14] using the screws [9].

5.2 Support of the axis/gear unit combination

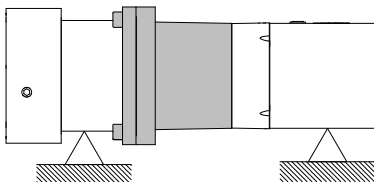


Fig. 12

- Support the combination so it is free from tension to avoid damage.

 CAUTION

Risk of injury from touching hot surfaces.

The motor connecting kit becomes hot due to the heat dissipation of the motor.

- Do not touch the motor connecting kit during operation or immediately after-ward.

7 Technical data

7.1 Screw sizes and tightening torques

EAMM-A-	[2]	[Nm]	[7]	[Nm]	[10]	[Nm]	[12]	[Nm]
D100-120G	M8x25	35	M10x80	25	M6x20	10	M10x20	30

Tab. 4: Screws [2] ... [12]

EAMM-A-	[14]	[Nm]
D100-120G	M10x30	30

Tab. 5: Screw [14]