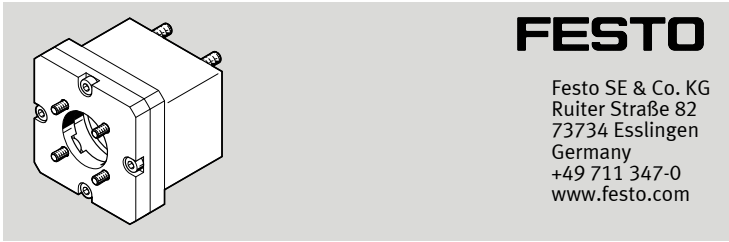


EAMM-A-S...-...G/H-8
Axial kit



Assembly instructions

8137011
2021-01a
[8137013]



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 shafts. The coupling hubs [1] grip without slipping only on dry and grease-free drive shafts.
- Maintain proper alignment of the coupling hubs [1].
- Support the combination:
 - if there are protruding or heavy motor attachments
 - if there are severe vibrations or oscillation/shock loads
- Perform a homing procedure each time after disconnecting or turning the motor.
- Select required mounting components. The kit contains all the mounting components that may be required.
- Observe tightening torques. Unless otherwise specified, the tolerance is ± 20 %.

2.2 Intended use

2.2.1 Use

Connecting an axis to a gear unit in axial configuration to the driven shaft.

2.2.2 Permissible axes and motors

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.

- Derive the axis and motor from the interface codes.

Example: EAMM-A-S38-40G

S38: axis interface

40G: motor interface

Axis interface	Axis ¹⁾
S38	EGC-70-...-BS, EGC-HD-125-...-BS, ELGA-BS-KF-70
S48	EGC-80-...-BS, EGC-HD-160-...-BS, ELGA-BS-KF-80

1) Spindle axis EGC-BS/ELGA-BS-KF

Tab. 1

Gear unit interface	Gear unit
40G	EMGA-40, third-party gear unit
50GA	Third-party gear unit
60G	EMGA-60-...-SAS/-SST, third-party gear unit
60H	EMGA-60-_-EAS, EMGC-60, third-party gear unit

Tab. 2

i

It is the responsibility of users to qualify third-party gear units with the matching mechanical interface for the combination.

You can find out which third-party gear units are suitable from your local Festo contact partner or from → 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

- Accessories → www.festo.com/catalogue.

4 Scope of delivery - Variant H

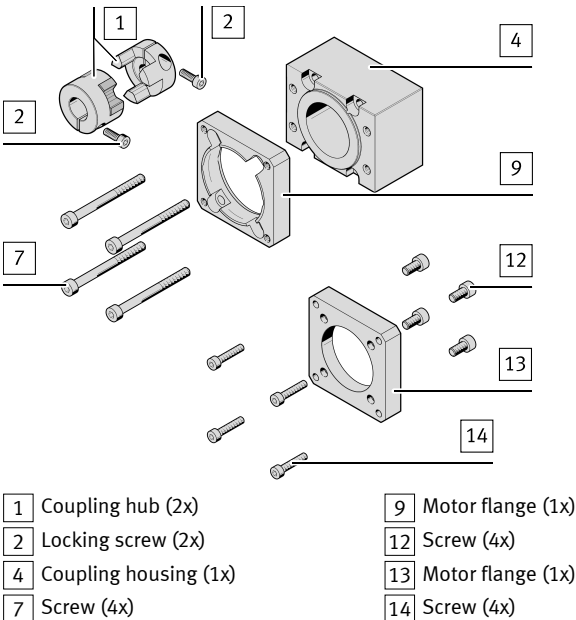


Fig. 1 Basic scope of delivery

5 Assembly

5.1 Assembly

5.1.1 Coupling preassembly

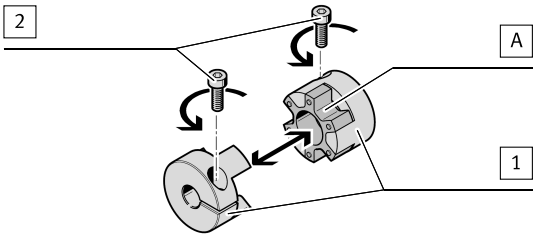


Fig. 2 Disconnect the coupling

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

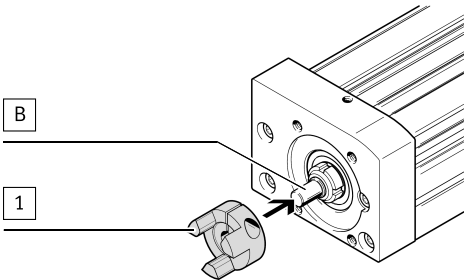


Fig. 3 Pushing on the coupling hub, axis side

- Push the coupling hub [1] with the matching drilled hole onto the drive shaft [B].

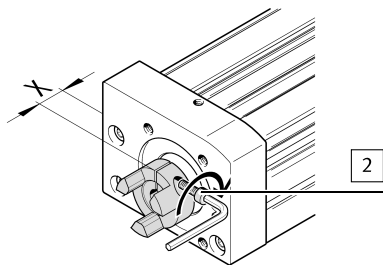


Fig. 4 Aligning the coupling hub, axis side

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

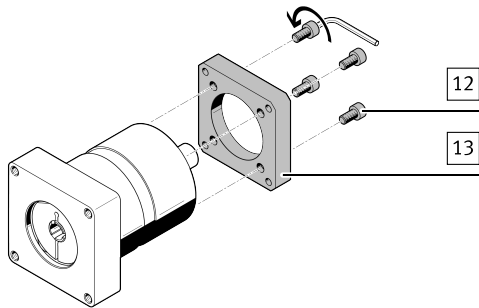


Fig. 5 Mounting the motor flange, gear unit side

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

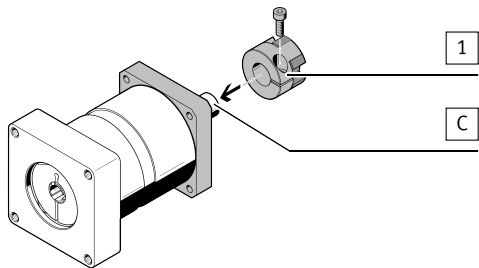


Fig. 6 Pushing on the coupling hub, axis side

- Push the coupling hub [1] with the matching drilled hole onto the drive shaft [C].

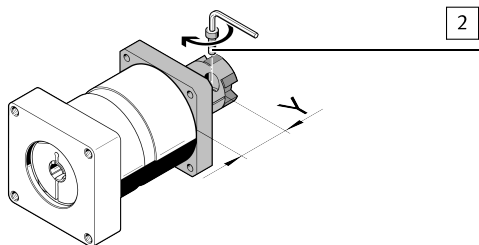


Fig. 7 Aligning the coupling hub, gear unit side

1. Observe distance (Y) → 5.1.2 Coupling alignment.
2. Tighten the locking 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.

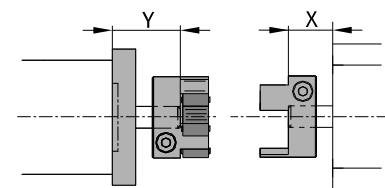


Fig. 8 Aligning the coupling hubs

EAMM-A-	Gear unit side	Axis side
	$Y \pm 0.3$ [mm]	$X \pm 0.3$ [mm]
S38-40G-G2	26.3	16.3
S38-50GA	24.6	16.3

EAMM-A-	Gear unit side	Axis side
	$Y \pm 0.3$ [mm]	$X \pm 0.3$ [mm]
S48-60G-G2	35.0	16.1
S48-60H-G2	35.0	16.1

Tab. 3

5.1.3 Connection, gear unit and axis - Variant H

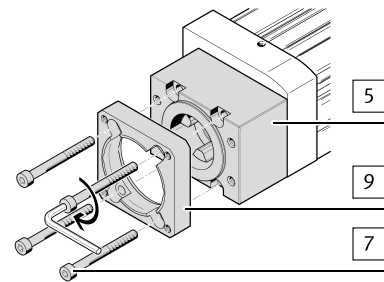


Fig. 9 Mounting the motor flange and coupling housing

1. Place the coupling housing [5] on the axis.
2. Mount the motor flange [9] and the coupling housing [5] to the axis using the screws [7].

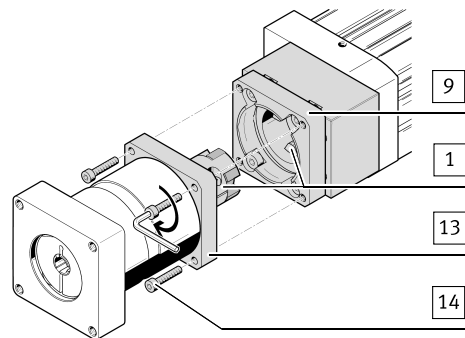


Fig. 10 Mounting the gear unit

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. Mount the gear unit over the motor flange [13] to the motor flange [9] using the screws [14].

5.2 Fitting

5.2.1 Support of the axis/gear unit combination

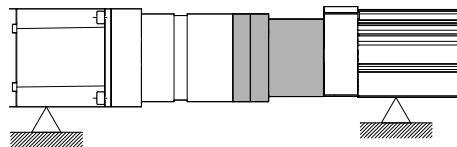


Fig. 11

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

6 In operation

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 afterward.

7 Technical data

7.1 Screw sizes and tightening torques

Variant H

EAMM-A-	[2]	[Nm]	[7]	[Nm]	[12]	[Nm]	[14]	[Nm]
S38-40G-G2	M4x12	4	M5x50	6	M4x10	3	M4x12	3
S38-50GA	M4x12	4	M5x50	6	M4x10	3	M4x20	3
S48-60G-G2	M4x12	4	M5x55	6	M5x10	6	M4x20	3
S48-60H-G2	M4x12	4	M5x55	6	M5x10	6	M4x20	3

Tab. 4