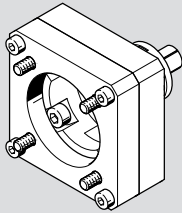


EAMM-A-M...-...G/H-7


Axial kit



FESTO

Festo SE & Co. KG
Ruiter Straße 82
73734 Esslingen
Germany
+49 711 347-0

www.festo.com


8119524

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.

Document	Product	Table of contents
Operating instruction	Gear unit	–
Operating instruction	Axis	–

Tab. 1: Applicable documents

2 Safety

2.1 Safety instructions

- Only mount the product on components that are in a condition to be safely operated.
- Clean the shafts and hollow shafts. The coupling only grips without slipping on a dry and grease-free shaft surface.
- Clean the coupling hub [1]:
 - Degrease the clamping pivot [G] on the outside diameter. Do not degrease the expanding mandrel cone [H].
 - Degrease the clamping hole.
- Maintain the alignment of the coupling hub [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.
- Observe the tightening torques. Unless otherwise specified, the tolerance is $\pm 20\%$.

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-M43-60G

M43: axis interface

60G: gear unit interface

Axis interface	Axis
M43	EGC-HD-125-...-TB
M48	EGC-HD-160-...-TB
M80	EGC-HD-220-...-TB

Tab. 2: Permissible axes

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
70GA	Third-party gear unit
80G	EMGA-80, third-party gear unit
90GA	Third-party gear unit
90GB	Third-party gear unit
120G	EMGA-120, third-party gear unit
120GC	Third-party gear unit

Tab. 3: Permissible gear units

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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.
- Accessories → www.festo.com/catalogue.

4 Scope of delivery

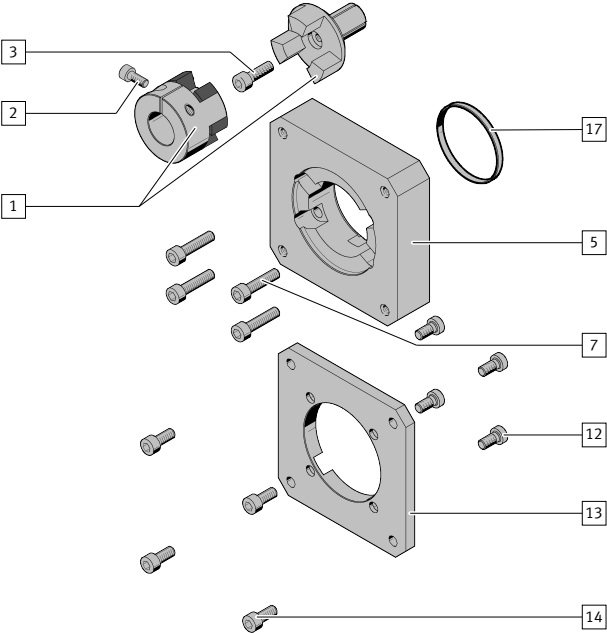


Fig. 1: Scope of delivery

1	Coupling hub (2x)	12	Screw (4x)
2	Clamping screw (1x)	13	Motor flange (1x)
3	Clamping screw (1x)	14	Screw (4x)
5	Coupling housing (1x)	17	Centring ring (1x)
7	Screw (4x)		

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If the centring ring [17] is not in scope of delivery, it is not required for assembly.

5 Assembly

5.1 Preparation

The motor can be mounted in 4 positions with these kits for the axis EGC-HD-TB.

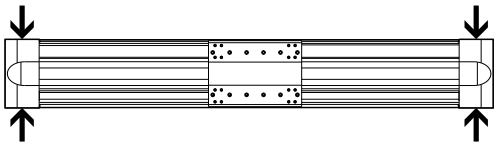


Fig. 2: Connection options

- Select one of the connection options.

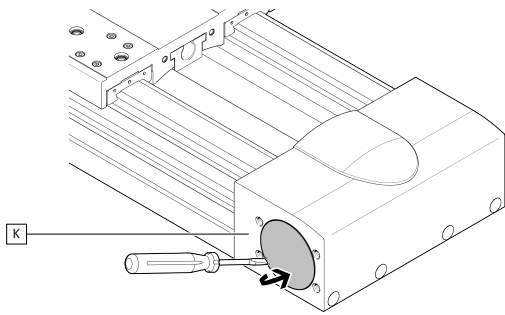


Fig. 3: Lever off the cover

1. Insert a screwdriver into the recess in the drive cover [K].
2. Lever off the cover.

5.2 Assembly

5.2.1 Preassembly of coupling

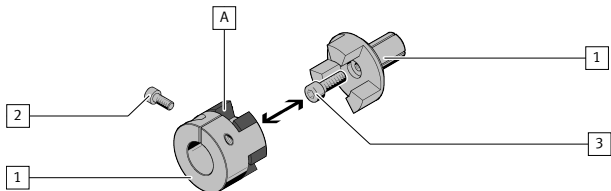


Fig. 4: Disconnecting coupling

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

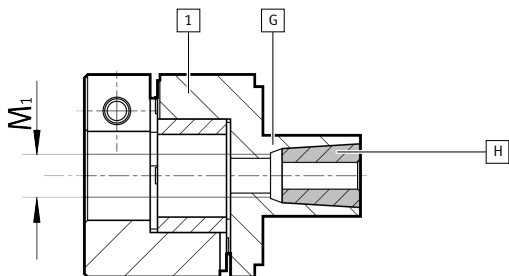


Fig. 5: Expanding mandrel cone in the clamping pivot

- Check the expanding mandrel cone [H].
 ↳ The expanding mandrel cone [H] must sit loosely in the clamping pivot [G], otherwise it cannot be mounted.

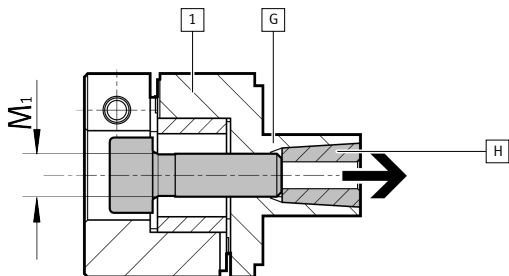


Fig. 6: Press out the stuck expanding mandrel cone

The extraction thread M_1 is provided for loosening

- Screw a screw into the M_1 thread and press out the jammed expanding mandrel cone [H] → 7 Technical data.

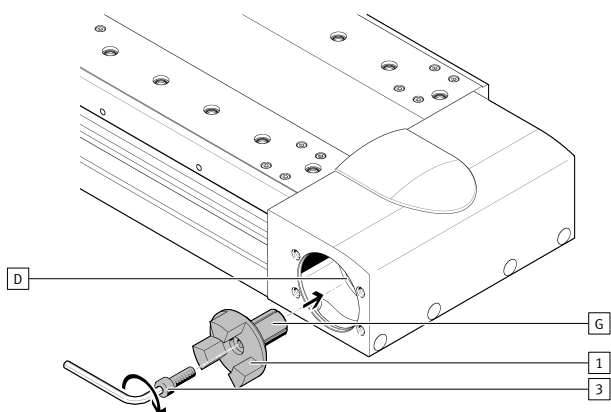


Fig. 7: Mounting the coupling hub, axis side

1. Push the slide into the end position.
 ↳ Prevents the hollow shaft [D] from turning when the clamping screw [3] is tightened.

2. Push the coupling hub [1] with the clamping pivot [G] into the hollow shaft [D] up to the stop.
3. Tighten the locking screw [3].

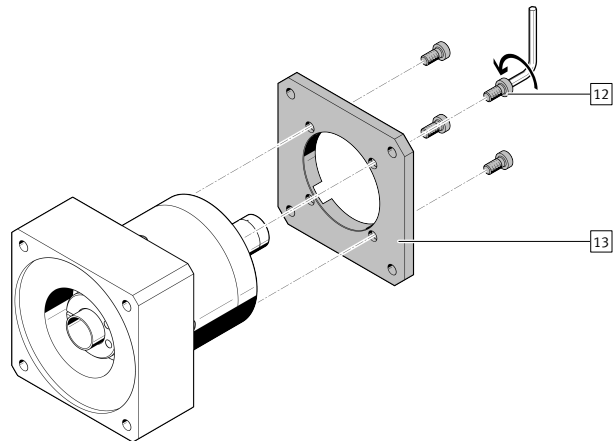


Fig. 8: Mounting motor flange

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

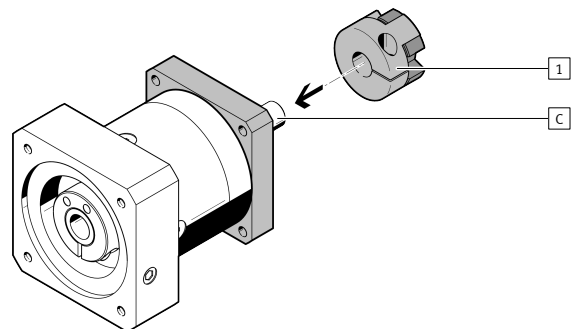


Fig. 9: Pushing on coupling hub, gear unit side

- Slide the coupling hub [1] onto the drive shaft adapter [C] with the appropriate hole size.

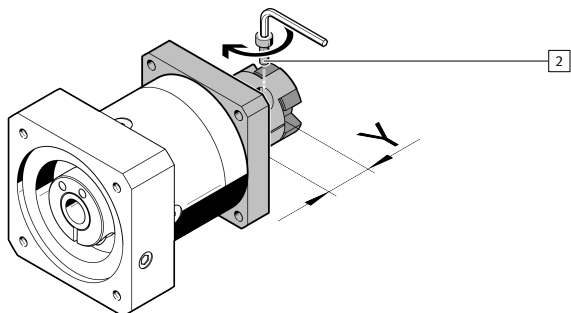


Fig. 10: Aligning coupling hub, gear unit side

1. Maintain distance (Y) → 5.2.2 Coupling alignment.
2. Tighten clamping screw [2] on the gear unit side.

5.2.2 Coupling alignment

NOTICE

Axial forces on the shafts of gear unit and axis.

Increased wear.

- Maintain distances.

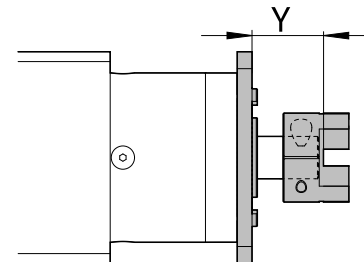


Fig. 11: Aligning coupling hub

EAMM-A-	$Y \pm 0.3$ [mm]
M43-40G	13.4
M43-50GA	13.3
M43-60G	22.8
M43-60H	22.8
M43-70GA	21.5
M48-40G	18.3

EAMM-A-	Y ± 0.3 [mm]
M48-50GA	18.3
M48-60G	26.8
M48-60H	22.1
M48-70GA	21.4
M48-80G	33.1
M48-90GA	21.7
M48-90GB	20.6
M80-90GA	28
M80-90GB	28
M80-120G	37
M80-120GC	39

Tab. 4: Coupling distance Y

5.2.3 Gear unit and axis connection

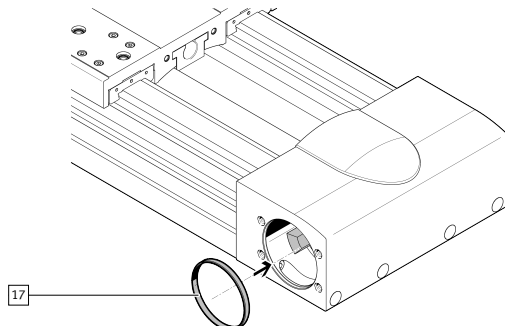


Fig. 12: Place centring ring

- Place the centring ring [17] (if available) in the slot in the drive cover.

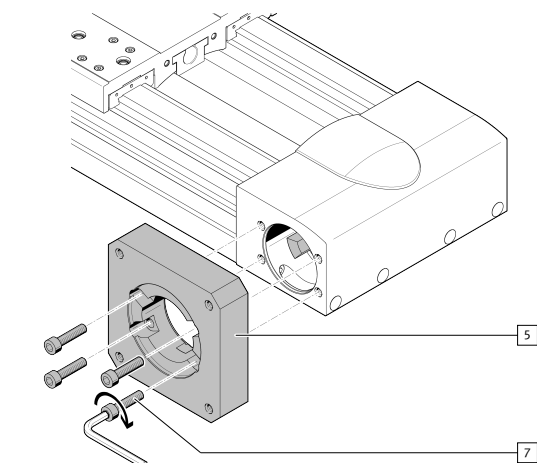


Fig. 13: Mounting coupling housing

- Mount the coupling housing [5] on the axis with the screws [7].

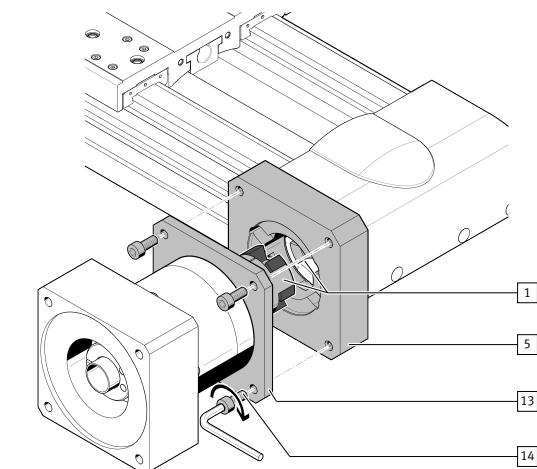


Fig. 14: Mounting gear unit

- Push gear unit and axis together completely. Ensure that the coupling hubs [1] are in the correct relative position.
 - There is no gap between the motor flange [9] and coupling housing [5].
- Mount the gear unit over the motor flange [13] to the coupling housing [14] with the screws [5].

5.3 Support of the axis/gear unit combination

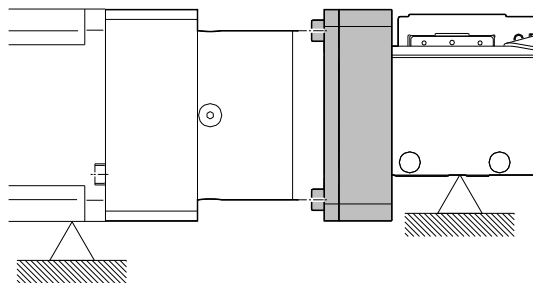


Fig. 15: Support of the axis/gear unit combination

- 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

EAMM-A-	[2]	[Nm]	[3]	[Nm]	[7]	[Nm]	[12]	[Nm]
M43-40G	M4x12	4	M5x18	7	M6x16	10	M4x16	3
M43-50GA	M4x12	4	M5x18	7	M6x16	10	M4x16	3
M43-60G	M4x12	4	M5x18	7	M6x25	10	M5x10	6
M43-60H	M4x12	4	M5x18	7	M6x25	10	M5x10	6
M43-70GA	M4x12	4	M5x18	7	M6x20	10	M5x16	6
M48-40G	M5x18	8	M6x20	8.5	M6x16	10	M4x12	3
M48-50GA	M5x18	8	M6x20	8.5	M6x16	6	M4x12	3
M48-60G	M5x18	8	M6x20	8.5	M6x20	10	M5x12	6
M48-60H	M5x18	8	M6x20	8.5	M6x18	10	M5x10	6
M48-70GA	M5x18	8	M6x20	8.5	M6x16	10	M5x16	6
M48-80G	M5x18	8	M6x20	8.5	M6x25	10	M6x12	6
M48-90GA	M5x18	8	M6x20	8.5	M6x20	10	M6x20	10
M48-90GB	M5x18	8	M6x20	8.5	M6x20	10	M8x20	18
M80-90GA	M6x20	15	M8x25	24	M8x20	18	M6x20	10
M80-90GB	M6x20	15	M8x25	24	M8x20	18	M8x16	18
M80-120G	M6x20	15	M8x25	24	M8x18	18	M10x20	30
M80-120GC	M6x20	15	M8x25	24	M8x20	18	M8x35	18

Tab. 5: Screws [2] ... [12]

EAMM-A-	[14]	[Nm]
M43-40G	M5x16	6
M43-50GA	M5x16	6
M43-60G	M4x20	3
M43-60H	M4x20	3
M43-70GA	M5x25	6
M48-40G	M5x12	6
M48-50GA	M5x12	6
M48-60G	M4x16	3
M48-60H	M4x20	3
M48-70GA	M5x20	6
M48-80G	M6x20	10
M48-90GA	M6x20	10
M48-90GB	M6x20	10
M80-90GA	M8x20	18
M80-90GB	M8x20	18
M80-120G	M8x20	18
M80-120GC	M8x40	18

Tab. 6: Screw [14]

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The tightening torque of the clamping screw [3] specified here is sufficient for the maximum driving torque of the permissible axis. The required tightening torque is also specified on the coupling packaging.

7.2 Extraction thread M₁

EAMM-A-	M ₁
M43	M6
M48	M8
M80	M10

Tab. 7: Extraction thread M₁