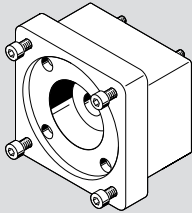


EAMM-A-S...-...A/P/R-1

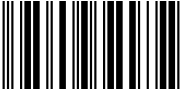
Axial kit



FESTO

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8237216

Assembly instructions
8237216
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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	Motor	–
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. The coupling hubs [1] grip without slipping only on dry and grease-free drive shaft adapters.
- 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.
- Observe the tightening torques. Unless otherwise specified, the tolerance is ± 20%.

2.2 Intended use

2.2.1 Use

The axial kit connects an axis to a motor configured axially 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.

- Take the axis and the motor from the interface codes.
Example: EAMM-A-S95-150A
S95: axis interface
150A: motor interface

Axis interface	Axis
S38	EGC-70-...-BS, EGC-HD-125-...-BS, ELGA-BS-...-70
S48	EGC-80-...-BS, EGC-HD-160-...-BS, ELGA-BS-...-80
S60	ELGD-BS-120, ELGD-BS-WD-200
S62	EGC-120-...-BS, EGC-HD-220-...-BS, ELGA-BS-...-120
S95	EGC-185-...-BS, ELGA-BS-...-150

Tab. 2: Permissible axes

Motor interface	Motor
55A	EMMS-AS-55, third-party motor
60P	EMMB-/EMME-/EMMT-AS-60, third-party motor

Motor interface	Motor
60R	Third-party motor
60RA	Third-party motor
80P	EMMB-/EMME-/EMMT-AS-80, third-party motor
80PB	Third-party motor
100A	EMME-/EMMS-/EMMT-AS-100, third-party motor
150A	EMMS-AS-140, EMMT-AS-150

Tab. 3: Permissible motors

It is the responsibility of users to qualify third-party motors with the matching mechanical interface for the combination.
To find out which third-party motors are suitable, consult your regional Festo contact or → 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

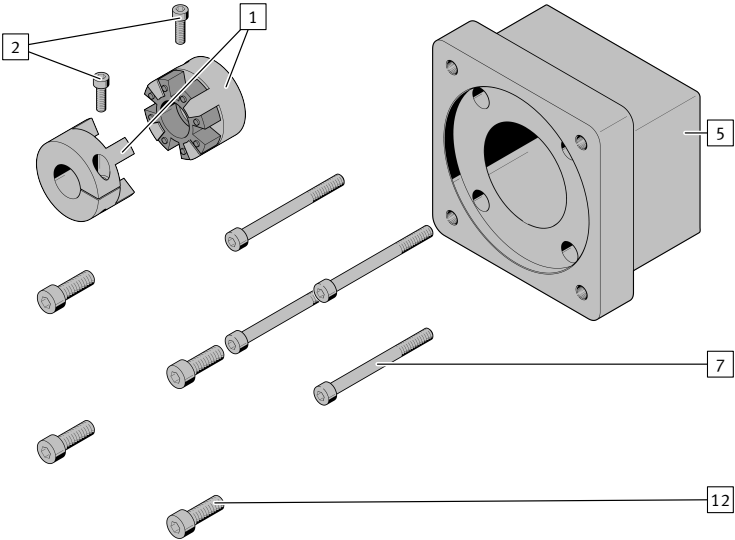


Fig. 1: Scope of delivery

- 1

Coupling hub (2x)
- 2

Clamping screw (2x)
- 5

Coupling housing (1x)
- 7

Screw (4x)
- 12

Screw (4x)

5 Mounting

5.1 Assembling

5.1.1 Preassembly of coupling

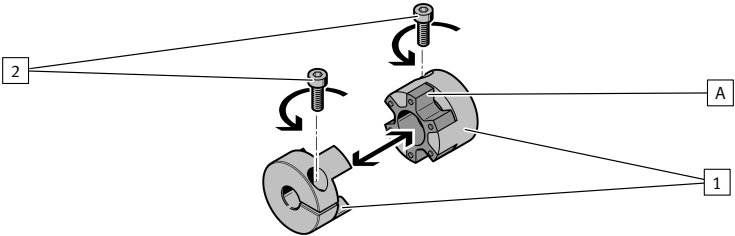


Fig. 2: Disconnecting coupling

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].

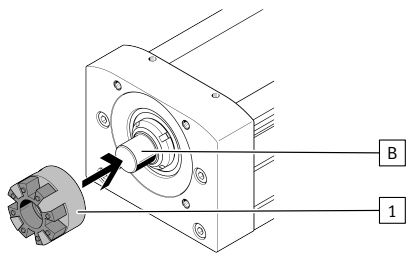


Fig. 3: Pushing on coupling hub, axis side

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

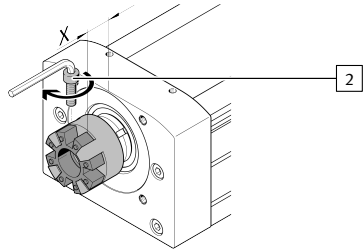


Fig. 4: Aligning coupling hub, axis side

- Maintain the distance (X) → 5.1.2 Alignment of coupling.
- Tighten the axis-side clamping screw [2].

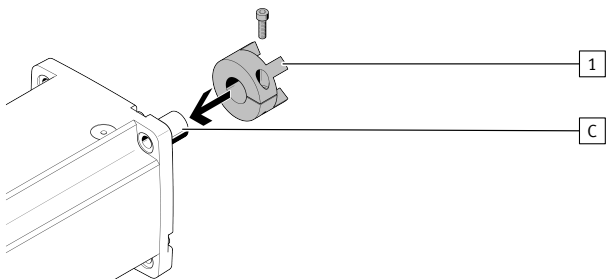


Fig. 5: Pushing on coupling hub, motor side

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

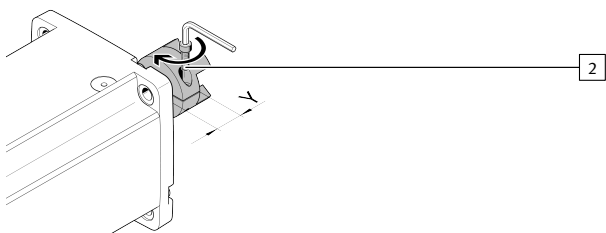


Fig. 6: Aligning coupling hub, motor side

- Maintain distance (Y) → 5.1.2 Alignment of coupling.
- Tighten all clamping screws [2] on the motor side.

5.1.2 Alignment of coupling

NOTICE

Axial forces on the shafts of motor and axis.

Axial forces result in failure of the encoder/brake or increased wear.

- Maintain distances.

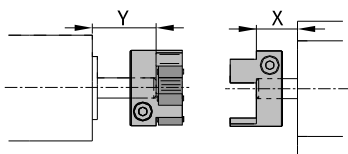


Fig. 7: Aligning coupling hubs

EAMM-A-	motor side Y ± 0.3 [mm]	axis side X ± 0.3 [mm]
S38-55A-G3	19.3	16.3
S38-60P-G3	21.3	16.3
S38-60R-G2	21.3	16.3
S38-60RA-G2	21.3	16.3
S48-60P-G3	22.8	16.3
S48-60R-G2	22.8	16.3
S48-60RA-G2	22.8	16.3
S48-80P	33.5	22.5
S48-80PB	33.5	22.5
S60-100A	37.9	23.5

EAMM-A-	motor side Y ± 0.3 [mm]	axis side X ± 0.3 [mm]
S62-100A-G3	39	25
S95-150A-G2	50.0	27.3

Tab. 4: Coupling distances X and Y

5.1.3 Motor and axis connection

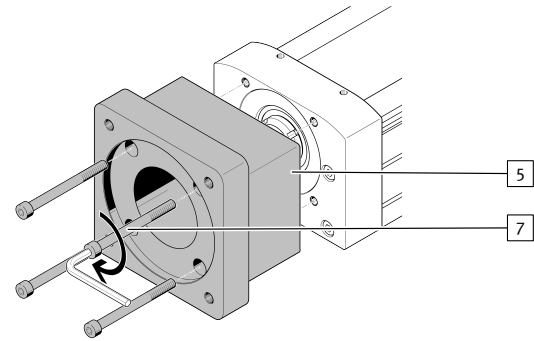


Fig. 8: Mounting coupling housing

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

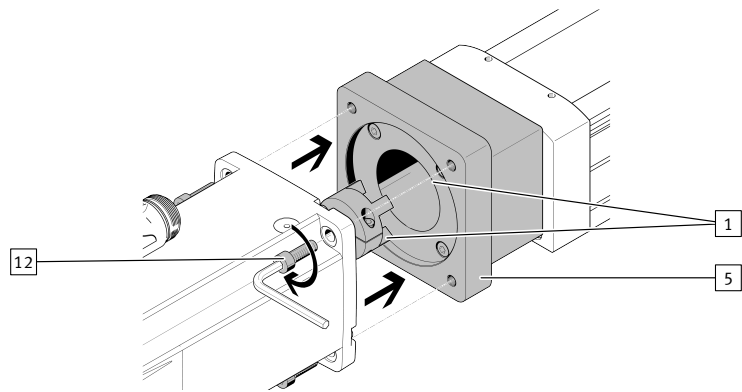


Fig. 9: Mounting motor

- Push the motor and the axis together completely. Ensure that the coupling hubs [1] are in the correct relative position.
 - There is no gap between the motor and coupling housing [5].
- Mount the motor on the coupling housing [5] with the screws [12].

5.2 Supporting frame for the axis-motor combination

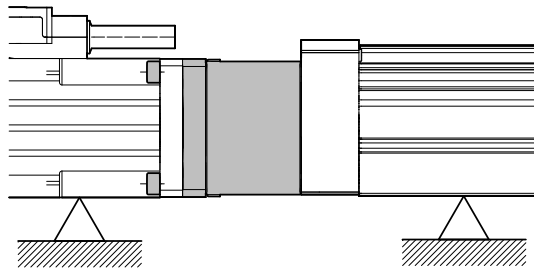


Fig. 10: Supporting frame for the axis-motor combination

- 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]	[7]	[Nm]	[12]	[Nm]
S38-55A-G3	M4x12	4	M5x50	6	M5x18	6
S38-60P-G3	M4x12	4	M5x45	6	M4x18	3
S38-60R-G2	M4x12	4	M5x45	6	M4x18	3
S38-60RA-G2	M4x12	4	M5x45	6	M4x18	3
S48-60P-G3	M4x12	4	M5x45	6	M4x18	3
S48-60R-G2	M4x12	4	M5x45	6	M4x18	3
S48-60RA-G2	M4x12	4	M5x45	6	M4x18	3
S48-80P	M5x18	8	M5x65	6	M5x20	6
S48-80PB	M5x18	8	M5x65	6	M5x20	6

EAMM-A-	[2]	[Nm]	[7]	[Nm]	[12]	[Nm]
S60-100A	M5x18	8	M8x65	18	M8x25	18
S62-100A-G3	M5x18	8	M6x75	10	M8x25	18
S95-150A-G2	M6x20	15	M8x90	18	M10x30	30

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