



SEW
EURODRIVE

Addendum to the Operating Instructions



CMS..50 – 71, CMSM..50 – 71 Electric Cylinders
Cardanic Mounting
KD, KDD, KDC, FKDC



1 Cardan joint assembly

INFORMATION



Observe the following notes when installing the cardan joint:

- Observe the safety and warning instructions in the applicable "CMS..50 – 71 Electric Cylinders" operating instructions.
- The pivoting angle of the cardan joint to the electric cylinder must not exceed $\pm 3^\circ$.

⚠ WARNING

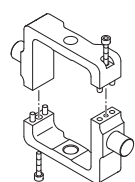
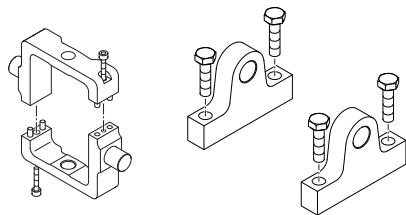


During assembly, operation or disassembly of the electric cylinder, there is a risk of crushing injuries of hands or body parts near the cardan joint parts.

Serious injuries.

- Do not touch the cardan joint parts during operation.
- Keep sufficient distance from the drive.
- Install protection devices in the plant structure.

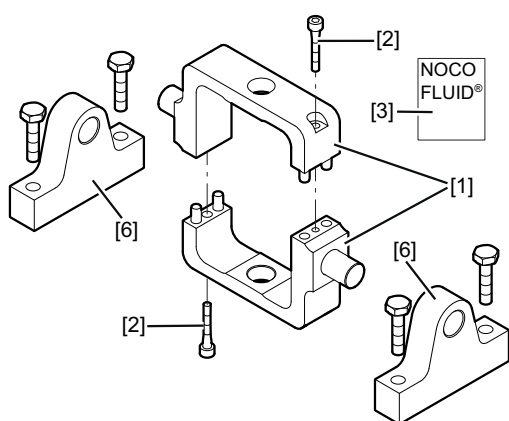
1.1 KD, KKD design (mounted to B-side)

Design	Figure
KD Cardan joint	 24005237003
KKD Cardan joint including cardan mounting kit	 24005243915

Cardan joint assembly

KD, KKD design (mounted to B-side)

1.1.1 Mounting kit



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- 1 × cardan joint [1]
- 2 × cap screws [2]
- 1 × NOCO® fluid [3]
- 2 × mounting plates (KKD only) [6]

1.1.2 Assembly

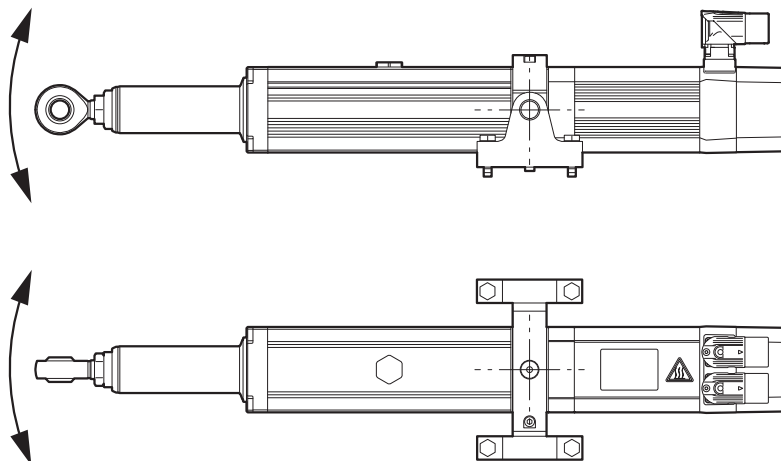


⚠ WARNING

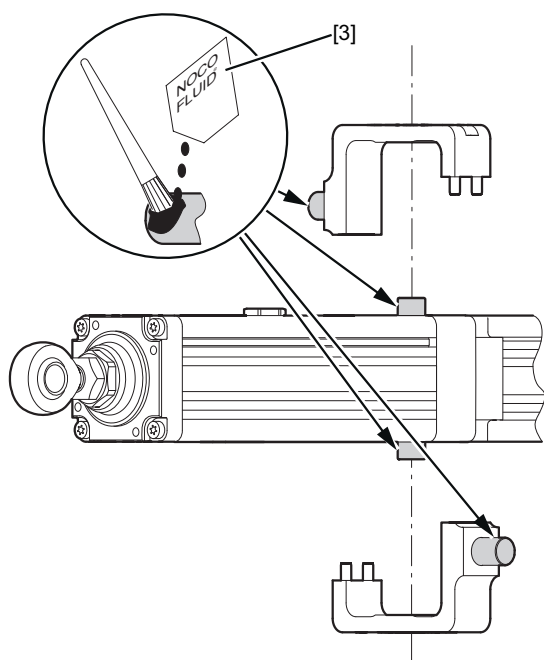
Uncontrolled oscillatory and rotary movements may occur around the cardan joint axes of the electric cylinder during assembly and disassembly of the electric cylinder.

Serious injuries.

- Secure the electric cylinder against uncontrolled oscillatory movement.
- Do not use the motor connection cables to limit movement.
- Do not strain the motor connection cables with tensile forces.

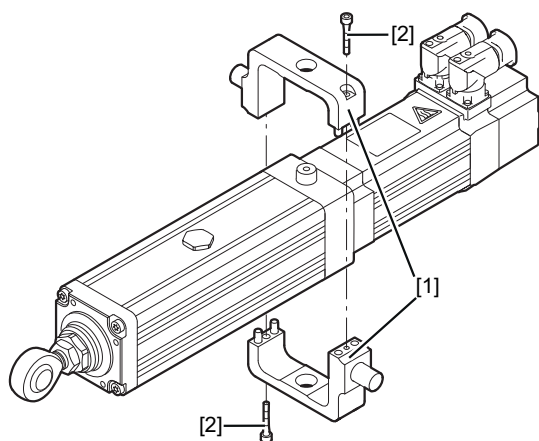


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1. Apply NOCO® fluid [3] to the pins.

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1. Place the cardan joint [1] on the pins of the electric cylinder.
2. Fasten the cardan joint [1] with the 2 cap screws [2].
3. Tighten the 2 cap screws [2] according to the motor size with the tightening torque from the table below.

Tightening torques cap screws [2]

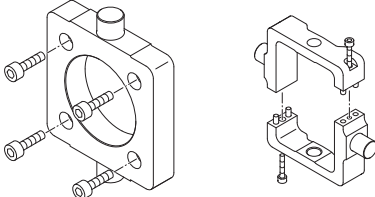
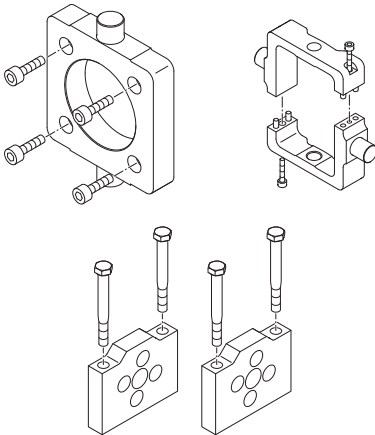
Motor size	Tightening torques ¹⁾
CMS(M)B50	6.5 Nm
CMS(M)B63	11.3 Nm
CMS(M)B71	27.3 Nm

1) Values $\pm 20\%$

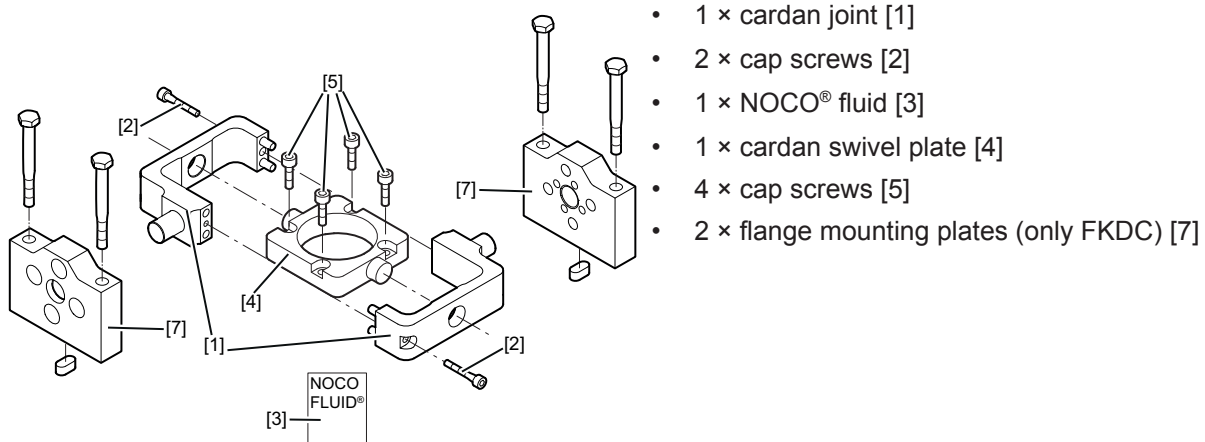
1.2 KDC, FKDC design (mounted to C-side)**INFORMATION**

Observe the following notes when installing this design of the cardan joint:

- Installation of the electric cylinder in this design is only permitted for the vertical mounting positions M2 and M4.
- This design cannot be used in combination with CMSMB.. with axes mounted in parallel (AP). Under certain conditions, application is possible in cases with low working stroke. Contact SEW-EURODRIVE in such cases.

Design	Figure
KDC Cardan joint	 24004341387
FKDC Cardan joint including flange mounting kit	 24004345739

1.2.1 Mounting kit



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1.2.2 Assembly

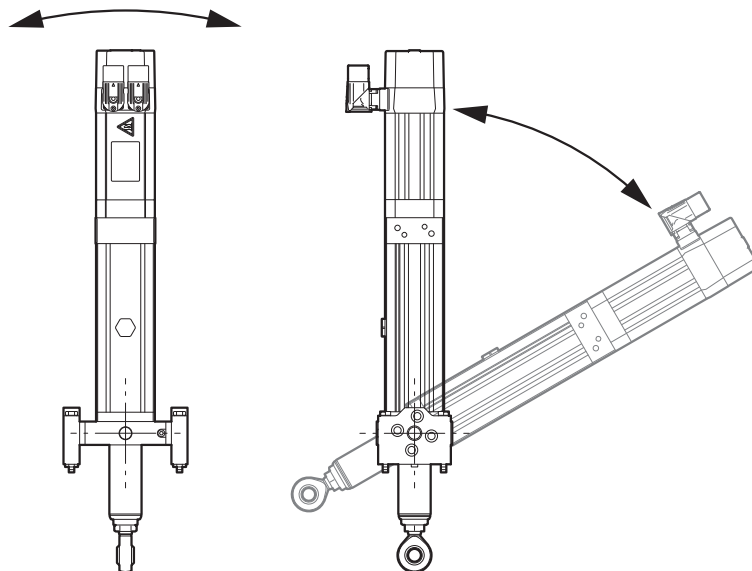


⚠ WARNING

Unintended movement may occur during assembly and disassembly due to the shift of the electric cylinder's center of mass.

Serious injuries.

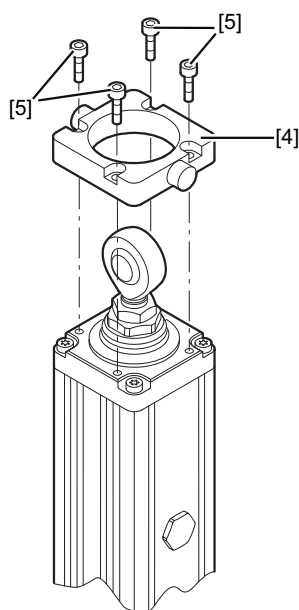
- Provide devices limiting movement in the plant structure.
- Secure the electric cylinder against uncontrolled oscillatory movement.
- Do not use the motor connection cables to limit movement.
- Do not strain the motor connection cables with tensile forces.



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Cardan joint assembly

KDC, FKDC design (mounted to C-side)



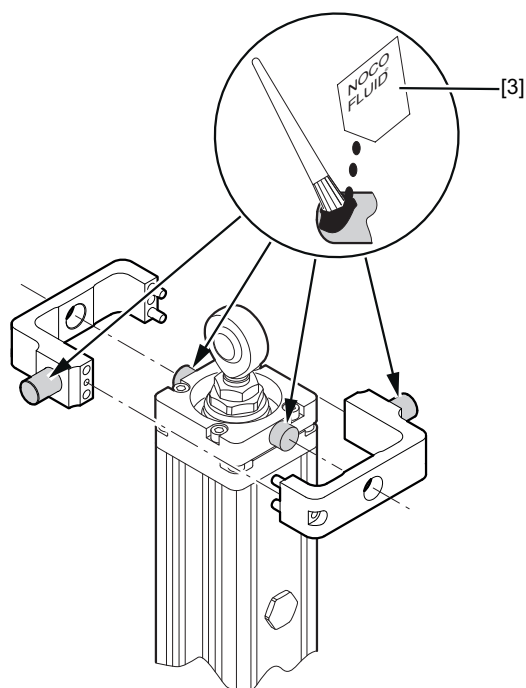
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1. Place the cardan swivel plate [4] on the mounting surface of the electric cylinder.
2. Fasten the cardan swivel plate [4] with the 4 cap screws [5].
3. Tighten the 4 cap screws [5] according to the motor size with the tightening torque from the table below.

Tightening torques cap screws [5]

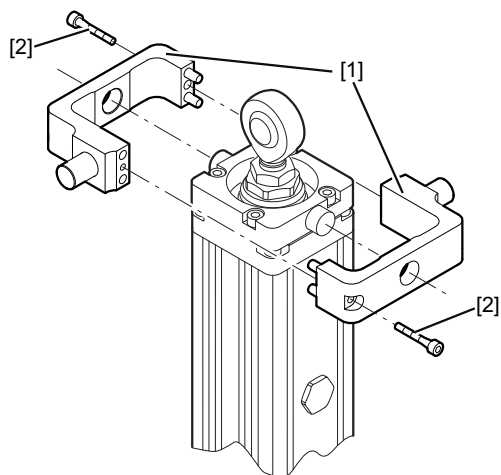
Motor size	Tightening torque ¹⁾
CMS(M)B50	11.3 Nm
CMS(M)B63	11.3 Nm
CMS(M)B71	54.0 Nm

1) Values $\pm 20\%$



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1. Apply NOCO® fluid [3] to the pins.



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1. Place the cardan joint [1] on the pins of the cardan swivel plate.
2. Fasten the cardan joint [1] with the 2 cap screws [2].
3. Tighten the 2 cap screws [2] according to the motor size with the tightening torque from the table below.

Tightening torques cap screws [2]

Motor size	Tightening torques ¹⁾
CMS(M)B50	6.5 Nm
CMS(M)B63	11.3 Nm
CMS(M)B71	27.3 Nm

1) Values $\pm 20\%$







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