

CASM electric cylinders

1. Intendend use

The adapter kit allows an axial motor mounting of the specified servo motor – linear unit combinations in **chapter 2.**

2. Recommended motors

In principle, beside the recommended motors, also 3rd party motors may be fitted. It is important that torque and speed specifications of the motor do not exceed the permitted values of the linear unit. Detailed information may be found in the technical notes relating to the electrical cylinders. Ewellix recommends the following brushless DC motors (**L table 1**).



Table 1

Fig. 1

Possible electric cylinder/SIEMENS motor combinations

Linear unit	CASM-32			CASM-40			CASM-63		
Screw	Lead screw	Ball screw	Ball screw	Lead screw	Ball screw	Ball screw	Lead screw	Ball screw	Ball screw
	9×1,5	10×3	10×10	12,5×2.5	12×5	12,7×12,7	20×4	20×10	20×20
Motor	1FK7015	1FK7022		1FK7034		1FK7034			
	0,35 Nm 6 000 rpm	0,85 Nm 6 000 rpm		1,60 Nm 6 000 rpm		4,00 Nm 4 500 rpm			

3. Screws and tightening torques M_A

						A		Table 2
	S1 (Clutch Screw	housing) Torque M _A	S2 (Motor Screw	adapter) Torque M _A	S4 (Clutch Screw	1) Torque M _A	S3 (Motor) Screw	Torque M _A
CASM-32 1FK7015	M6×20	4,0 Nm ± 0,5 Nm	M3×12	1,3 Nm ± 0,2 Nm	M2×6	0,6 Nm ± 0,2 Nm	M4×16	3,0 Nm ± 0,3 Nm
CASM-32 -1FK7022	M6×30	4,0 Nm ± 0,5 Nm	M4×12	3,0 Nm ± 0,5 Nm	M4×12	4,0 Nm ± 0,5 Nm	M5×20	5,9 Nm ±0,8 Nm
CASM-40 -1FK7022	M6×30	4,0 Nm ± 0,5 Nm	M4×12	3,0 Nm ± 0,5 Nm	M4×12	4,0 Nm ± 0,5 Nm	M5×20	5,9 Nm ±0,8 Nm
CASM-40 -1FK7034	M6×30	4,0 Nm ± 0,5 Nm	M4×12	3,0 Nm ± 0,5 Nm	M4×12	4,0 Nm ± 0,5 Nm	M6×20	10,1 Nm ±0,8 Nm
CASM-63 -1FK7034	M8×30	8,0 Nm ± 0,8 Nm	M6×16	10,1 Nm ± 0,8 Nm	M5×18	8,0 Nm ± 0,8 Nm	M6×20	10,1 Nm ±0,8 Nm
CASM-63 -1FK7044	M8×30	8,0 Nm ± 0,8 Nm	M6×25	10,1 Nm ± 0,8 Nm	M5×18	8,0 Nm ± 0,8 Nm	M6×25	10,1 Nm ±0,8 Nm





4. Coupling installation

Step 1

Separate the two coupling halves (L) fig. 2)

Step 2

Align the coupling halves to the motor and linear unit shafts, following the specifications of **table 3** or **4**.

Tighten the screws (S4) according the specified torques in table 2.

Note: Do not tighten the screws yet.

Table 3

Positioning dimensions for coupling



	Standard Motor X1	Linear unit Y1		
	mm			
CASM-32-1FK7015	18,5	16,2		
CASM-32-1FK7022	20	18,3		
CASM-40-1FK7022	20,2	18,2		
CASM-40-1FK7034	26,5	14,7		
CASM-63-1FK7034	23,8	23,5		
CASM-63-1FK7044	32,2	23,5		

Table 4

Positioning dimensions for coupling with foot mounting



	Standard Motor X2 mm	Linear unit Y2	Z	
CASM-32-1FK7015	20,9	18,1	4	
CASM-32-1FK7022	23.7	18.9	4	

GASINI-32-1FK/015	20,9	10,1	4
CASM-32-1FK7022	23,7	18,9	4
CASM-40-1FK7022	22,5	20,2	4
CASM-40-1FK7034	30,8	14,7	4
CASM-63-1FK7034	29,1	23,5	5
CASM-63-1FK7044	37,5	23,5	5

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5. Adapter kit installation

Note: The relevant seal must always be fitted between all components to ensure the requisite degree of IP protection



Note: For the following steps, tighten the screws according to **table 2**. If you are using the foot mounting option, please go to **section 5.1**.

Step 1

Mount the coupling housing (K) to the linear unit (LE), by inserting the square seal with the cut-out (D1) between the two components and tightening the housing using four Allen screws (S1).

Foot mounting option - see below: Section 5.1

Step 2

Mount the motor flange (**MF**) to the coupling housing (**K**) by inserting the circular seal (**D2**) in between them. Make sure that the coupling is positioned according to **table 4** for the configuration without the foot mounting kit or **table 5** when using the foot mounting kit. Tighten the screws (**S2**) according to **table 2**.

Step 3

Mount the motor flange (**MF**) to the motor (**M**) by inserting the seal (**D3**) in between and using the four screws (**S3**) (\rightarrow fig. 3) to finish the installation.

5.1 Foot mounting option

Fitting the foot mounting

First fit the foot mounting (FB) to the linear unit (LE) and then the coupling housing (K). Insert one square seal with cut-out (D1) between each of the components, and secure the coupling housing (K) using four Allen screws (S1) to the linear unit (LE) (\rightarrow fig. 4). Continue with Step 2 as described as described in chapter 5.



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