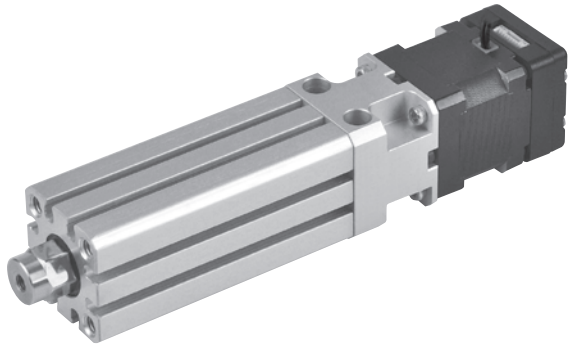
MEJQ series

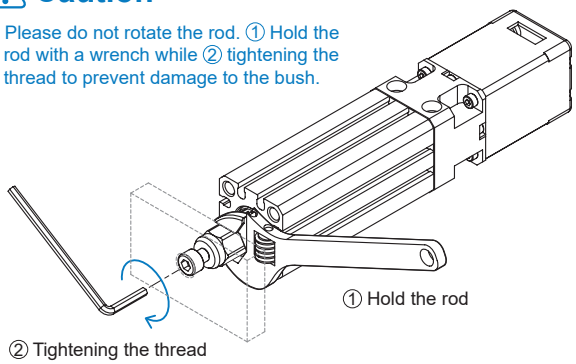
COMPACT ELECTRIC ACTUATOR (WITH MOTOR)



Motor type	Step motor	Transmission	Ball screw
Sensor type	Reed switch	Anti-rotation mech.	Hexagonal rod

Caution

- Please do not rotate the rod. ① Hold the rod with a wrench while ② tightening the thread to prevent damage to the bush.



Feature

- The product use counterbore and thread installation design without any fixed frame to meet the space saving requirements.
- Hexagonal rods for non-rotating feature.
- Anodized aluminum bodies provide better corrosion and abrasion resistance.
- Lightweight rod type electric actuator, providing push and pull functions with ball screw.
- It excels in precision positioning of objects or mechanisms.
- With two grooves on four sides for embedded sensor installation, saving installation space.
- Magnetic as standard.

Specification

Model			MEJQ
Size			20
Positioning repeatability		(mm)	±0.02
Lead		(mm)	2
Maximum speed *1		(mm/s)	≤100
Work load *2	Horizontal *5	(kg)	10
	Vertical	(kg)	1.8
Pushing force *1,3,4		(N)	100 ~ 210
Stroke		(mm)	30 / 50 / 75 / 100
Anti-rotation tolerance			±0.7°
Allowable rotational torque		(kgf-cm)	2.5
Motor size		(mm)	□35
Rated voltage			DC 24V±10%
Sensor switch (*6)			RCE, RCE1

*1. The speed and force may change depending on the cable length, load, stroke, and mounting conditions.
*2. The maximum load capacity decreases as the speed increases.
*3. The accuracy of pushing force is ± 20%.
*4. Pushing force for MEJQ is from 30% to 90%.
*5. Needs to be used with external guide. Do not apply lateral loads or forces directly to the rod.
*6. RCE, RCE1 specifications, please refer to page 5-5~5-6.

Order example

MEJQ – 20 L02 – 30 – CK10 03 N 015

Model

Size / Ball screw lead

Size	Ball screw lead	
20	L02	2 mm

Stroke

30	30 mm
50	50 mm
75	75 mm
100	100 mm

Controller / Motor

Controller	Motor
CK10	SM
CM20 *1	BM

Power + Encoder cable of motor

01	1 m *2
015	1.5 m *3
03	3 m
05	5 m

* Standard: 3 m

I/O type

N	NPN

I/O cable length

015	1.5 m
03	3 m

* Standard: 1.5 m

*1. Sensors would be needed.
*2. Only for **CM20**.
*3. Only for **CK10**.

Speed-load curve diagram

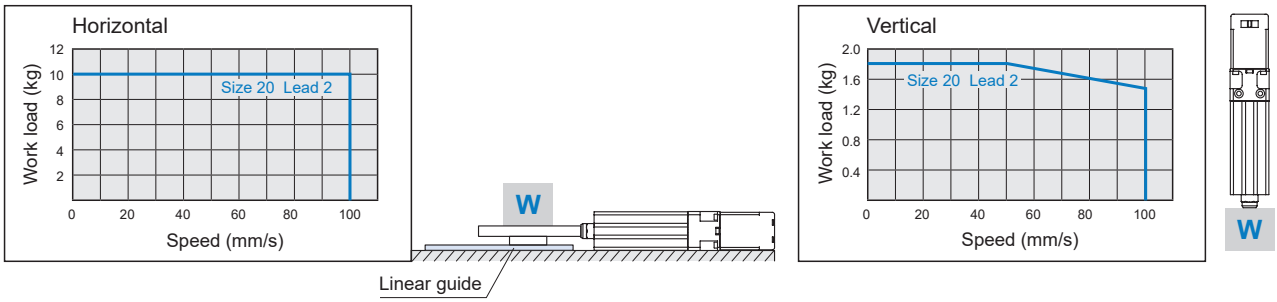
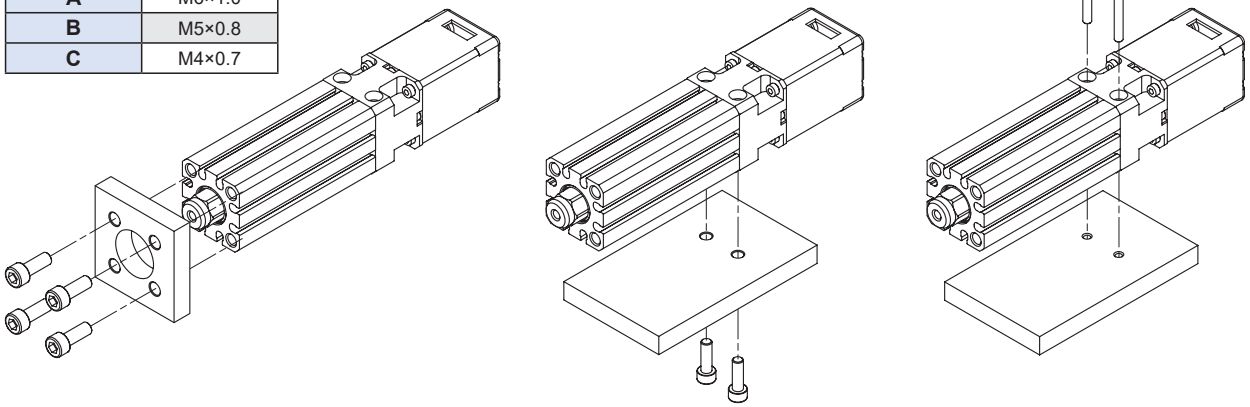


Plate installation

* The plates are prepared by the customers.

Installation method	Bolt specification
A	M6×1.0
B	M5×0.8
C	M4×0.7

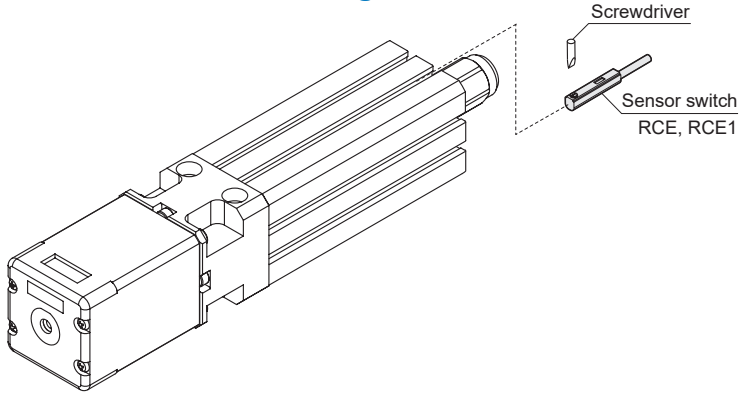


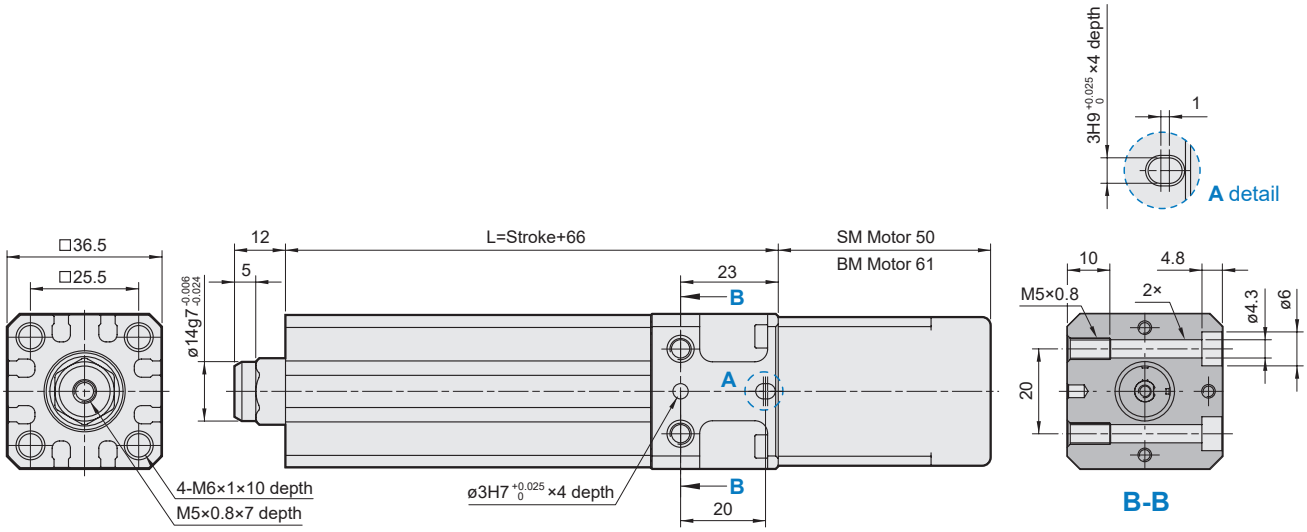
A The plate is positioned in the front, and bolts are mounted from the front.

B The plate is positioned below, and bolts are mounted from below.

C The plate is positioned below, and bolts are mounted from above.

Sensor switch mounting





Stroke	Weight (kg)	
	SM motor	BM motor
30	0.50	0.59
50	0.56	0.65
75	0.62	0.71
100	0.69	0.78