



Selection table



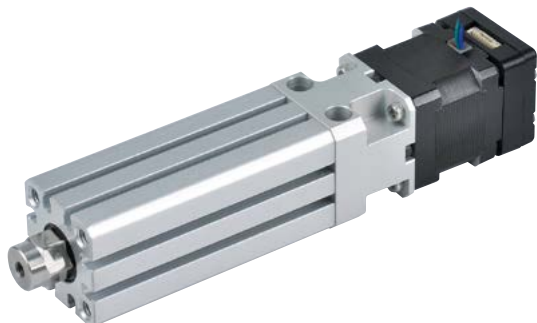
Applications



Motor selection



Controller



Motor type Step motor

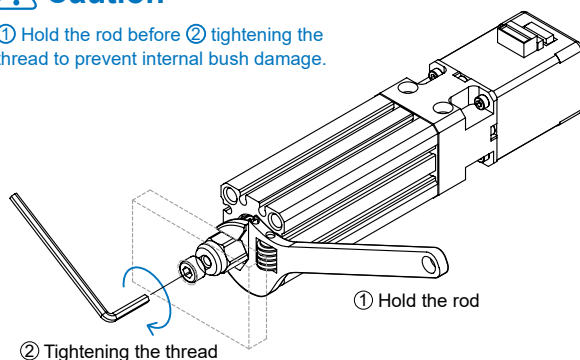
Transmission Ball screw

Sensor type Reed switch

Anti-rotation mech. Hexagonal rod

Caution

① Hold the rod before ② tightening the thread to prevent internal bush damage.



Feature

- Non-rotating rod.
- Compact, Lightweight.
- Pre-lubricated before shipment.
- Good repeatability accuracy.
- Compatible with external magnetic sensors.

Specification

Model	MEJQ	
Size	16	20
Positioning repeatability (mm)	±0.02	
Lead (mm)	1	2
Ball screw (ø)	4	6
Stroke (mm)	30 / 50 / 75 / 100	
Anti-rotation tolerance *1 (°)	±0.7	
Sensor switch	RDC(V), RQC(V) 	

With step motor		□25	□28	□35
Max. speed	SM (mm/s)	—	≤ 50	≤ 100
	BM (mm/s)	≤ 50	—	≤ 100
	OBM (mm/s)	≤ 50		
Rated load	Horizontal *2,3 (kg)	5	12	
	Vertical *2 (kg)	2	5	
Max. thrust *4 (N)		270	160	

*1. Do not apply radial loads or loads in directions other than the intended movement direction to the shaft.

*2. The rated load capacity varies depending on the moving speed. Please refer to the Speed-Load Graph.

*3. The rated horizontal load refers to a value when the shaft is free from radial and moment loads and is supported externally by a linear guide.

*4. Thrust and moving speed may vary depending on cable length, load, stroke and mounting conditions. Thrust tolerance: ±20%.

Order example

MEJQ — 20 L02 — 30 — BC L — CK10 03 N 015

Model

Size	Ball screw lead
16	L01 1 mm
20	L02 2 mm

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

Controller	Motor
CK10	SM
CM10 *	OBM
CM20 *	BM

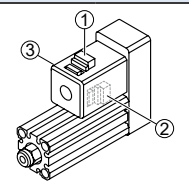
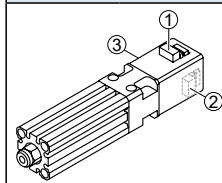
* Sensors are required for proper operation.

I/O type	I/O cable length
N NPN	015 1.5 m (Standard)
	03 3 m

* Not applicable to CM10.

* Not applicable to CM10.

Motor position
BC : Direct connection
BA : Turned



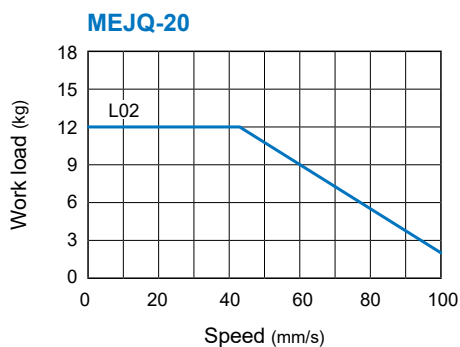
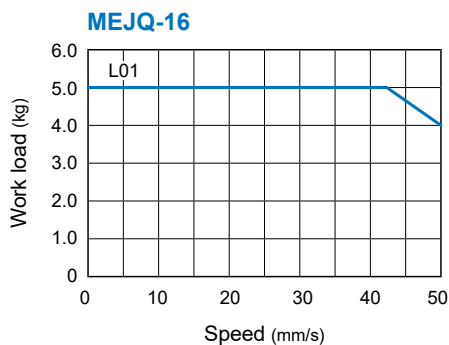
Wire direction
— ① Top
R ② Right
L ③ Left

Motor + Encoder cable
01 1 m (CM10/20 only)
015 1.5 m (CK10 only)
03 3 m (Standard)
05 5 m

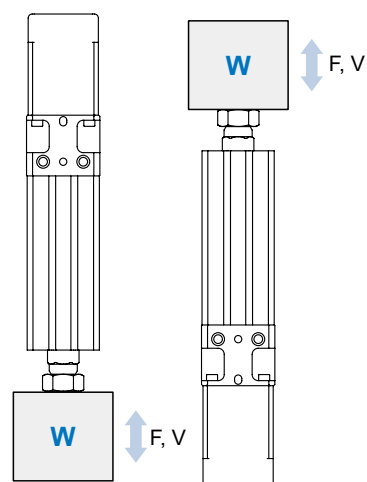
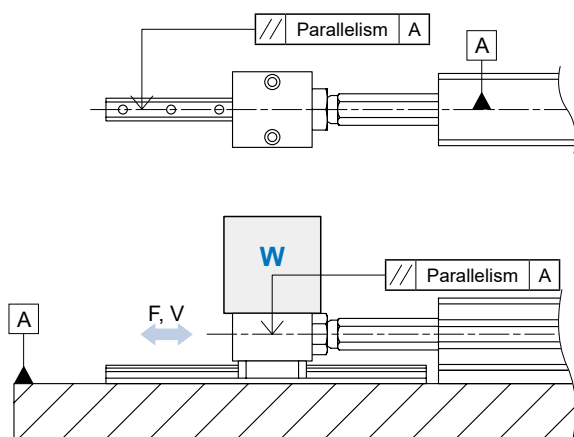
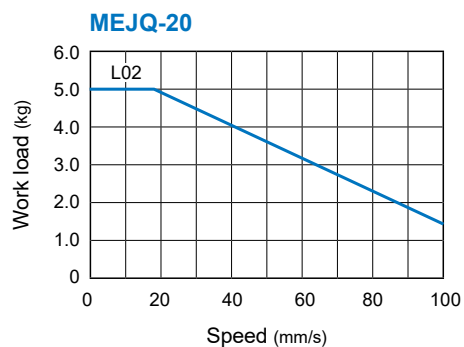
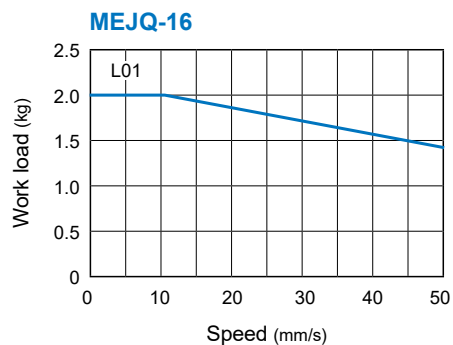
* Refer to the motor wiring direction for code ①~③.

Speed-load curve diagram

Horizontal



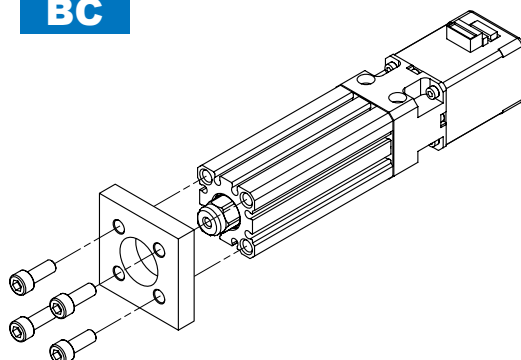
Vertical



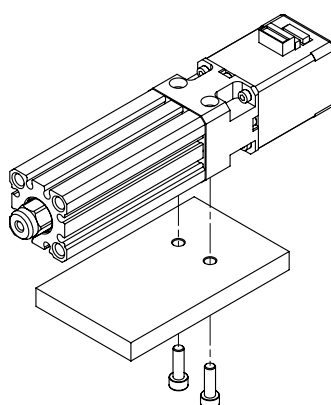
* Do not apply radial load to the rod.

Plate installation * The plates are prepared by the customers.

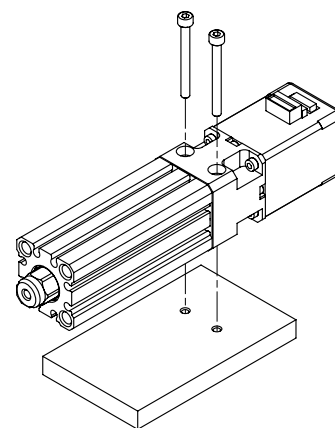
BC



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

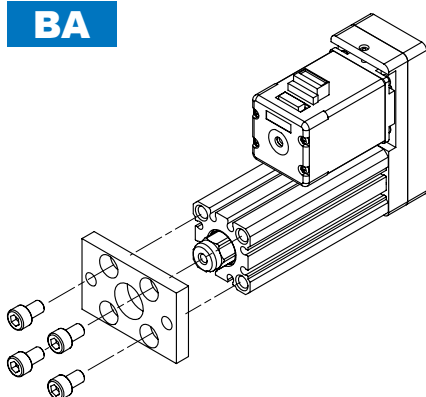


B The plate is positioned below, and bolts are mounted from below.

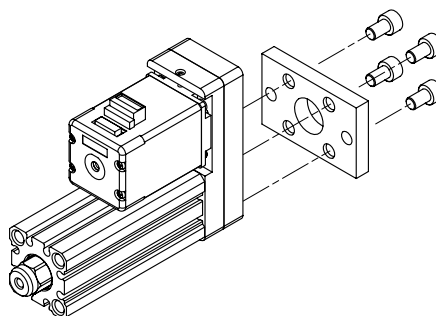


C The plate is positioned below, and bolts are mounted from above.

BA



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

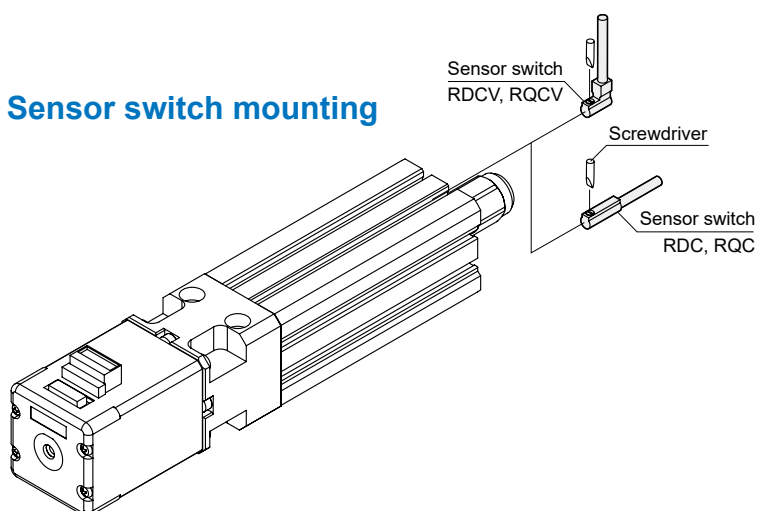


D The plate is positioned at the back, and bolts are mounted from the rear.

Bolt size

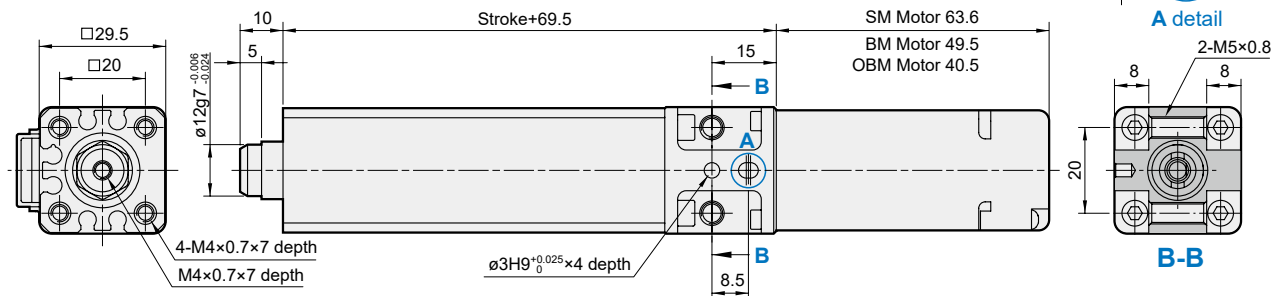
Installation method	Size	
	16	20
A, D	M4×0.7	M6×1.0
B	M5×0.8	M5×0.8
C	M4×0.7	M4×0.7

Sensor switch mounting

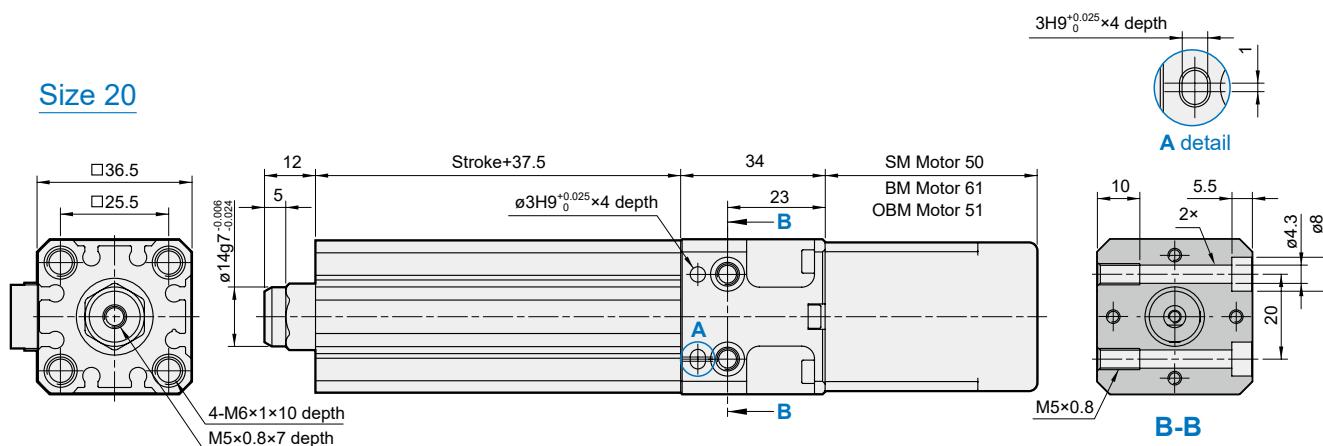


BC Motor direct connection

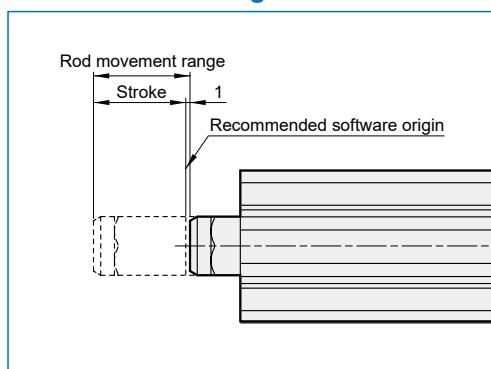
Size 16



Size 20



Rod movement range



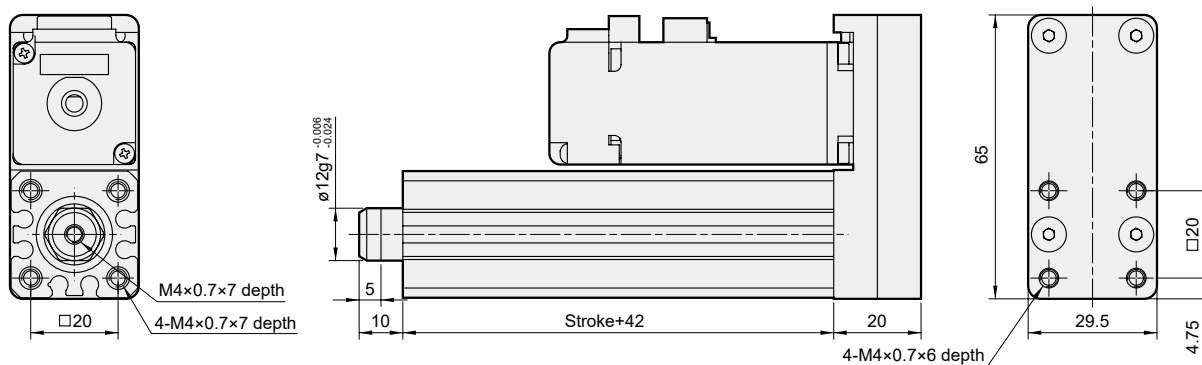
Weight

Unit: kg

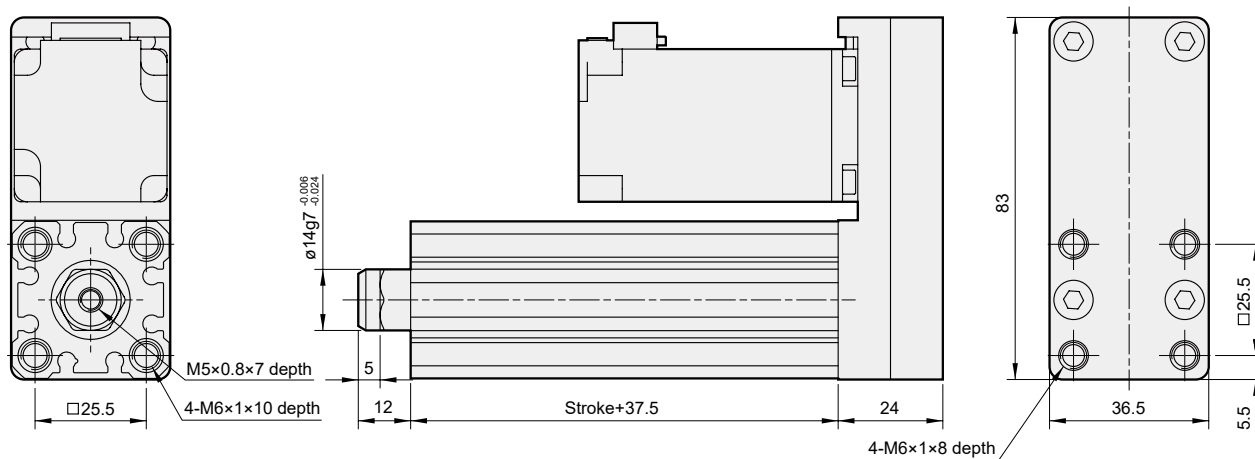
Stroke Size	SM motor				BM motor			
	30	50	75	100	30	50	75	100
16	0.42	0.46	0.50	0.54	0.35	0.39	0.43	0.47
20	0.50	0.56	0.62	0.69	0.59	0.65	0.71	0.78

BA Motor Turned

Size 16



Size 20



Weight

Unit: kg

Stroke Size	SM motor				BM motor			
	30	50	75	100	30	50	75	100
16	0.48	0.52	0.56	0.6	0.41	0.45	0.49	0.53
20	0.58	0.64	0.7	0.77	0.67	0.73	0.79	0.86