



Specification

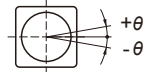
| Model | MEQG-5 | | | | |
|---------------------------------|-------------------|-----|-----|------|-----|
| Repeatability (mm) | ±0.01 | | | | |
| Ball screw lead (mm) | 2 | 5 | 10 | 20 | |
| Maximum speed (mm/s) (*1) | 100 | 250 | 500 | 1000 | |
| Maximum payload (*2) | Horizontal (kg) | 30 | 30 | 15 | 10 |
| | Vertical (kg) | 10 | 10 | 5 | 2.5 |
| Rated thrust (N) | 854 | 341 | 170 | 85 | |
| Stroke / pitch (mm) | 50~600 / 50 Pitch | | | | |
| Motor output (W) | 100 | | | | |
| Ball screw spec (mm) | C7ø12 | | | | |
| Coupling (mm) | 7×8 | | | | |
| Home sensor (Outside) | CS-6T (NPN) | | | | |
| Anti-rotating accuracy (θ) (*3) | ±0° | | | | |

*1. Acceleration and deceleration value is set 0.2 second.

*2. If payload is near maximum, it requires to collocate externally with auxiliary guideway for bearing radial load.

*3. Avoid using the electric actuator in such a way that rotational torque would be applied to the piston rod. This may cause deformation of the anti-rotating guide, abnormal responses of the auto switch, play in the internal guide or an increase in the sliding resistance.

Anti-rotating accuracy of rod



Order example

MEQG-5 — L05 — 100 — BC — M10B — C4 — 0001

Model

Spec.

Stroke

50~600 mm
50 mm pitch

Special order no.

| Ball screw brand | Ball screw lead | Motor position | Motor brand, power output, brakes | Home sensor | Limit sensor |
|-------------------------|-------------------------|---------------------|--|------------------------------|-------------------|
| L T-Standard MIT | 02 2 mm | BC Exposed | SERVO motor 10 100W B | C Out side | 3 Out side |
| 05 5 mm | BM On lower side | M Mitsubishi | | D Opposite motor side | 4 2 Pcs |
| 10 10 mm | BR On right side | P Panasonic | | No sensor | No sensor |
| 20 20 mm | BL On left side | Y Yaskawa | | E None | 5 None |
| | | | T Delta | | |

* Need not show **B** with no brake.

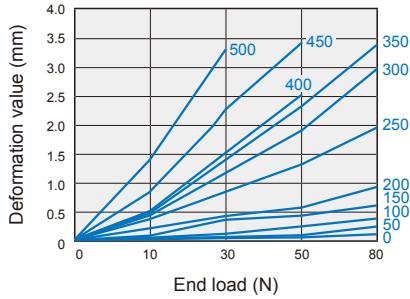
MEQG-5 Performance charts



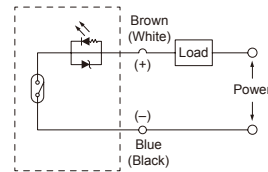
ROD ELECTRIC CYLINDER - BALL SCREW DRIVE (WITHOUT MOTOR)

Shaft output deformation value

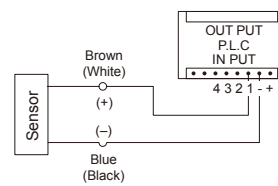
This form is only reference values.



Sensor layout



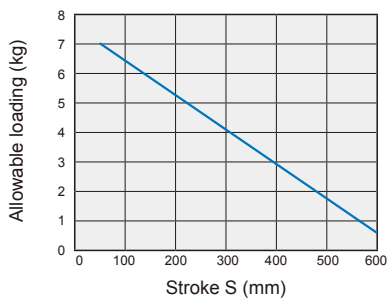
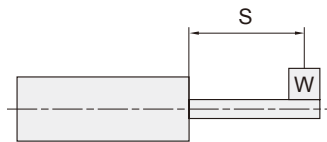
General load:
Such as relay or other resistive load.



Programmable controller connection diagram.

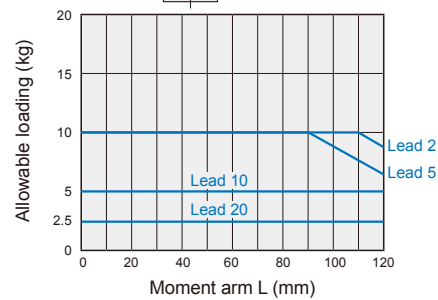
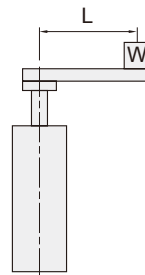
Allowable installation load

No external auxiliary mechanism, extension distance of load = 0



Load in vertical installation

Calculation conditions: 3000 rpm/min, acceleration and deceleration: 0.2s



Standard servo motors

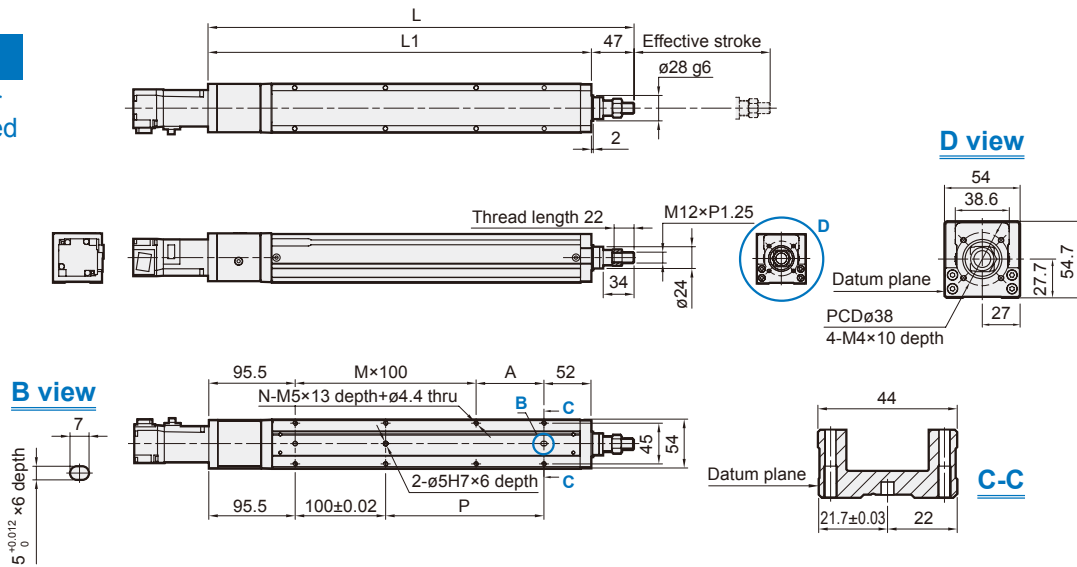
| Brand | Mark | Brake | Watt | AC-Voltage | Motor model | Compatible driver model |
|------------|------|---------------------------|------|------------|---------------|-------------------------|
| Mitsubishi | M | No brake(Horizontal type) | 100 | 220 | HG-KR13 | MR-J4-10A |
| | | With brake(Vertical type) | 100 | 220 | HG-KR13B | MR-J4-10A |
| Panasonic | P | No brake(Horizontal type) | 100 | 220 | MSMD012G1U | MADHT1505 |
| | | With brake(Vertical type) | 100 | 220 | MSMD012G1V | MADHT1505 |
| Delta | T | No brake(Horizontal type) | 100 | 220 | ECMA-C20401ES | ASD-B20221-B |
| | | With brake(Vertical type) | 100 | 220 | ECMA-C20401FS | ASD-B20221-B |

MEQG-5 Dimensions

ROD ELECTRIC CYLINDER - BALL SCREW DRIVE (WITHOUT MOTOR)



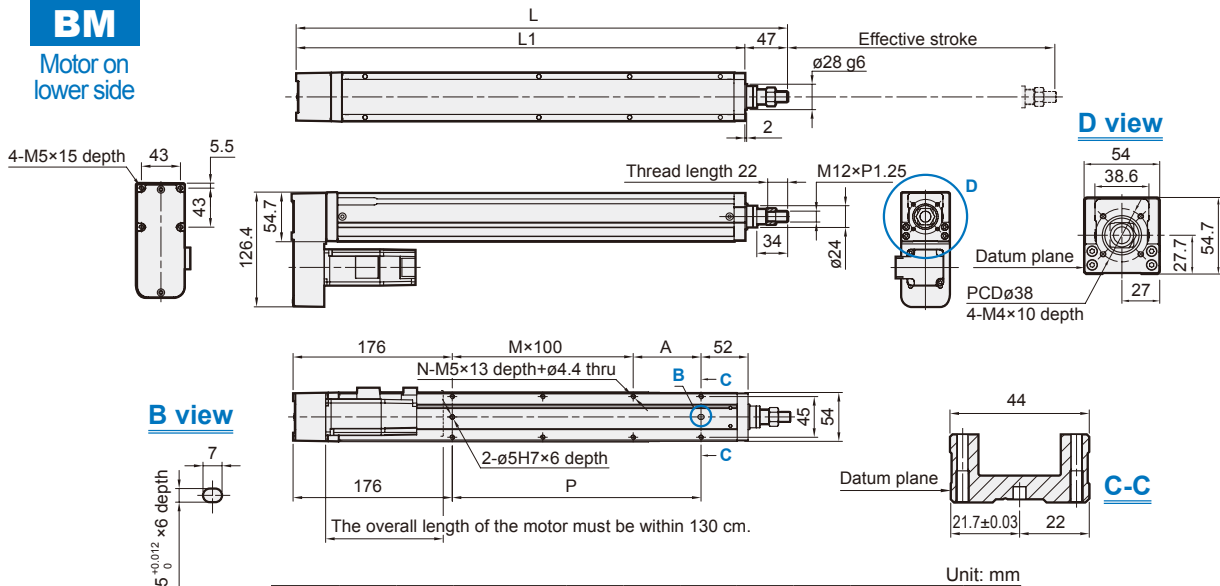
BC
Motor exposed



Unit: mm

| Stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L | 319.5 | 369.5 | 419.5 | 469.5 | 519.5 | 569.5 | 619.5 | 669.5 | 719.5 | 769.5 | 819.5 | 869.5 |
| L1 | 272.5 | 322.5 | 372.5 | 422.5 | 472.5 | 522.5 | 572.5 | 622.5 | 672.5 | 722.5 | 772.5 | 822.5 |
| A | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 |
| M | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 |
| N | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 |
| P | 25 | 75 | 125 | 175 | 225 | 275 | 325 | 375 | 425 | 475 | 525 | 575 |
| KG | 2.17 | 2.36 | 2.56 | 2.76 | 2.95 | 3.15 | 3.35 | 3.54 | 3.74 | 3.94 | 4.13 | 4.33 |

BM
Motor on lower side



Unit: mm

| Stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 |
|-----------|------|------|------|------|------|------|------|------|------|------|-----|-----|
| L | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 |
| L1 | 253 | 303 | 353 | 403 | 453 | 503 | 553 | 603 | 653 | 703 | 753 | 803 |
| A | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 |
| M | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 |
| N | 4 | 4 | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 |
| P | 25 | 75 | 125 | 175 | 225 | 275 | 325 | 375 | 425 | 475 | 525 | 575 |
| KG | 2.34 | 2.53 | 2.73 | 2.93 | 3.12 | 3.32 | 3.52 | 3.71 | 3.91 | 4.11 | 4.3 | 4.5 |

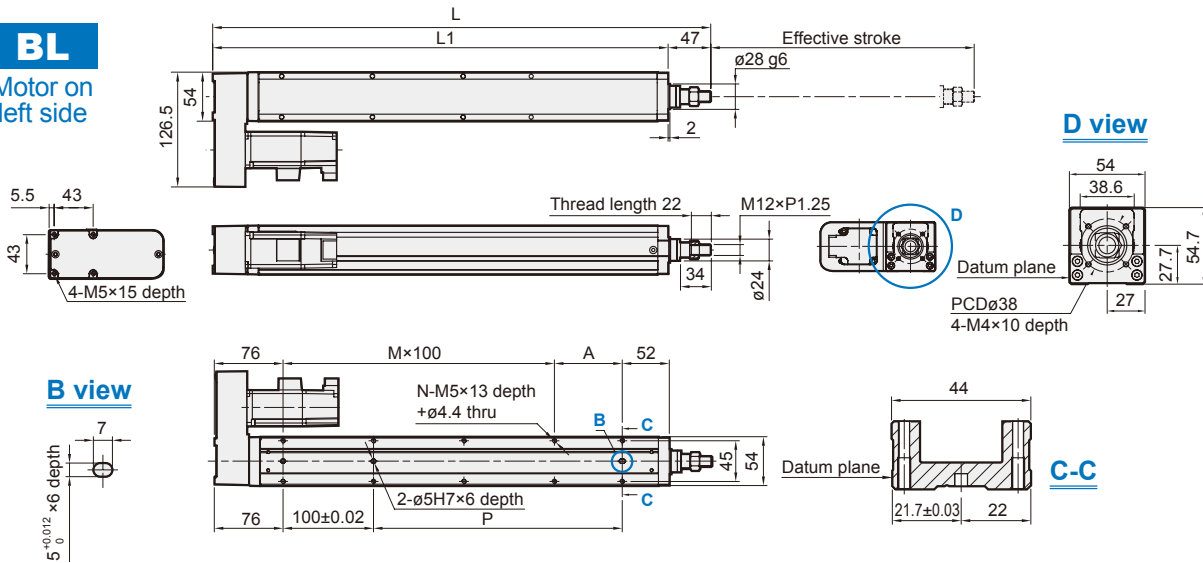
* When motor with brake assembled on lower side, or the total length over than spec limit, it may not use standard pinhole. Please contact us if you need more information and requirement.

MEQG-5 Dimensions

ROD ELECTRIC CYLINDER - BALL SCREW DRIVE (WITHOUT MOTOR)



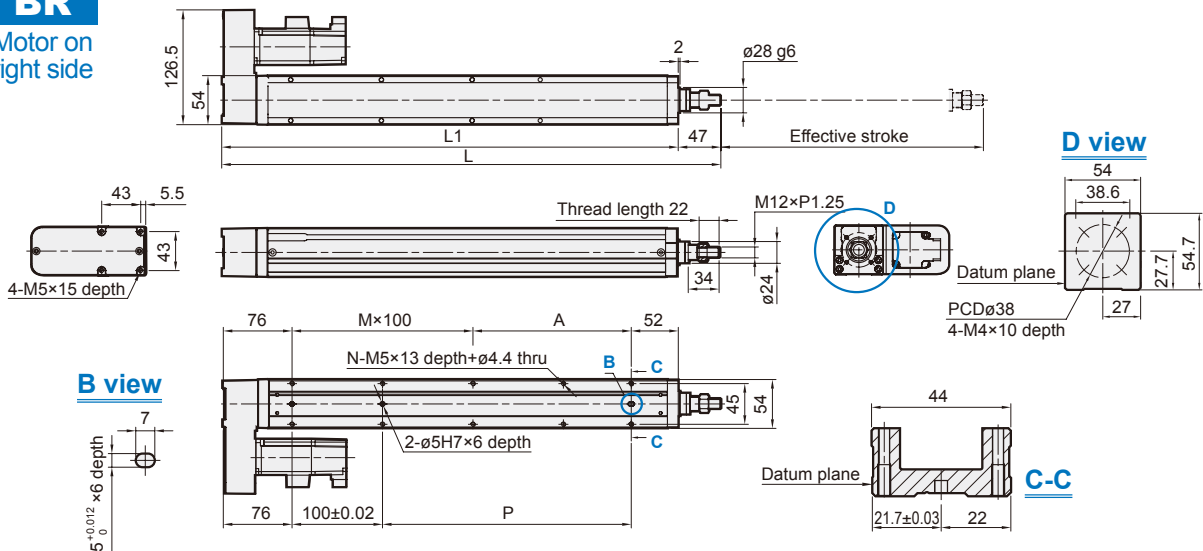
BL
Motor on left side



Unit: mm

| Stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 |
|--------|------|------|------|------|------|------|------|------|------|------|-----|-----|
| L | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 |
| L1 | 253 | 303 | 353 | 403 | 453 | 503 | 553 | 603 | 653 | 703 | 753 | 803 |
| A | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 |
| M | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 |
| N | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 |
| P | 25 | 75 | 125 | 175 | 225 | 275 | 325 | 375 | 425 | 475 | 525 | 575 |
| KG | 2.34 | 2.53 | 2.73 | 2.93 | 3.12 | 3.32 | 3.52 | 3.71 | 3.91 | 4.11 | 4.3 | 4.5 |

BR
Motor on right side



Unit: mm

| Stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 |
|--------|------|------|------|------|------|------|------|------|------|------|-----|-----|
| L | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 |
| L1 | 253 | 303 | 353 | 403 | 453 | 503 | 553 | 603 | 653 | 703 | 753 | 803 |
| A | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 |
| M | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 |
| N | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 |
| P | 25 | 75 | 125 | 175 | 225 | 275 | 325 | 375 | 425 | 475 | 525 | 575 |
| KG | 2.34 | 2.53 | 2.73 | 2.93 | 3.12 | 3.32 | 3.52 | 3.71 | 3.91 | 4.11 | 4.3 | 4.5 |