

MEQG-5 series

ROD TYPE ELECTRIC CYLINDER (WITHOUT MOTOR)



Mindman



Specification

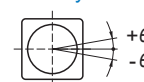
Model	MEQG-5			
Positioning repeatability (mm)	±0.01			
Ball screw lead (mm)	2	5	10	20
Maximum speed (*1) (mm/s)	100	250	500	1000
Maximum payload (*2)	Horizontal (kg)	30	30	15
	Vertical (kg)	10	10	5
Rated thrust (N)	854	341	170	85
Stroke / pitch (mm)	50~600 / 50 Pitch			
Motor output (W)	100			
Ball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

*1.Acceleration and deacceleration 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 — M10 — C4

Model

Size

Stroke

50~600 mm
50 mm pitch

Ball screw lead		Motor position		Motor brand		Flange face		Home sensor		Limit sensor	
L02	2 mm	BC	Direct connection	M	Mitsubishi	10	100W	Out side		Out side	
L05	5 mm	BM	Lower side		Yaskawa			C	Motor side	3	1 Pc
L10	10 mm	BR	Right side		Delta			D	Opposite motor side	4	2 Pcs
L20	20 mm	BL	Left side	P	Panasonic			No sensor		No sensor	
								E	None	5	None

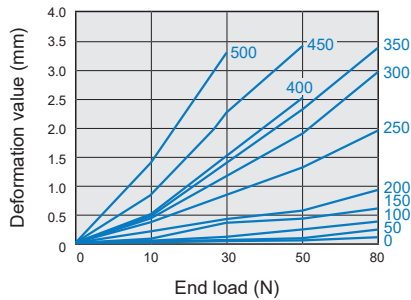
MEQG-5 Performance charts

ROD TYPE ELECTRIC CYLINDER (WITHOUT MOTOR)

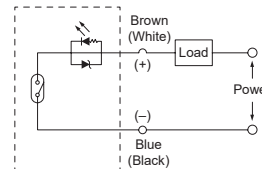


Shaft output deformation value

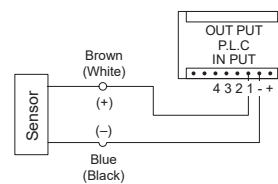
This form is only reference values.



Sensor layout



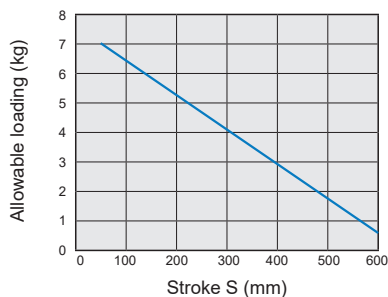
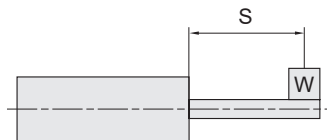
General load:
Such as relay or other
resistive load.



Programmable controller
connection diagram.

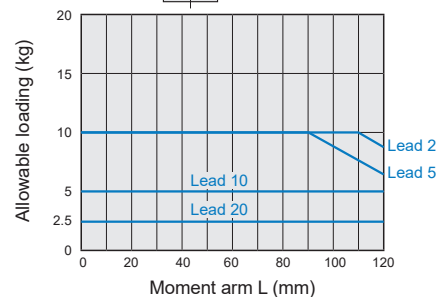
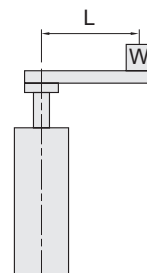
Allowable installation load

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	Power output	Motor model (Without brake)	Motor model (With brake)	Motor rod dia -shaft length (mm)	Centring collar diameter (mm)	Centring collar depth (mm)	Motor mount P.C.D (mm)	Mounting port (mm)
Mitsubishi	M	100W	HG-KN13J	HG-KN13BJ	ø8-25	ø30	2.5	ø46	2-ø4.5
Yaskawa		100W	SGM7J-01A7A21	SGM7J-01A7A2C	ø8-25	ø30	2.5	ø46	2-ø4.3
Delta		100W	ECMA-C20401ES	ECMA-C20401FS	ø8-25	ø30	2.5	ø46	2-ø4.5
Panasonic	P	100W	MSMF012L1U2M	MSMF012L1V2M	ø8-25	ø30	3	ø45	4-ø3.4

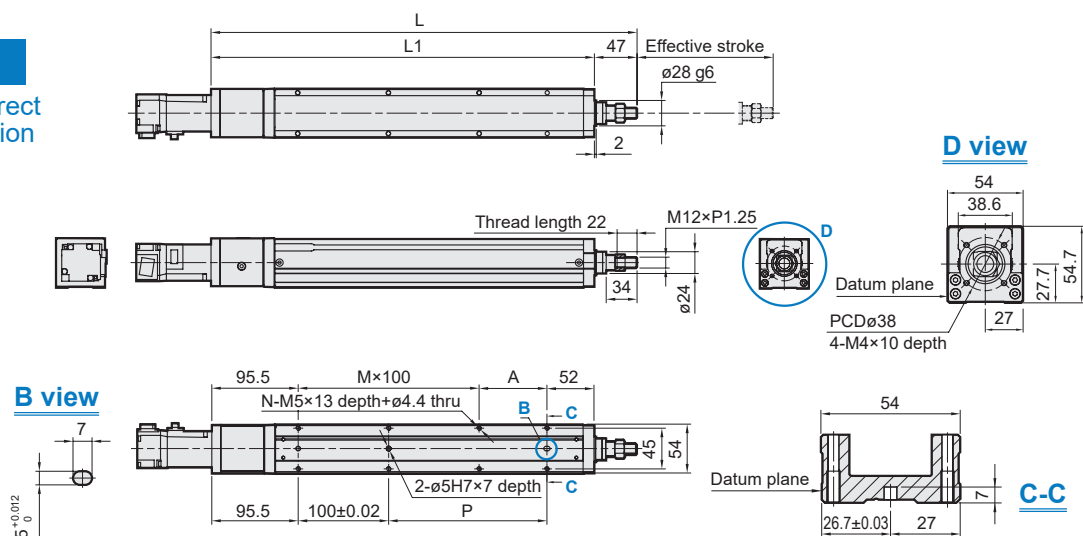
MEQG-5 Dimensions

ROD TYPE ELECTRIC CYLINDER (WITHOUT MOTOR)



BC

Motor direct connection

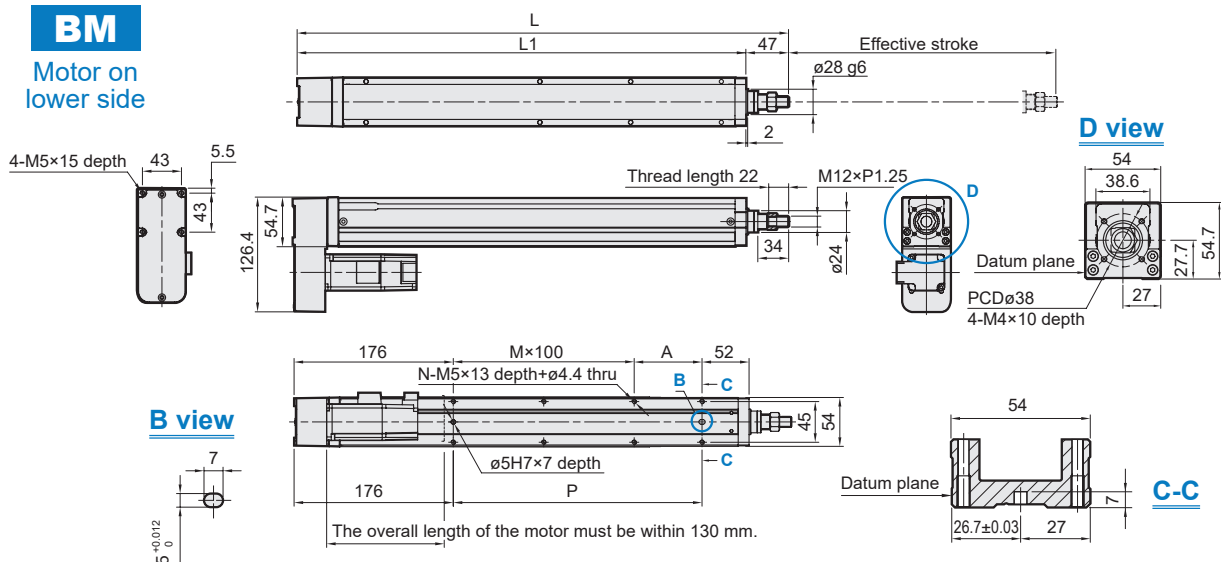


Unit: mm

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.

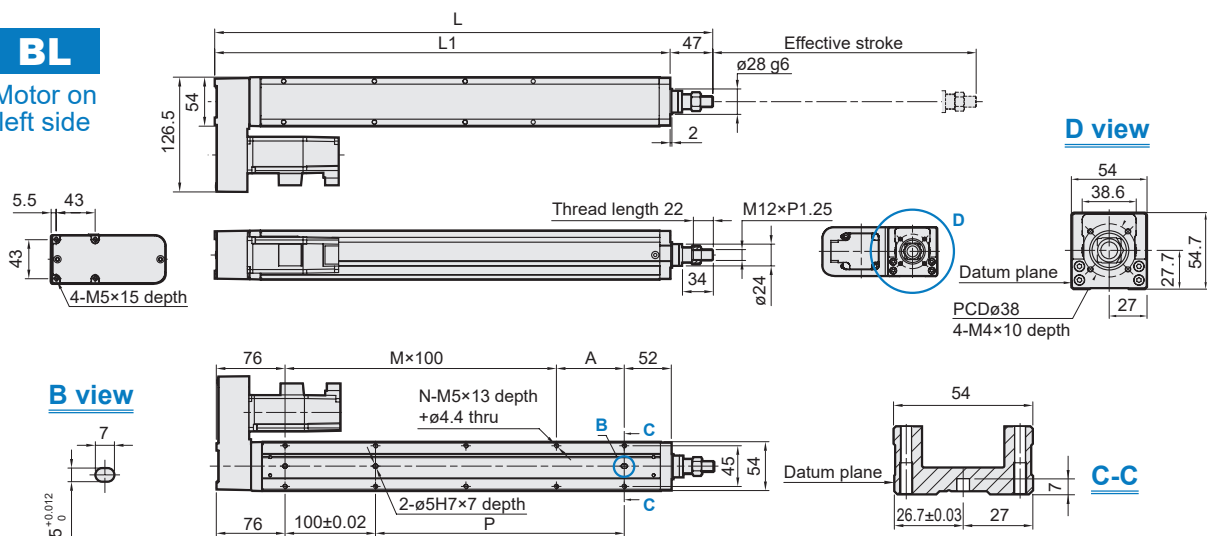
MEQG-5 Dimensions

ROD TYPE ELECTRIC CYLINDER (WITHOUT MOTOR)



BL

Motor on left side

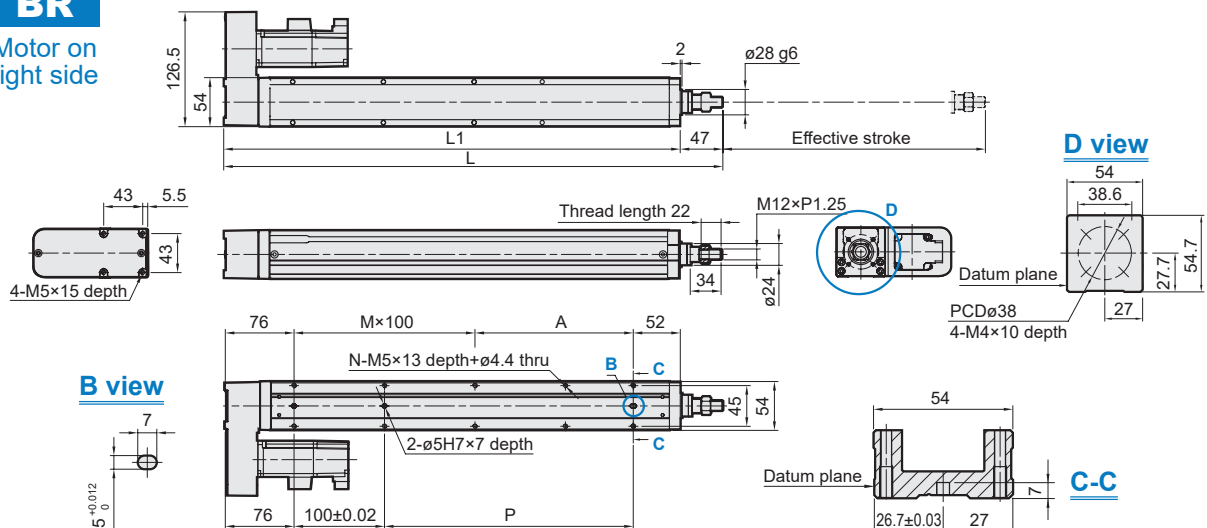


Unit: mm

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