MEQG-5 series

ROD TYPE ELECTRIC CYLINDER (WITHOUT MOTOR)

mindman

Selection table
Applications
Inner structure
Measuring tools
Reference data
Motor selection



Specification

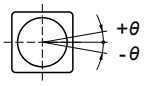
Model			MEQG-5			
Positioning repeatability		(mm)	±0.01			
Ball screw lead		(mm)	2	5	10	20
Maximum speed (*1)		(mm/s)	100	250	500	1000
Rated load (*2)	Horizontal	(kg)	30	30	15	10
	Vertical	(kg)	10	10	5	2.5
Max. thrust		(N)	854	341	170	85
Stroke / pitch		(mm)	50~600 / 50 Pitch			
Motor output		(W)	100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

*1. Acceleration and deacceleration values are set to 0.2 second.

*2. If the load is near maximum, external guideway for radial load is required.

*3. Please avoid applying axial tarque on the anti-rotating guide.

Anti-rotating accuracy of rod



Order example

MEQG-5 — L05 — 100 — BC — M10 — C4

Model MEQG-5

Size L05

Stroke 100

50~600 mm
50 mm pitch

Ball screw lead

L02	2 mm
L05	5 mm
L10	10 mm
L20	20 mm

Motor position

BC	Direct connection
BM	Lower side
BR	Right side
BL	Left side

Flange (For motor installation) — BC

Applicable motor brand (*)		Dimensions	
M	Mitsubishi	10	100W servo
	Yaskawa		
	Delta		
P	Panasonic		

Home sensor — M10

Out side	
C	Motor side
D	Opposite motor side
No sensor	
E	None

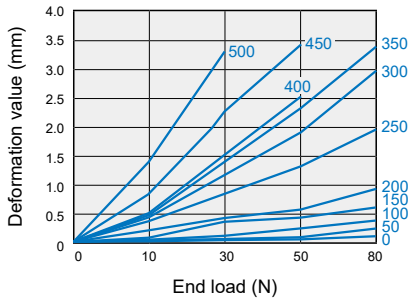
Limit sensor — C4

Out side	
3	1 Pc
4	2 Pcs
No sensor	
5	None

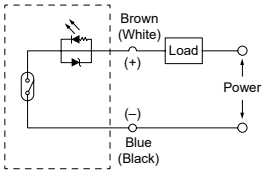
* Motor not included. Please refer to the "Motor Selection Table".

Shaft output deformation value

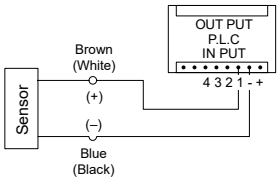
This form is only reference values.



Sensor layout



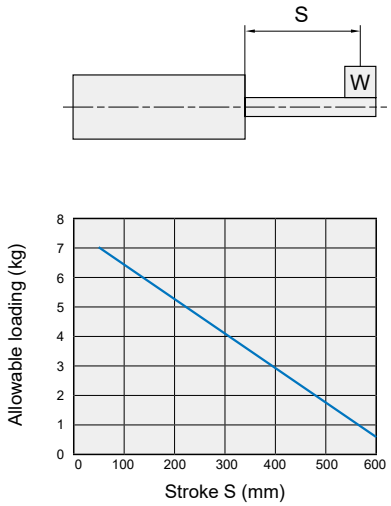
General load:
Such as relay or other resistive load.



Programmable controller connection diagram.

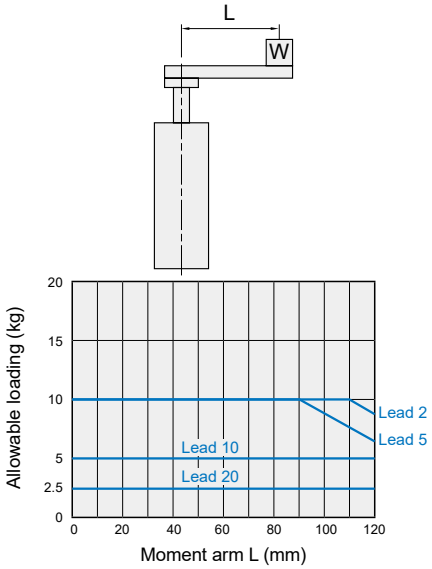
Allowable installation load

No external auxiliary mechanism, extension distance of load = 0



Load in vertical installation

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

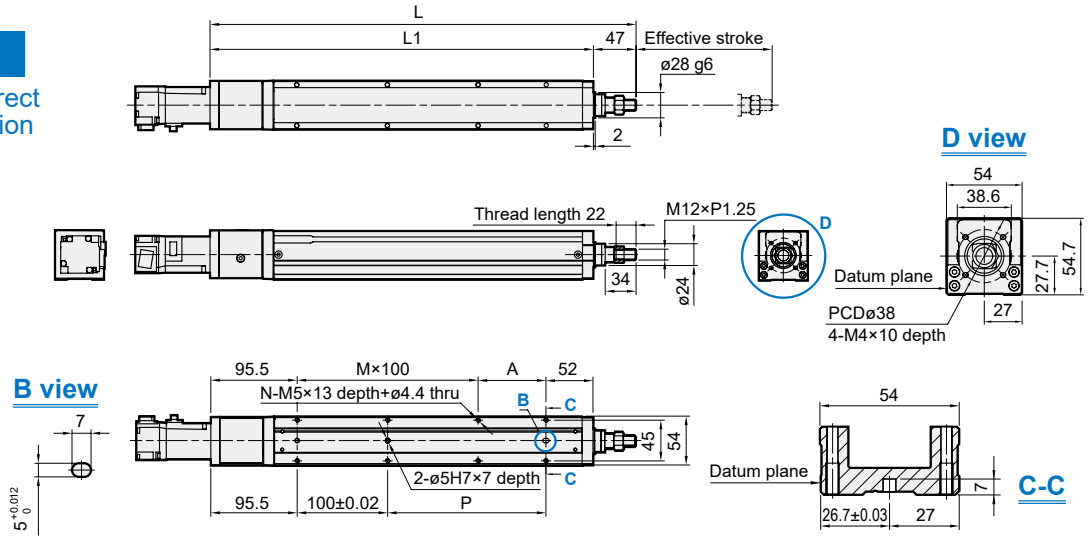


MEQG-5 Dimensions

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BC

Motor direct connection

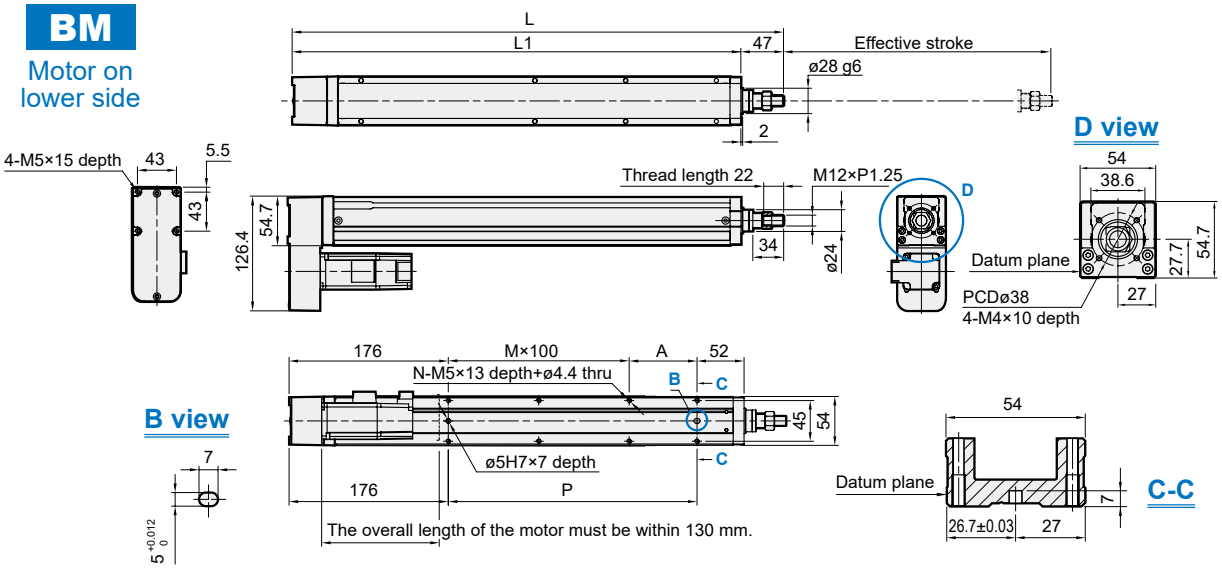


Unit: mm

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

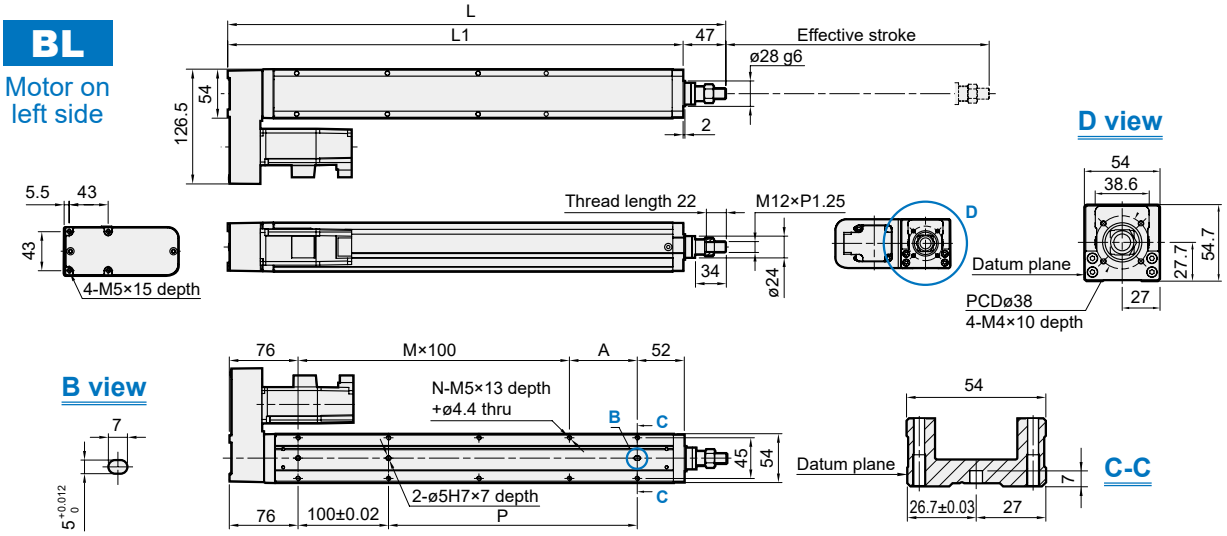
* When motor with brake assembled on lower side, or the total length over than spec limit, it may not use standard pinhole. Please contact us if you need more information and requirement.

MEQG-5 Dimensions

ROD TYPE ELECTRIC CYLINDER (WITHOUT MOTOR)

BL

Motor on left side

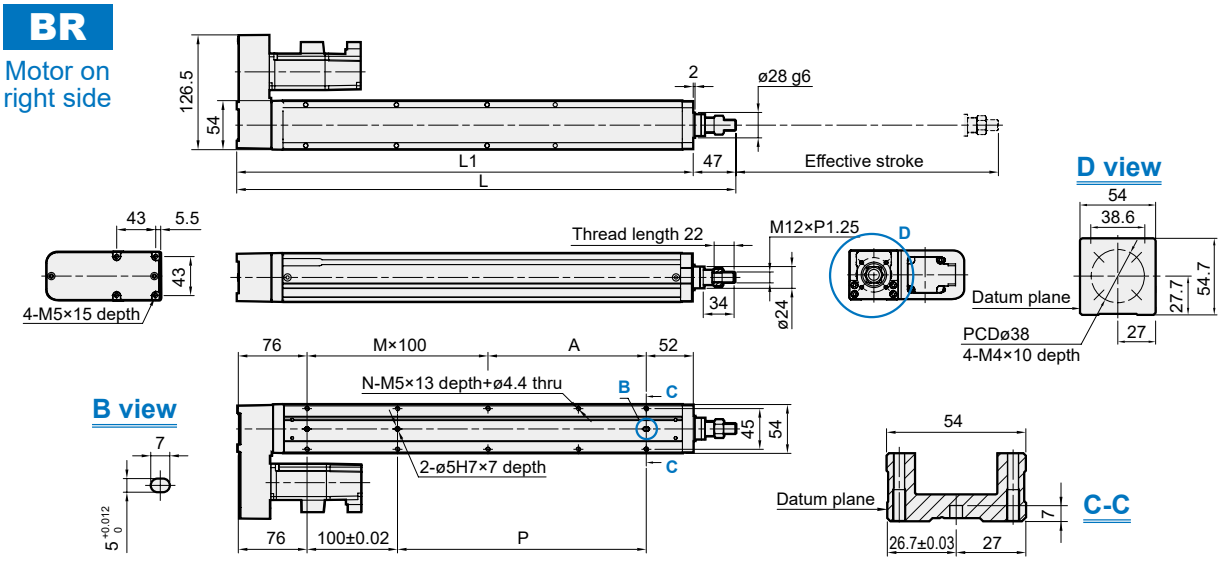


Unit: mm

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