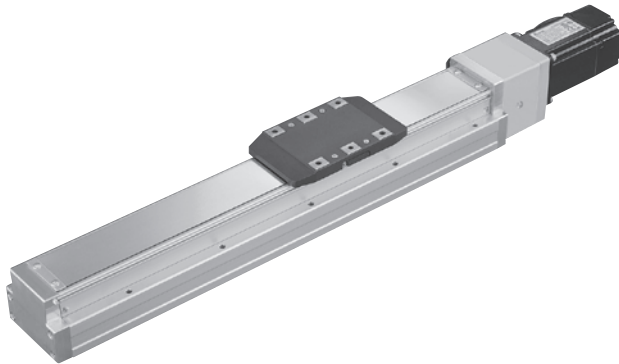


METG-8 series

SLIDER ELECTRIC CYLINDER – BUILT-IN GUIDEWAY (WITHOUT MOTOR)



Mindman



Specification

Model	METG-8		
Positioning repeatability (mm)	±0.005		
Ball screw lead (mm)	5	10	20
Max. speed (*1) (mm/s)	250	500	1000
AC servo motor (W)	200W, 400W		
Max. payload	Horizontal (kg)	50	30
	Vertical (kg)	15	8
Rated thrust (*2) (N)	683 (1388)	341 (694)	174 (347)
Stroke (*3) (mm)	50~1100 / 50 pitch		
Ball screw (mm)	C7Ø16		
Coupling (mm)	10×14/11 (*4)		
Home sensor	EE-SX674 (NPN)		

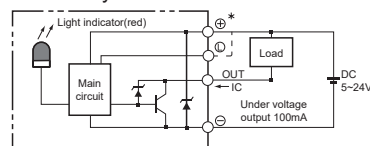
*1. Acceleration and deceleration value is set 0.2 second.

*2. () The value for power output 400W.

*3. When the stroke is over 750mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstance.

*4. Motor 200W shaft diameter: Panasonic: 11mm, Other: 14 mm.

Sensor layout



Order example

METG – 8 – L10 – 100 – BC – M20 – C4

Model

Size

Stroke

50~1100 mm
50 mm pitch

Ball screw lead	
L05	5 mm
L10	10 mm
L20	20 mm

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

Motor brand, power output			
SERVO motor			
M	Mitsubishi	20 40	200W 400W
	Yaskawa		
	Delta		
P	Panasonic		

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

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

* When the stroke is 50mm, the sensor installation has the following restrictions.

1. Home sensor and limit sensor has to be installed on the different side of body.
2. Both sides of slider need to install the sensor trigger device.

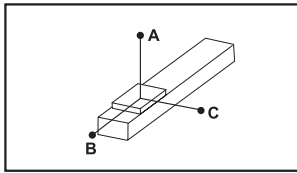
METG-8 Performance charts



SLIDER ELECTRIC CYLINDER – BUILT-IN GUIDEWAY (WITHOUT MOTOR)

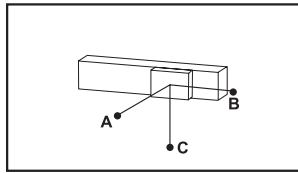
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Allowable overhang



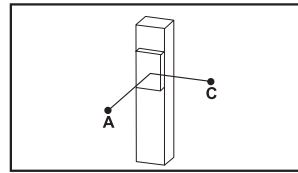
Unit: mm

Horizontal installation		A	B	C
Lead 5	20kg	1560	153	237
	35kg	890	81	126
	50kg	550	53	82
Lead 10	10kg	1730	286	412
	20kg	839	136	196
	30kg	541	86	124
Lead 20	6kg	1213	403	493
	9kg	800	264	323
	18kg	592	194	238



Unit: mm

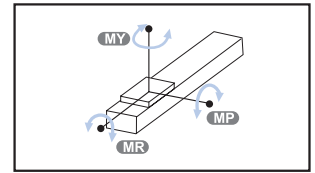
Wall installation		A	B	C
Lead 5	20kg	214	153	1435
	35kg	113	81	845
	50kg	74	53	506
Lead 10	10kg	370	286	1400
	20kg	176	136	800
	30kg	112	86	495
Lead 20	6kg	444	403	760
	9kg	292	264	277
	18kg	214	194	544



Unit: mm

Vertical installation		A	C
Lead 5	10kg	331	331
	15kg	220	220
	–	–	–
Lead 10	5kg	589	589
	8kg	368	368
	–	–	–
Lead 20	3kg	935	935
	–	–	–
	–	–	–

Static loading moment



Unit: N.m

MY	318
MP	318
MR	626

- The torque value in the chart indicate the center of gravity.
- Operation life is 10000km when the product is using under the specified conditions.
- Data information is not for ceiling-mount inverse use.
Contact us for the details if you want to apply ceiling-mount inverse usage.

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	200W	HG-KN23J	HG-KN23BJ	ø14-30	ø50	3	ø70	4-ø5.8
		400W	HG-KN43J	HG-KN43BJ	ø14-30	ø50	3	ø70	4-ø5.8
Yaskawa		200W	SGM7J-02A7A21	SGM7J-02A7A2C	ø14-30	ø50	3	ø70	4-ø5.5
		400W	SGM7J-04A7A21	SGM7J-04A7A2C	ø14-30	ø50	3	ø70	4-ø5.5
Delta		200W	ECMA-C20602ES	ECMA-C20602FS	ø14-30	ø50	3	ø70	4-ø5.5
		400W	ECMA-C20604ES	ECMA-C20604FS	ø14-30	ø50	3	ø70	4-ø5.5
Panasonic	P	200W	MHMF022L1U2M	MHMF022L1V2M	ø11-30	ø50	3	ø70	4-ø4.5
		400W	MHMF042L1U2M	MHMF042L1V2M	ø11-30	ø50	3	ø70	4-ø4.5

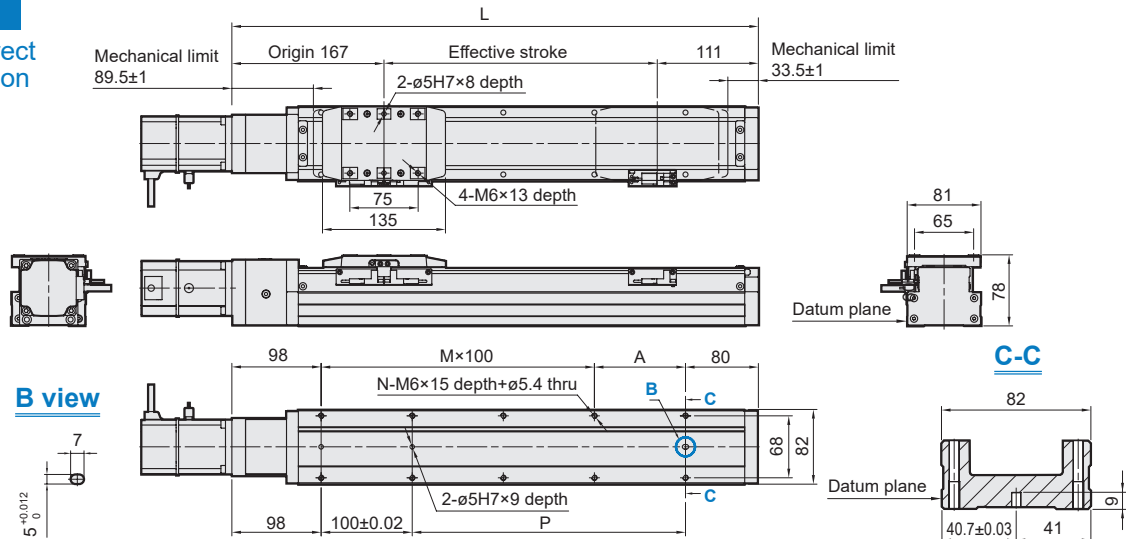
METG-8 Dimensions

SLIDER ELECTRIC CYLINDER – BUILT-IN GUIDEWAY (WITHOUT MOTOR)



BC

Motor direct connection

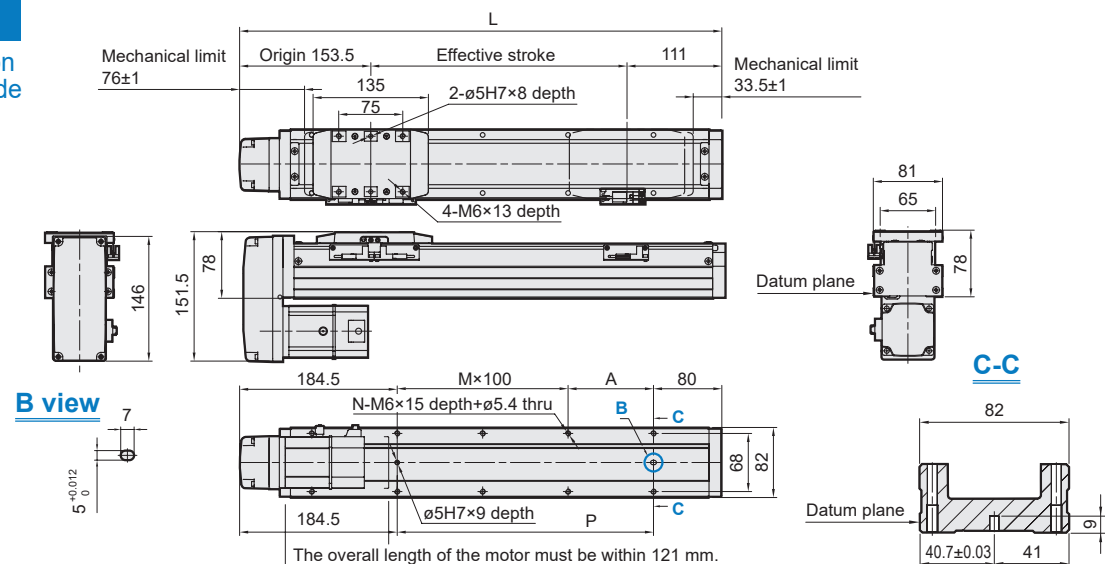


Unit: mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	328	378	428	478	528	578	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328	1378
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
KG	5.18	5.54	5.91	6.27	6.64	7	7.37	7.73	8.1	8.46	8.83	9.19	9.56	9.92	10.29	10.65	11.02	11.38	11.75	12.11	12.48	12.85

BM

Motor on lower side

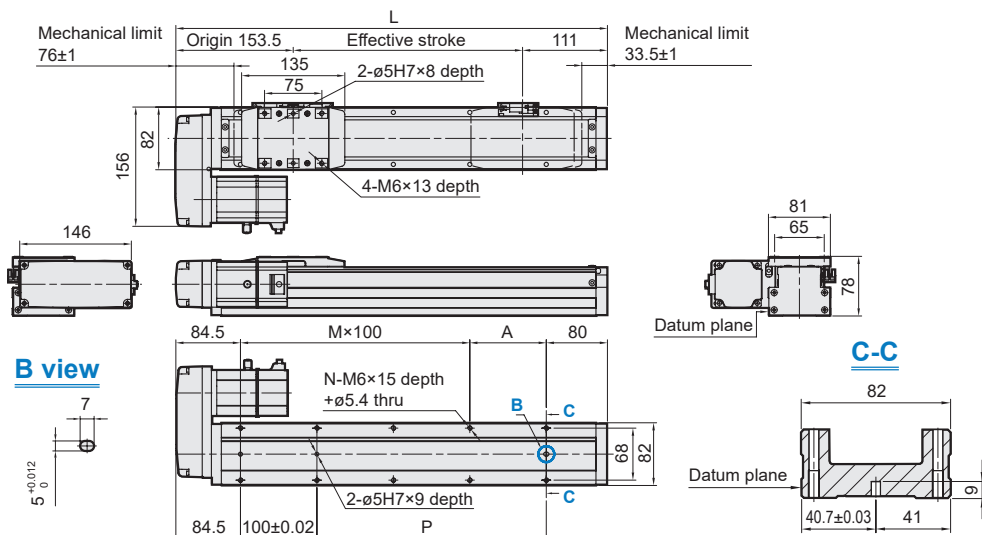


Unit: mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	4	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
KG	5.19	5.6	6.12	6.64	7.16	7.68	8.2	8.72	9.24	9.76	10.28	10.8	11.32	11.84	12.36	12.88	13.4	13.92	14.44	14.96	15.48	16

* When motor with brake assembled on down 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.

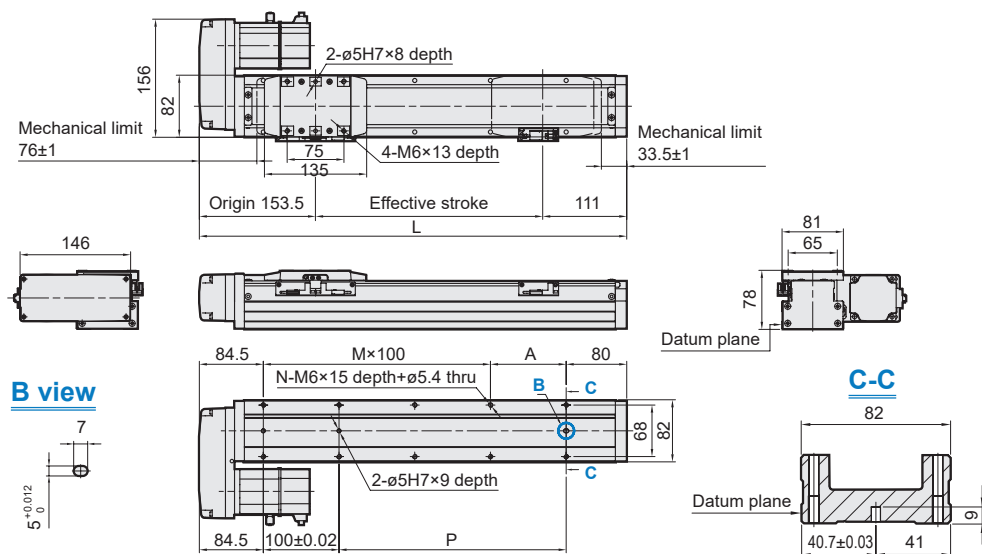
Motor on
left side



Unit: mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
KG	5.19	5.6	6.12	6.64	7.16	7.68	8.2	8.72	9.24	9.76	10.28	10.8	11.32	11.84	12.36	12.88	13.4	13.92	14.44	14.96	15.48	16

Motor on right side



Unit: mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
KG	5.19	5.6	6.12	6.64	7.16	7.68	8.2	8.72	9.24	9.76	10.28	10.8	11.32	11.84	12.36	12.88	13.4	13.92	14.44	14.96	15.48	16