METG2-5 series

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

mindman

Selection table
Applications
Inner structure
Measuring tools
Reference
Motor selection
Caution
(Read before installing)



Specification

Model			METG2-5		
Positioning repeatability		(mm)	±0.01		
Ball screw lead		(mm)	5	10	20
Max. speed (*1)		(mm/s)	250	500	1000
AC servo motor		(W)	100W		
Rated load	Horizontal	(kg)	30	15	10
	Vertical	(kg)	10	5	2.5
Stroke (*2)		(mm)	50~800 / 50 pitch		
Ball screw		(mm)	C7ø12		
Slot-type photomicro sensor			PU-Y974(P)		

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

*2. Reduce the speed when the stroke exceeds 600 mm due to resmance.

Order example

METG2 – 5 – L05 – 100 – BC – M10 – C4

Model | Size | Stroke | Ball screw lead | Motor position | Flange (For motor installation) | Home sensor (*2) | Limit sensor

Stroke

50~800 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

Flange (For motor installation)

Applicable motor brand (*1)		Power output	
M	Mitsubishi	10	100W servo
	Yaskawa		
	Delta		
P	Panasonic		

Home sensor (*2)

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

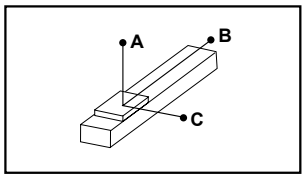
Limit sensor

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

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

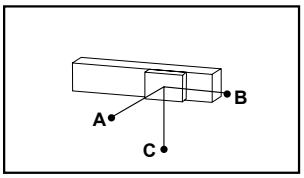
*2. When the stroke is 50mm, the sensor installation has the following restricitions.
1. Home sensor and limit sensor has to be installed on the different side of body.
2. Install sensor trigger on both side.

Allowable overhang



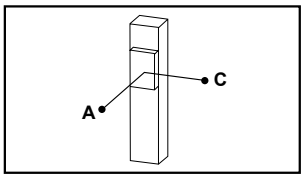
Unit: mm

Horizontal installation		A	B	C
Lead 5	10kg	650	75	100
	20kg	440	32	45
	30kg	270	19	25
Lead 10	5kg	600	145	185
	10kg	370	70	85
	15kg	250	42	52
Lead 20	5kg	320	120	130
	8kg	220	70	80
	10kg	175	55	60



Unit: mm

Wall installation		A	B	C
Lead 5	10kg	100	75	650
	20kg	45	32	420
	30kg	25	19	260
Lead 10	5kg	180	145	600
	10kg	85	68	370
	15kg	52	42	250
Lead 20	5kg	130	120	320
	8kg	75	70	220
	10kg	60	55	170



Unit: mm

Vertical installation		A	C
Lead 5	6kg	145	145
	8kg	110	110
	10kg	90	90
Lead 10	1kg	800	800
	3kg	260	260
	5kg	155	155
Lead 20	1kg	600	600
	2kg	300	300
	2.5kg	250	250

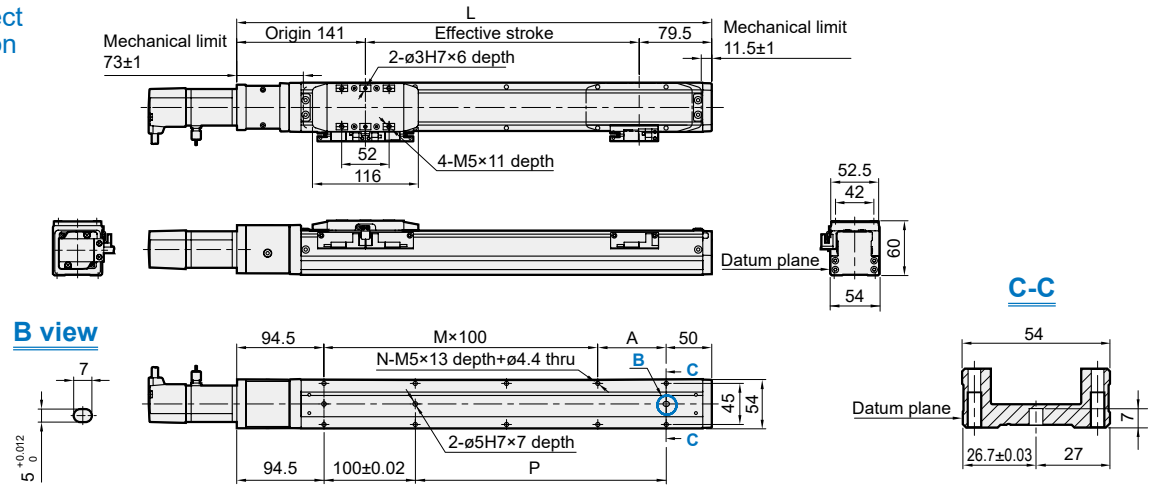
- The upside - down crane cannot be used according to the standard specification, please contact us if there is any demand.

METG2-5 Dimensions

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

BC

Motor direct connection

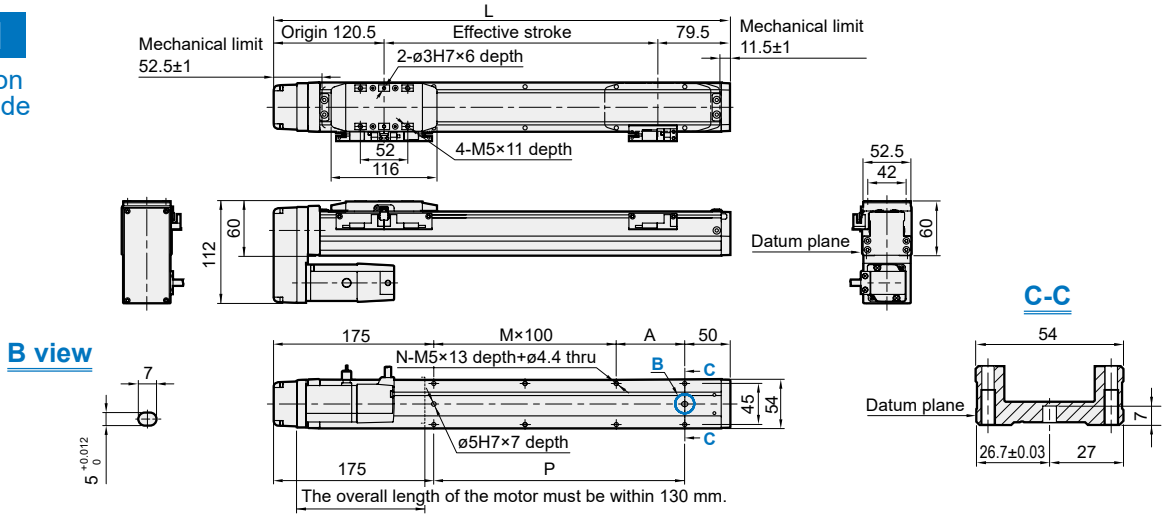


Unit: mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	269.5	319.5	369.5	419.5	469.5	519.5	569.5	619.5	669.5	719.5	769.5	819.5	869.5	919.5	969.5	1019.5
A	25	75	25	75	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	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
Weight (kg)	2.2	2.4	2.6	2.8	3	3.2	3.4	3.6	3.8	4	4.2	4.4	4.6	4.8	5	5.2

BM

Motor on lower side



Unit: mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	25	75	25	75	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	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
Weight (kg)	2.4	2.6	2.8	3	3.2	3.4	3.6	3.8	4	4.2	4.4	4.6	4.8	5	5.2	5.4

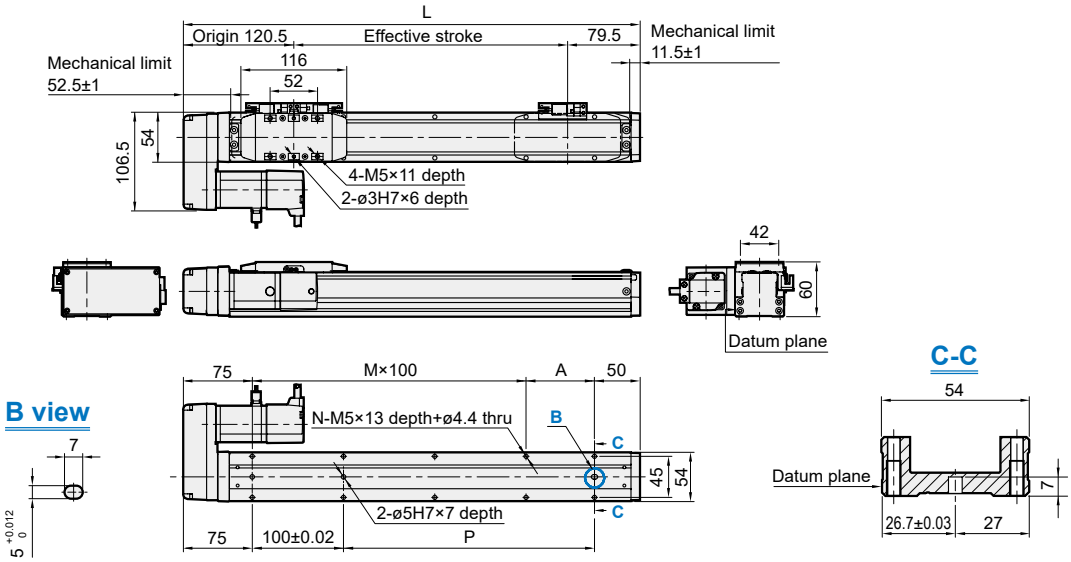
* When motor with brake assembled on down side, or the total length over than spec limit, it may not use standard pinhole. Please contact us if you need more information and requirement.

METG2-5 Dimensions

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

BL

Motor on left side

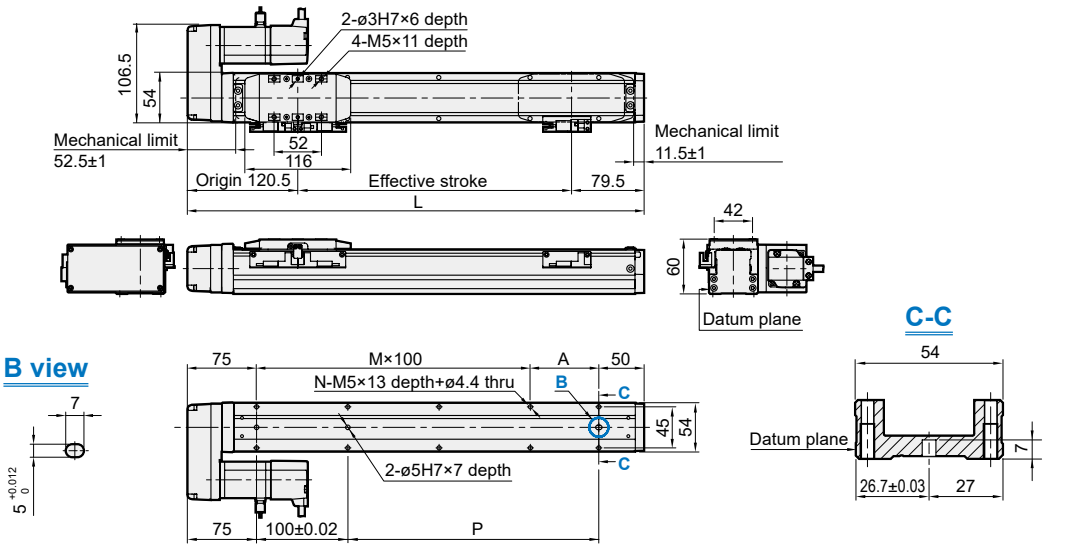


Unit: mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	25	75	25	75	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	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
Weight (kg)	2.4	2.6	2.8	3	3.2	3.4	3.6	3.8	4	4.2	4.4	4.6	4.8	5	5.2	5.4

BR

Motor on right side



Unit: mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	25	75	25	75	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	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
Weight (kg)	2.4	2.6	2.8	3	3.2	3.4	3.6	3.8	4	4.2	4.4	4.6	4.8	5	5.2	5.4