

METGC-4 series



SLIDER ELECTRIC CYLINDER - BUILT-IN GUIDEWAY BALL SCREW DRIVE (WITH MOTOR)

Mindman



Specification

Model		METGC-4	
Repeatability (mm)		±0.01	
Ball screw lead (mm)		1	2.5
Max. speed (mm/s)	Horizontal	≤ 58	≤ 145
	Vertical	≤ 58	≤ 129
Max. payload (kg)	Horizontal	≤ 24	≤ 24
	Wall	≤ 24	≤ 24
	Vertical	≤ 3.5	≤ 7.5
Rated thrust (N)		2188	875
Stroke (mm)		50~500 / 50 pitch	
Motor dimension (mm)		□ 35	
Ball screw ø (mm)		C7ø8	

* When the stroke is over 200mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances.

* When max speed shown here is when software speed setting is 100%

Order example

METGC-4 - L01 - 100 - M - TC100 - 03 - N1 - 0001

Ball screw brand	Ball screw lead	Stroke	Motor position	Controller	Cable length	I/O cable
L T-Standard MIT	01 1 mm 2.5 2.5 mm	50~500 mm 50 mm pitch	M Built-in BM On lower side BR On right side BL On left side	TC100 <small>* Please refer to page 4-118.</small>	01 1 m 03 3 m 05 5 m 10 10 m <small>* Standard: 3 m</small>	— I/O cable N1 Shielded I/O cable <small>* Standard: 1.5 m</small>

Labels for the order code: Model (METGC-4), Spec. (L01), Stroke (100), Motor position (M), Controller (TC100), Cable length (03), I/O cable (N1), Special order no. (0001).

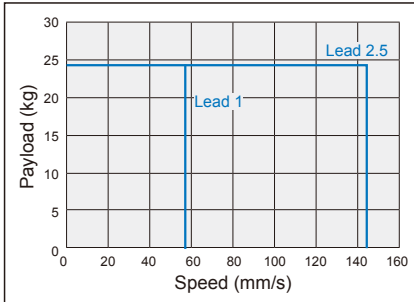
Order example of controller

TC100 - 03

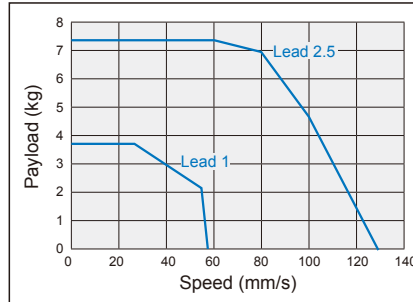
Controller	Cable length
TC100	Blank No cable 01 1 m 03 3 m 05 5 m 10 10 m <small>* Standard: 3 m</small>

Speed-payload curve diagram

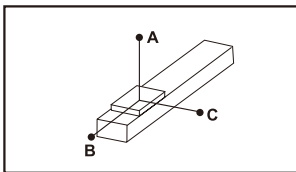
Horizontal



Vertical

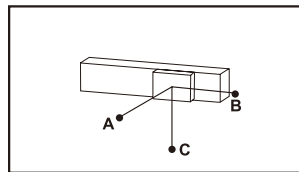


Allowable overhang



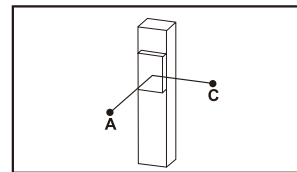
Unit: mm

Horizontal installation	A	B	C	
Lead 1	12kg	540	54	144
	18kg	380	33	49
	24kg	230	23	34
Lead 2.5	10kg	570	57	83
	16kg	320	32	7
	24kg	190	19	27



Unit: mm

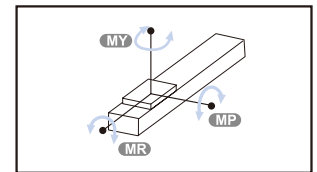
Wall installation	A	B	C	
Lead 1	12kg	94	69	699
	18kg	56	44	411
	24kg	34	30	308
Lead 2.5	10kg	58	47	521
	15kg	40	34	343
	20kg	28	25	245



Unit: mm

Vertical installation	A	C	
Lead 1	2.6kg	288	288
	3kg	254	254
	3.5kg	222	222
Lead 2.5	4kg	170	170
	7.1kg	100	100
	7.5kg	97	97

Static loading moment



Unit: N.m

MY	79
MP	79
MR	116

- 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.

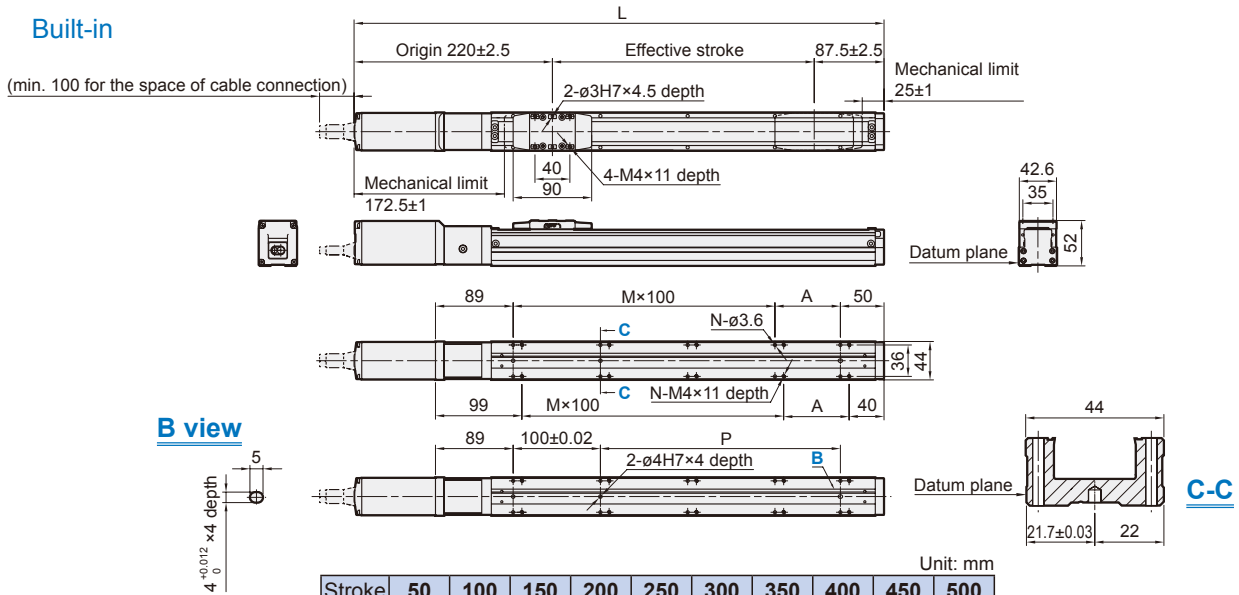
METGC-4 Dimensions



SLIDER ELECTRIC CYLINDER - BUILT-IN GUIDEWAY BALL SCREW DRIVE (WITH MOTOR)

M

Built-in



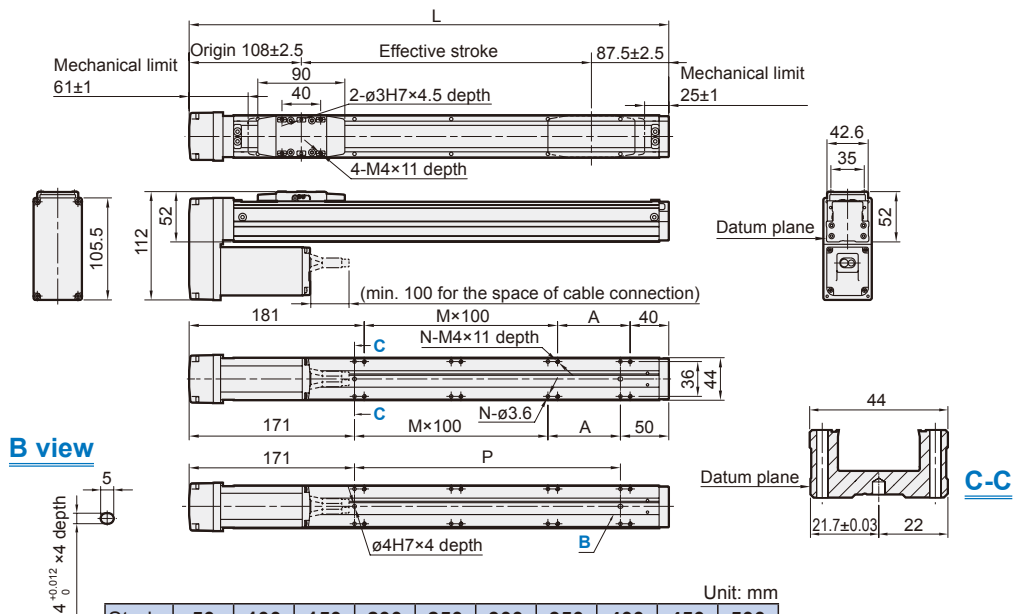
Unit: mm

Stroke	50	100	150	200	250	300	350	400	450	500
L	357.5	407.5	457.5	507.5	557.5	607.5	657.5	707.5	757.5	807.5
A	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5
N	6	6	8	8	10	10	12	12	14	14
P	25	75	125	175	225	275	325	375	425	475
KG*	1.2	1.45	1.7	1.95	2.19	2.44	2.69	2.94	3.18	3.43

* Weight of model with motor.

BM

Motor on lower side



Unit: mm

Stroke	50	100	150	200	250	300	350	400	450	500
L	246	296	346	396	446	496	546	596	646	696
A	25	75	25	75	25	75	25	75	25	75
M	0	0	1	1	2	2	3	3	4	4
N	4	4	6	6	8	8	10	10	12	12
P	25	75	125	175	225	275	325	375	425	475
KG*	1.46	1.71	1.96	2.2	2.45	2.7	2.95	3.19	3.44	3.69

* Weight of model with motor.

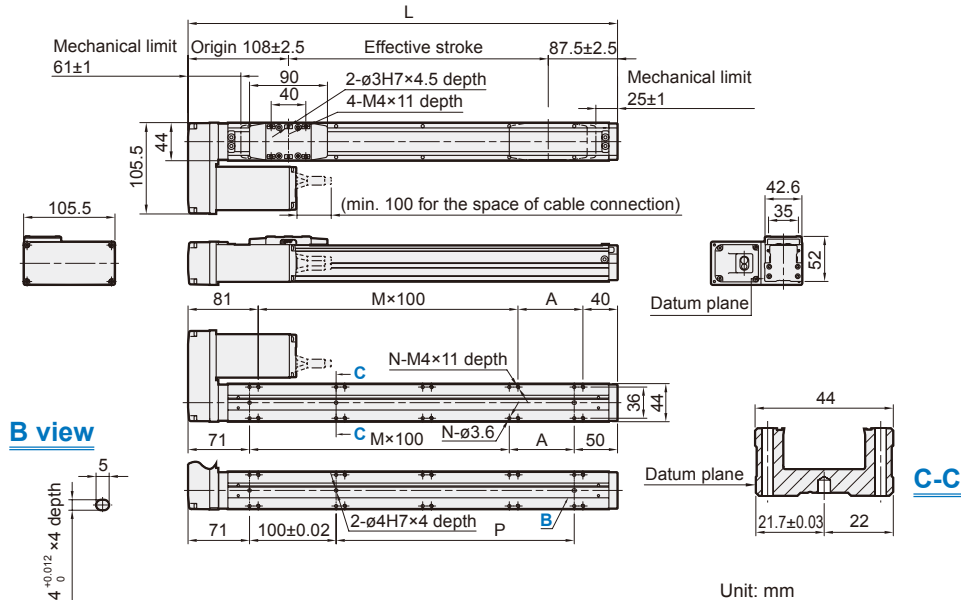
METGC-4 Dimensions



SLIDER ELECTRIC CYLINDER - BUILT-IN GUIDEWAY BALL SCREW DRIVE (WITH MOTOR)

BL

Motor on left side



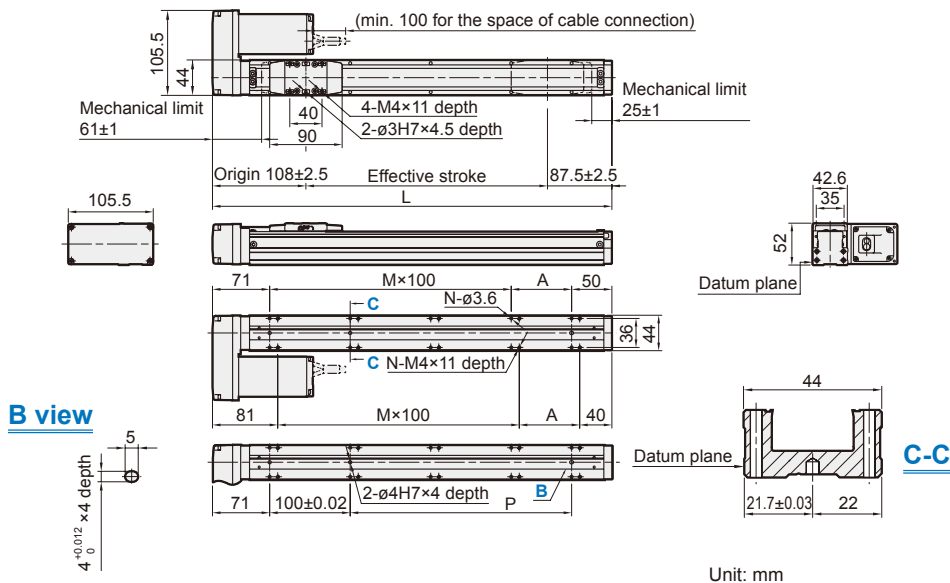
Unit: mm

Stroke	50	100	150	200	250	300	350	400	450	500
L	246	296	346	396	446	496	546	596	646	696
A	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5
N	6	6	8	8	10	10	12	12	14	14
P	25	75	125	175	225	275	325	375	425	475
KG*	1.46	1.71	1.96	2.2	2.45	2.7	2.95	3.19	3.44	3.69

* Weight of model with motor.

BR

Motor on right side



Unit: mm

Stroke	50	100	150	200	250	300	350	400	450	500
L	246	296	346	396	446	496	546	596	646	696
A	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5
N	6	6	8	8	10	10	12	12	14	14
P	25	75	125	175	225	275	325	375	425	475
KG*	1.46	1.71	1.96	2.2	2.45	2.7	2.95	3.19	3.44	3.69

* Weight of model with motor.