

METGC-5 series



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

mindman



Specification

Model		METGC-5			
Repeatability (mm)		±0.01			
Ball screw lead (mm)		2	5	10	20
Max. speed (mm/s)	Horizontal	≤ 113	≤ 288	≤ 508	≤ 917
	Vertical	≤ 113	≤ 288	≤ 383	≤ 700
Max. payload (kg)	Horizontal	≤ 40	≤ 40	≤ 40	≤ 13.5
		Wall	≤ 30	≤ 30	≤ 15
	Vertical	≤ 15	≤ 15	≤ 3.2	≤ 1.2
Rated thrust (N)		1147	459	229	115
Stroke (mm)		50~800 / 50 pitch			
Motor dimension (mm)		□ 42			
Ball screw ø (mm)		C7ø12			

* When the stroke is over 500mm, 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-5 - L05 - 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	02 2 mm 05 5 mm 10 10 mm 20 20 mm	50~800 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>

Special order no. 0001

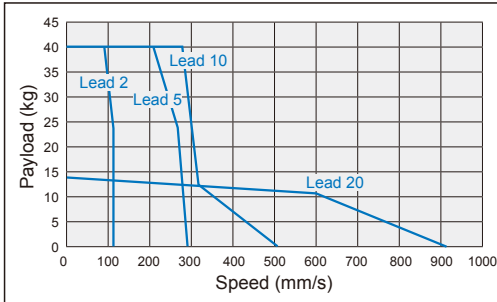
Order example of controller

TC100 - 03

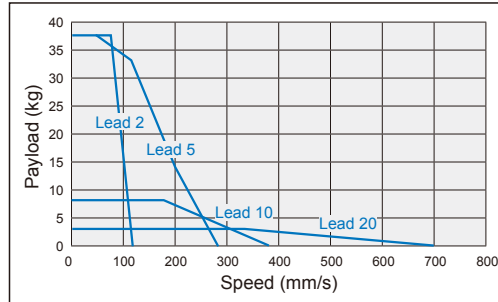
Controller	Cable length
TC100	Blank No cable 01 1 m 03 3 m 05 5 m 10 10 m <small>* Standard: 3 m</small>

Speed-payload curve diagram

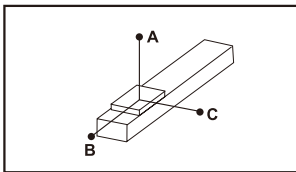
Horizontal



Vertical

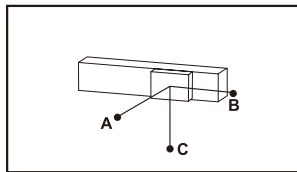


Allowable overhang



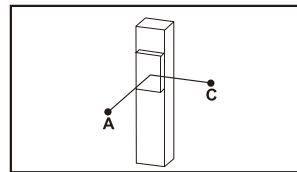
Unit: mm

Horizontal installation		A	B	C
Lead 2	20kg	430	43	61
	30kg	250	25	36
	40kg	170	17	25
Lead 5	24kg	260	26	35
	30kg	190	19	26
	40kg	130	13	18
Lead 10	15kg	470	47	63
	25kg	240	24	33
	40kg	110	11	15
Lead 20	4kg	801	164	194
	9kg	493	73	91
	13.5kg	580	58	78



Unit: mm

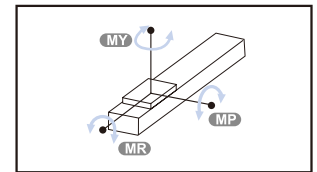
Wall installation		A	B	C
Lead 2	10kg	137	100	1100
	20kg	61	45	750
	30kg	36	26	550
Lead 5	10kg	100	75	650
	20kg	45	32	420
	30kg	25	19	275
Lead 10	5kg	180	145	600
	10kg	91	68	512
	15kg	60	42	550
Lead 20	4kg	211	173	990
	8kg	111	86	720
	10kg	97	73	930



Unit: mm

Vertical installation		A	C
Lead 2	7kg	158	158
	10.5kg	106	106
	15kg	77	77
Lead 5	7kg	140	140
	13.5kg	80	80
	15kg	75	75
Lead 10	0.8kg	1059	1059
	1.6kg	563	563
	3.2kg	298	298
Lead 20	0.4kg	1809	1809
	0.8kg	968	968
	1.2kg	706	706

Static loading moment



Unit: N.m

MY	103
MP	103
MR	144

- 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.

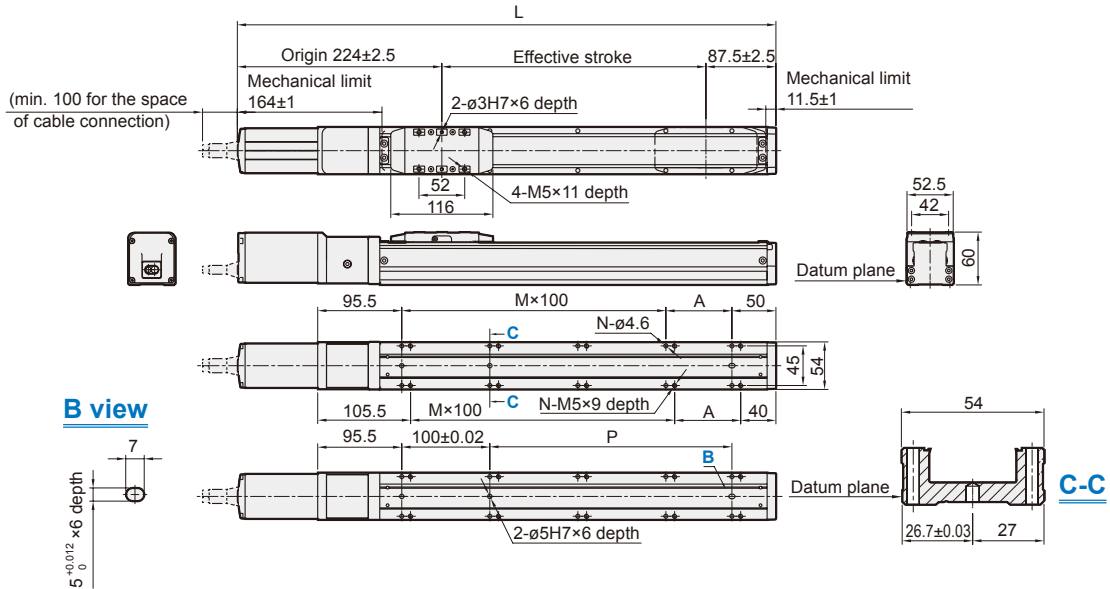
METGC-5 Dimensions



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

M

Built-in

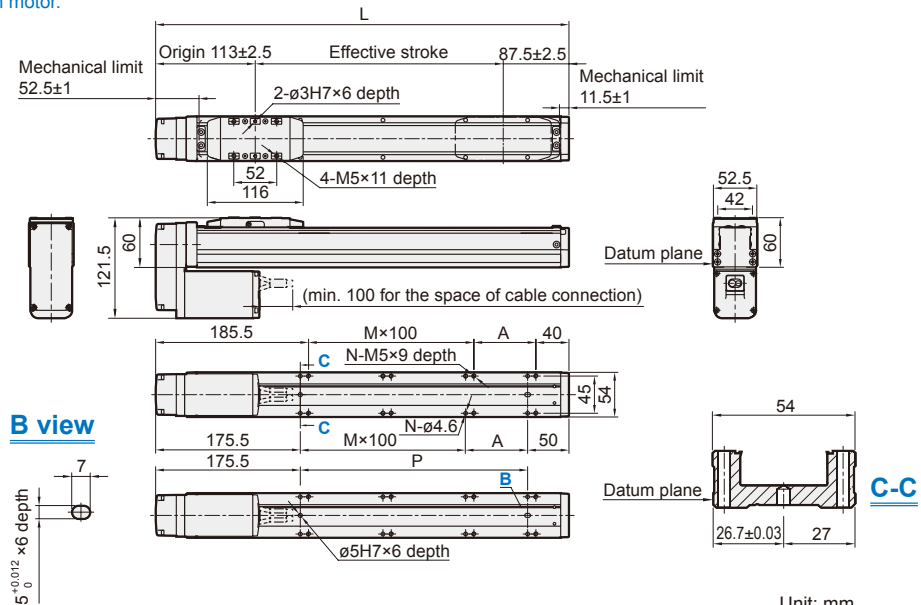


Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	361.5	411.5	461.5	511.5	561.5	611.5	661.5	711.5	761.5	811.5	861.5	911.5	961.5	1011.5	1061.5	1111.5
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG*	1.97	2.18	2.4	2.62	2.83	3.05	3.27	3.48	3.7	3.92	4.13	4.35	4.57	4.78	5	5.22

* Weight of model with motor.

BM

Motor on lower side



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	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7
N	4	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG*	2.34	2.54	2.73	2.93	3.13	3.32	3.52	3.72	3.91	4.11	4.31	4.5	4.7	4.9	5.09	5.29

* Weight of model with motor.

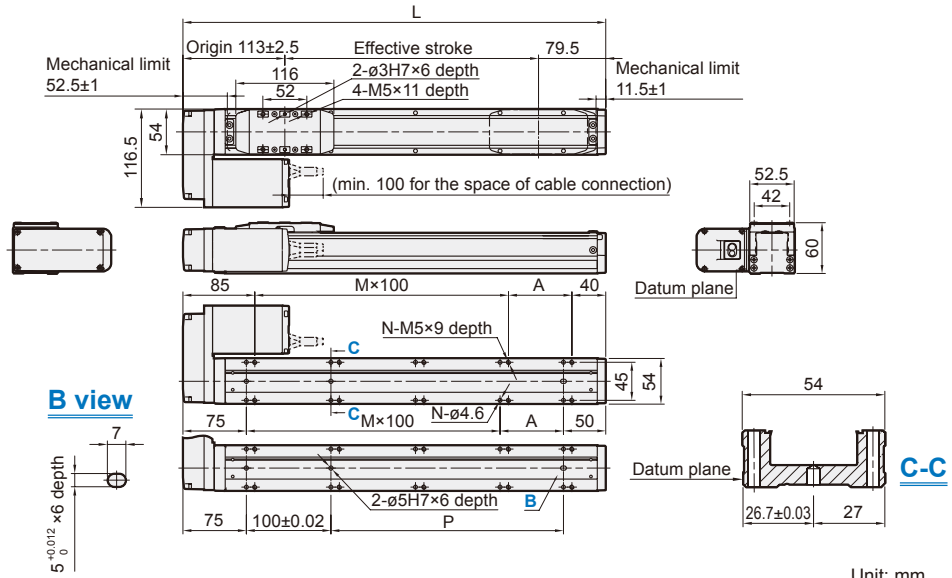
METGC-5 Dimensions



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

BL

Motor on left side



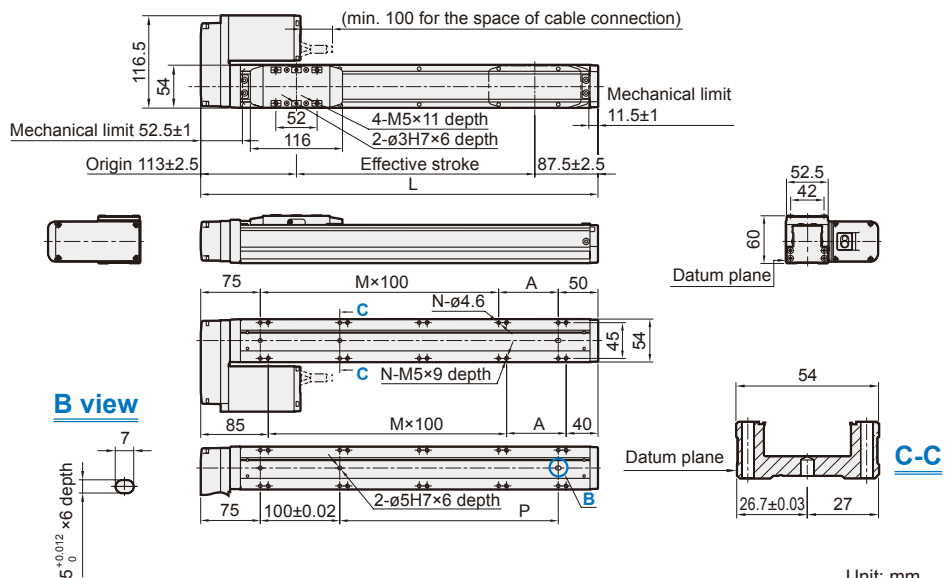
Unit: mm

Stroke	50	100	150	200	250	300	350	400	450	500	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
KG*	2.34	2.54	2.73	2.93	3.13	3.32	3.52	3.72	3.91	4.11	4.31	4.5	4.7	4.9	5.09	5.29

* Weight of model with motor.

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
KG*	2.34	2.54	2.73	2.93	3.13	3.32	3.52	3.72	3.91	4.11	4.31	4.5	4.7	4.9	5.09	5.29

* Weight of model with motor.