

# METSC-6 series

## SLIDER ELECTRIC CYLINDER - BALL SCREW DRIVE (WITH MOTOR)



mindman



### Specification

Model	METSC-6	
Repeatability (mm)	±0.01	
Ball screw lead (mm)	5	10
Maximum speed (mm/s) <sup>※1</sup>	≤250	≤500
Maximum payload	Horizontal(kg)	≤30
	Vertical (kg)	≤10
Rated thrust (N)	565	283
Stroke / pitch (mm) <sup>※2</sup>	50~800 / 50 Pitch	
Motor dimension (mm)	□42	
Ball screw spec (mm)	C7 φ 12	

※1. The maximum speed shown here is when software speed setting is 100%. When the stroke is over 600mm, the run-out of the ball screw will occur.

※2. We recommend to low down the working speed under this circumstances.

### Order example of cylinder

**METSC-6 — L05 — 100 — M — TC100 — 03 — M5 — A0001**

<b>Model</b>	<b>Spec.</b>	<b>Stroke</b>	<b>Special order no.</b>		
<b>Ball screw brand</b>	<b>Ball screw lead</b>	<b>Motor position</b>	<b>Corresponding controller</b>	<b>Cable length</b>	<b>Installation hole</b>
L T-Standard MIT	05 5 mm 10 10 mm	M Built-in BM On lower side BR On right side BL On left side	TC100 ※ Please refer to 4-128.	01 1m 03 3m 05 5m 10 10m ※ Standard: 3m	— Upwards lock type M5 Down lock type ※ If the stroke is less than 100mm, it is restricted to select M5 down lock type only.

### Order example of controller

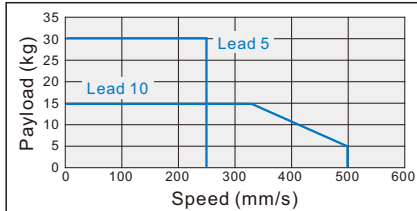
**TC100 — 03**

<b>Controller</b>	<b>Cable length</b>	
TC100	Blank	No cable
	01	1m
	03	3m
	05	5m
	10	10m

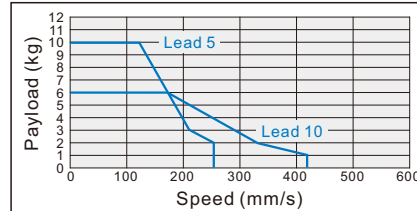
※ Standard: 3m

### Speed-payload curve diagram

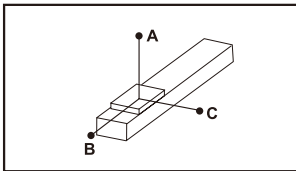
Horizontal



Vertical

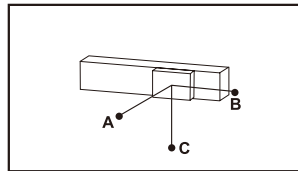


### Allowable overhang N.m



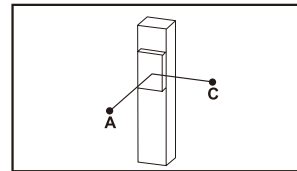
Unit: mm

Horizontal installation		A	B	C
Lead 5	10kg	650	30	80
	20kg	390	15	40
	30kg	250	10	25
Lead 10	5kg	460	60	145
	10kg	400	35	85
	15kg	250	20	50



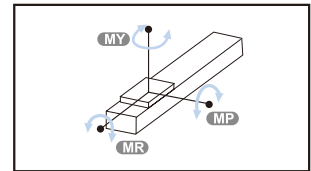
Unit: mm

Wall installation		A	B	C
Lead 5	10kg	75	30	650
	20kg	45	17	450
	30kg	25	10	250
Lead 10	5kg	150	60	650
	10kg	90	35	420
	15kg	95	22	270



Unit: mm

Vertical installation		A	C
Lead 5	5kg	90	90
	8kg	60	60
	10kg	50	50
Lead 10	2kg	150	150
	4kg	100	100
	6kg	75	75



Unit: N.m

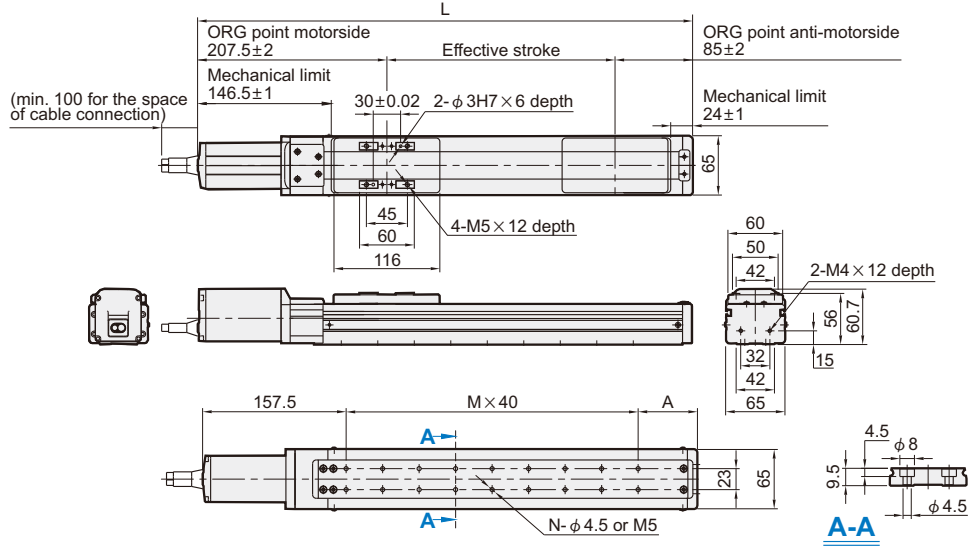
Static loading moment	
MY	70
MP	80
MR	75

# METSC-6 Dimensions

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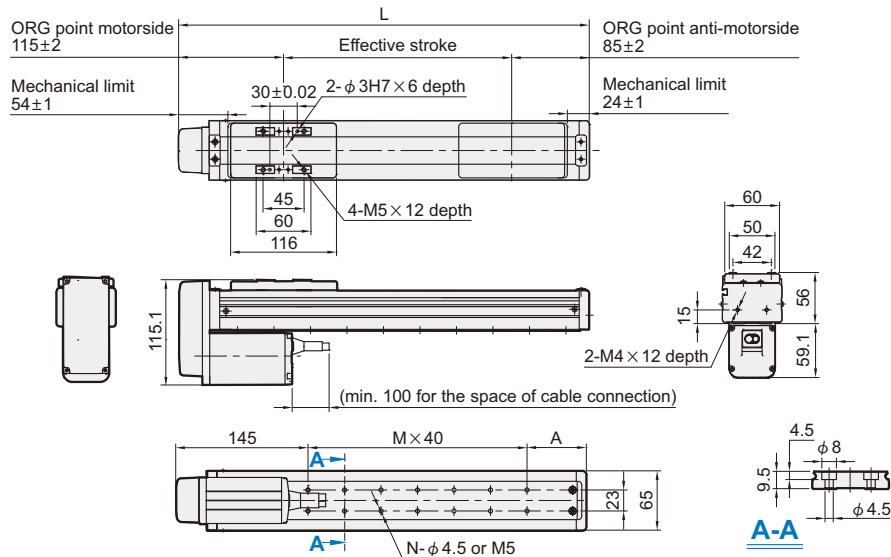
### M Motor built-in



Unit: mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	342.5	392.5	442.5	492.5	542.5	592.5	642.5	692.5	742.5	792.5	842.5	892.5	942.5	992.5	1042.5	1092.5
A	65	35	45	55	65	35	45	55	65	35	45	55	65	35	45	55
M	3	5	6	7	8	10	11	12	13	15	16	17	18	20	21	22
N	8	12	14	16	18	22	24	26	28	32	34	36	38	42	44	46
KG	3.09	3.32	3.55	3.77	4	4.22	4.44	4.67	4.89	5.12	5.34	5.56	5.79	6.01	6.24	6.44

### BM Motor on lower side



Unit: mm

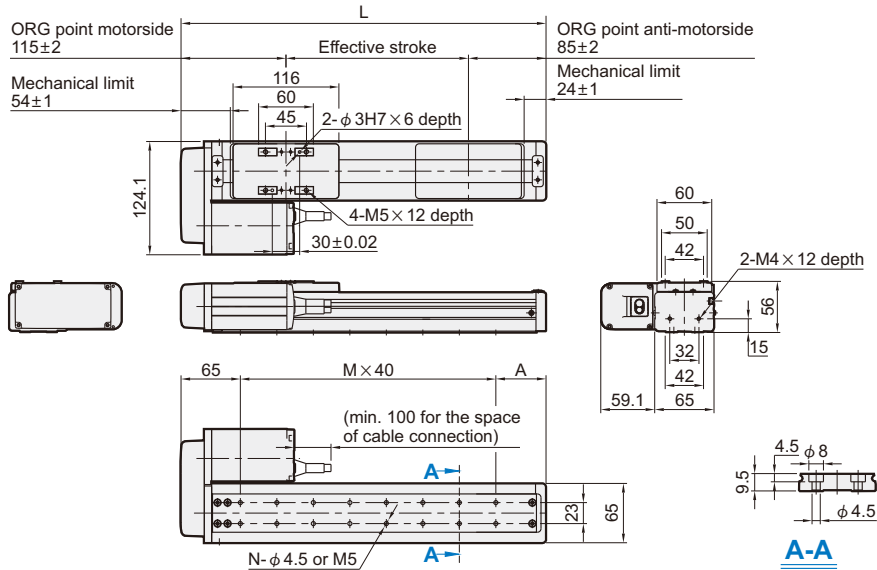
Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	65	35	45	55	65	35	45	55	65	35	45	55	65	35	45	55
M	1	3	4	5	6	8	9	10	11	13	14	15	16	18	19	20
N	4	8	10	12	14	18	20	22	24	28	30	32	34	38	40	42
KG	3.13	3.36	3.59	3.81	4.04	4.27	4.49	4.72	4.94	5.17	5.4	5.62	5.85	6.07	6.3	6.49

# METSC-6 Dimensions

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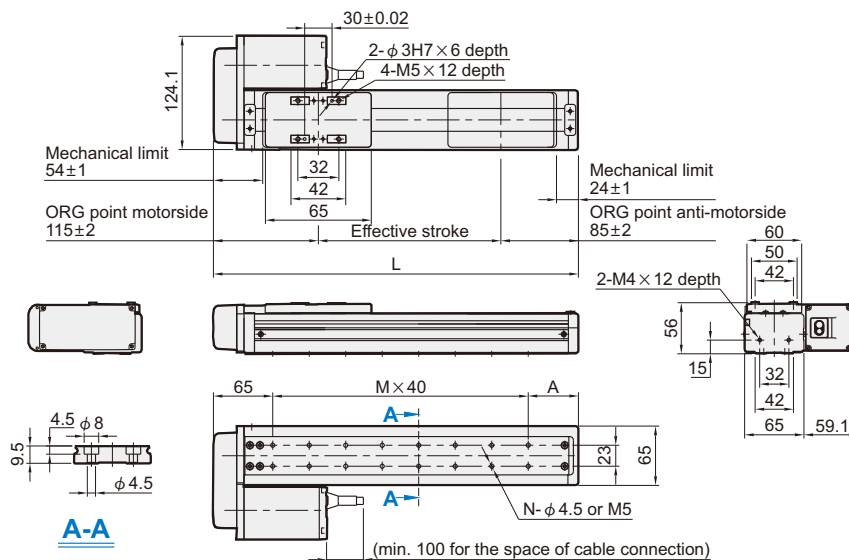
**BL**  
Motor on left side



Unit: mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
<b>L</b>	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
<b>A</b>	65	35	45	55	65	35	45	55	65	35	45	55	65	35	45	55
<b>M</b>	3	5	6	7	8	10	11	12	13	15	16	17	18	20	21	22
<b>N</b>	8	12	14	16	18	22	24	26	28	32	34	36	38	42	44	46
<b>KG</b>	3.13	3.36	3.59	3.81	4.04	4.27	4.49	4.72	4.94	5.17	5.4	5.62	5.85	6.07	6.3	6.49

**BR**  
Motor on right side



Unit: mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
<b>L</b>	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
<b>A</b>	65	35	45	55	65	35	45	55	65	35	45	55	65	35	45	55
<b>M</b>	3	5	6	7	8	10	11	12	13	15	16	17	18	20	21	22
<b>N</b>	8	12	14	16	18	22	24	26	28	32	34	36	38	42	44	46
<b>KG</b>	3.13	3.36	3.59	3.81	4.04	4.27	4.49	4.72	4.94	5.17	5.4	5.62	5.85	6.07	6.3	6.49