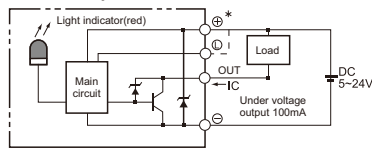




Sensor layout



Specification

Model		METS-5M		
Repeatability (mm)		±0.01		
Belt lead (mm)		2	5	10
Rated thrust (N)		854	341	170
Stroke (mm)		100~800 / 50 Pitch		
Ball screw ϕ (mm)		C7 ϕ 12		
High rigidity linear guide (mm)		W24 \times H8.5		
Home sensor	Outside	EE-SX672 (NPN)		
	Built in	-		

Stepping motor		□42		
Max. speed(mm/s)		16	41	83
Max. payload(kg)	Horizontal	10	10	5
	Vertical	7	3	1.5
Coupling(mm)		7 \times 5		
Max. static torque (N.m)		0.32		

Servo motor		100 W		
Max. speed (mm/s)		100	250	500
Max. payload(kg)	Horizontal	10	10	15
	Vertical	7	3	1.5
Coupling (mm)		7 \times 8		

※ When the stroke is longer than 600mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown.

Order example

METS-5M — **L05** — **100** — **BC** — **42M** — **C4** — **0001**

Model Spec. Stroke M10B Special order no.

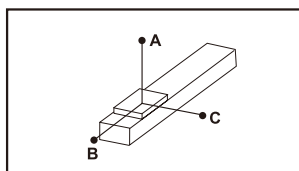
100~800 mm
50 mm pitch

Ball screw brand	Ball screw lead	Motor position	Stepping motor brand	Home sensor	Limit sensor
L T-Standard MIT	02 2 mm 05 5 mm 10 10 mm	BC Exposed BM On lower side BR On right side BL On left side	□42 STEP motor 42M Tamagawa (TS3617N3E8) Oriental (PK245-01A) Sanyo (103H5209-0440)	Out side C Motor side D Opposite motor side No sensor E None	Out side 3 1 Pc 4 2 Pcs No sensor 5 None

Motor brand, power output, brakes				
100W SERVO motor				
M	Mitsubishi	10	100W	B
P	Panasonic			
Y	Yaskawa			
T	Delta			

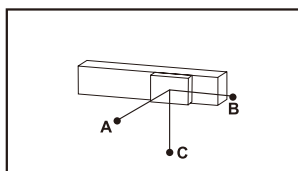
※ Need not show B with no brake.

Allowable overhang N.m



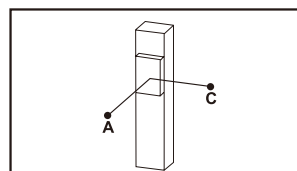
Unit: mm

Horizontal installation		A	B	C
Lead 2	5kg	700	29	71
	10kg	380	12	33
Lead 5	4kg	515	58	135
	7kg	340	26	62
Lead 10	3kg	433	87	180
	5kg	223	33	75



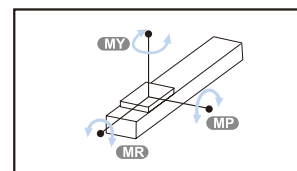
Unit: mm

Wall installation		A	B	C
Lead 2	5kg	56	12	500
	10kg	16	0	220
Lead 5	4kg	107	24	380
	7kg	31	0	195
Lead 10	3kg	149	54	376
	5kg	50	1	148



Unit: mm

Vertical installation		A	C
Lead 2	3kg	40	41
	7kg	0	0
Lead 5	3kg	56	57
Lead 10	1.5kg	125	125



Unit: N.m

Static loading moment	
MY	16
MP	20
MR	19

Standard stepping motors

Brand	Max static torque	AC-Voltage	Stepping motor model	Compatible driver model
Tamagawa	0.32	DC24V	2-phase-TS3617N3E8	CD-2D34M 200/400/800/1600 P/rev
Oriental	0.32	Single-phase 100V	2-phase-PK245-01A	UDK2112 200/400/800/1600/3200 P/rev
Sanyo	0.32	DC24V	2-phase-103H5209-0440	US1D200P10 200/400/800/1600/3200 P/rev

Standard servo motors

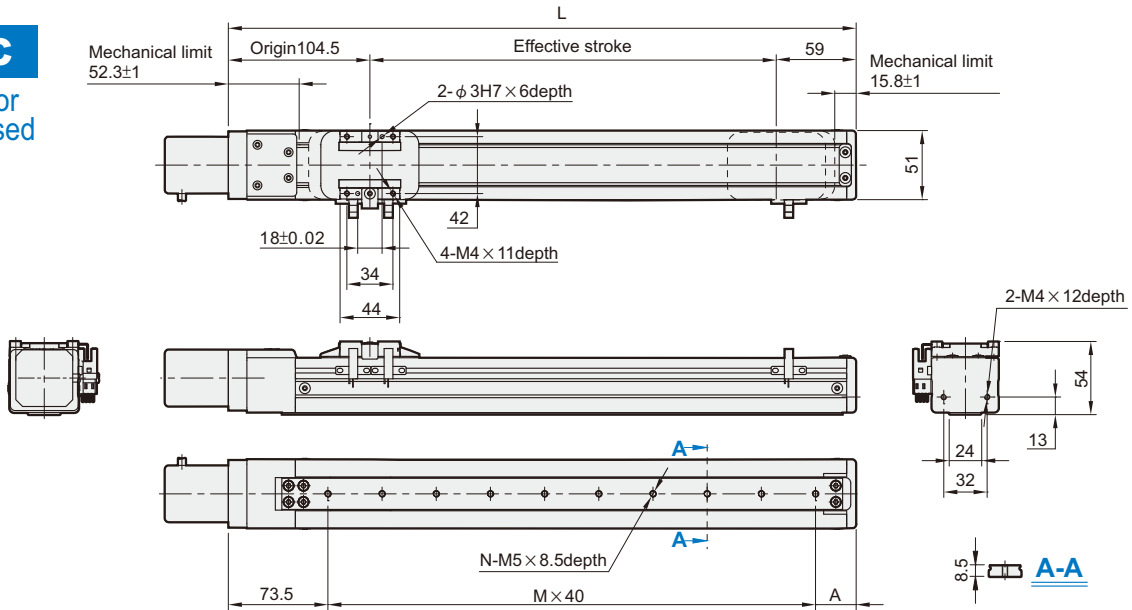
Brand	Mark	Brake	Watt	AC-Voltage	Motor model	Compatible driver model
Mitsubishi	M	No brake(Horizontal type)	100	220	HP-KP13	MR-J3-10A
		With brake(Vertical type)	100	220	HP-KP13B	MR-J3-10A
Panasonic	P	No brake(Horizontal type)	100	220	MSMD012P1S	MADDT1205
		With brake(Vertical type)	100	220	MSMD012P1T	MADDT1205
Delta	T	No brake(Horizontal type)	100	220	ECMA-C20401ES	ASD-B20121-B
		With brake(Vertical type)	100	220	ECMA-C20401FS	ASD-B20121-B

METS-5M Stepping motor □42/Dimensions

SLIDER ELECTRIC CYLINDER - BALL SCREW DRIVE (WITHOUT MOTOR)



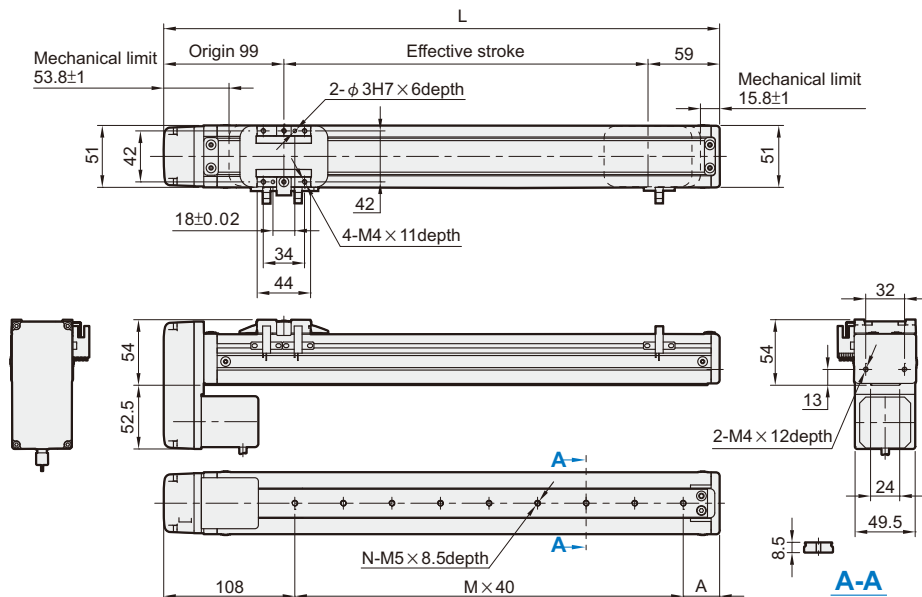
BC
Motor exposed



Unit: mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	213.5	263.5	313.5	363.5	413.5	463.5	513.5	563.5	613.5	663.5	713.5	763.5	813.5	863.5	913.5	963.5
A	60	30	40	50	60	30	40	50	60	30	40	50	60	30	40	50
M	2	4	5	6	7	9	10	11	12	14	15	16	17	19	20	21
N	3	5	6	7	8	10	11	12	13	15	16	17	18	20	21	22
KG	1.56	1.71	1.85	2	2.14	2.29	2.44	2.58	2.73	2.87	3.02	3.17	3.31	3.46	3.6	3.75

BM
Motor on lower side



Unit: mm

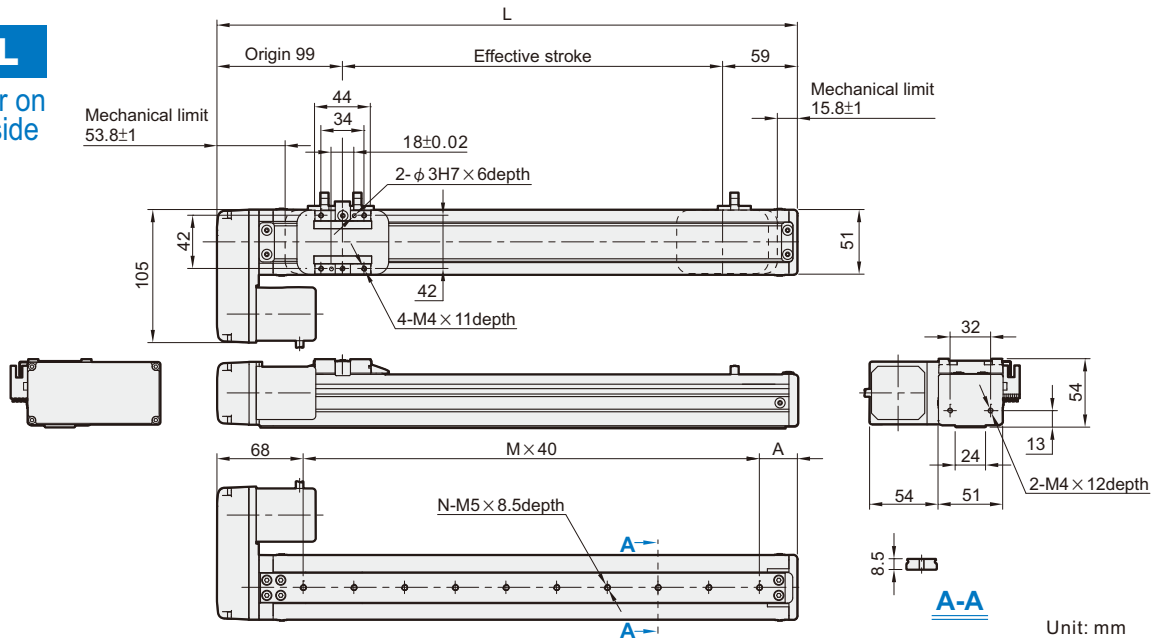
Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	208	258	308	358	408	458	508	558	608	658	708	758	808	858	908	958
A	60	30	40	50	60	30	40	50	60	30	40	50	60	30	40	50
M	1	2	3	4	5	6	8	9	10	11	13	14	15	16	18	19
N	3	4	5	6	8	9	10	11	13	14	15	16	18	19	20	21
KG	1.66	1.81	1.95	2.1	2.24	2.39	2.54	2.68	2.83	2.97	3.12	3.27	3.41	3.56	3.7	3.85

METS-5M Stepping motor □42/Dimensions

SLIDER ELECTRIC CYLINDER - BALL SCREW DRIVE (WITHOUT MOTOR)



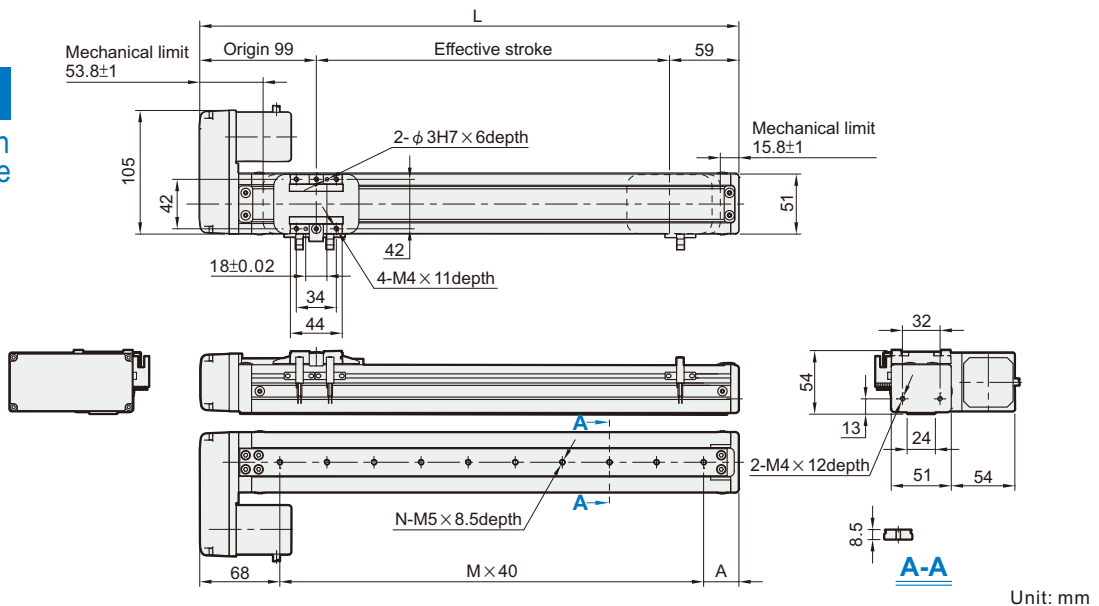
BL
Motor on left side



Unit: mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	208	258	308	358	408	458	508	558	608	658	708	758	808	858	908	958
A	60	30	40	50	60	30	40	50	60	30	40	50	60	30	40	50
M	2	4	5	6	7	9	10	11	12	14	15	16	17	19	20	21
N	3	5	6	7	8	10	11	12	13	15	16	17	18	20	21	22
KG	1.66	1.81	1.95	2.1	2.24	2.39	2.54	2.68	2.83	2.97	3.12	3.27	3.41	3.56	3.7	3.85

BR
Motor on right side



Unit: mm

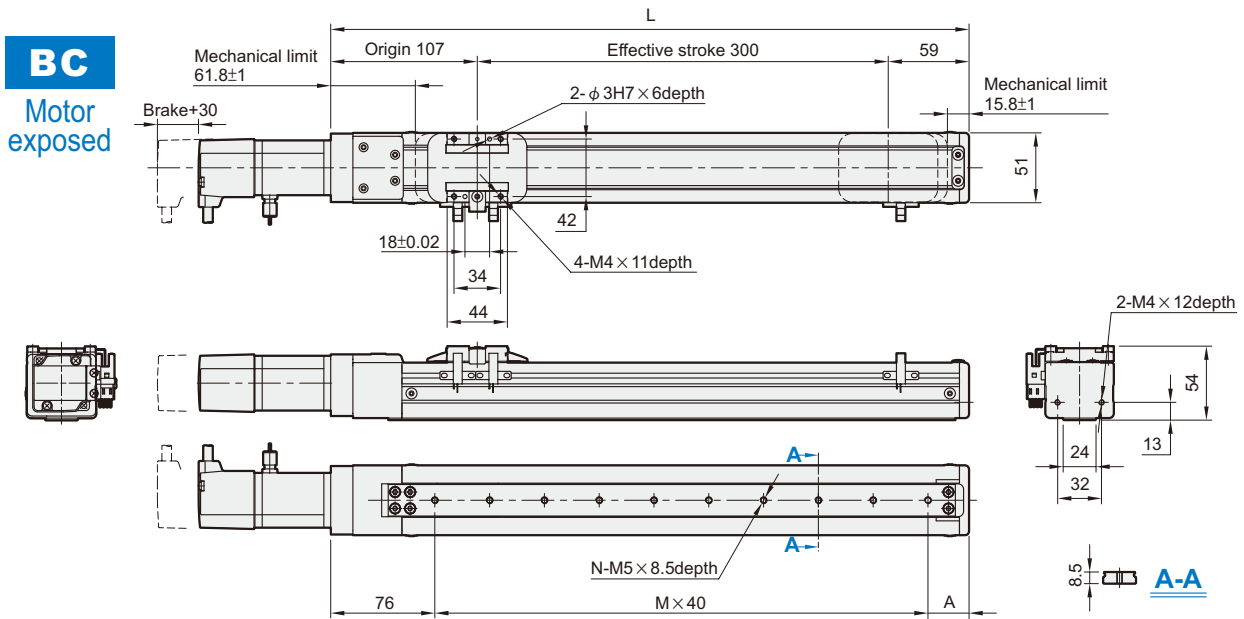
Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	208	258	308	358	408	458	508	558	608	658	708	758	808	858	908	958
A	60	30	40	50	60	30	40	50	60	30	40	50	60	30	40	50
M	2	4	5	6	7	9	10	11	12	14	15	16	17	19	20	21
N	3	5	6	7	8	10	11	12	13	15	16	17	18	20	21	22
KG	1.66	1.81	1.95	2.1	2.24	2.39	2.54	2.68	2.83	2.97	3.12	3.27	3.41	3.56	3.7	3.85

METS-5M Servo motor 100W/Dimensions

SLIDER ELECTRIC CYLINDER - BALL SCREW DRIVE (WITHOUT MOTOR)



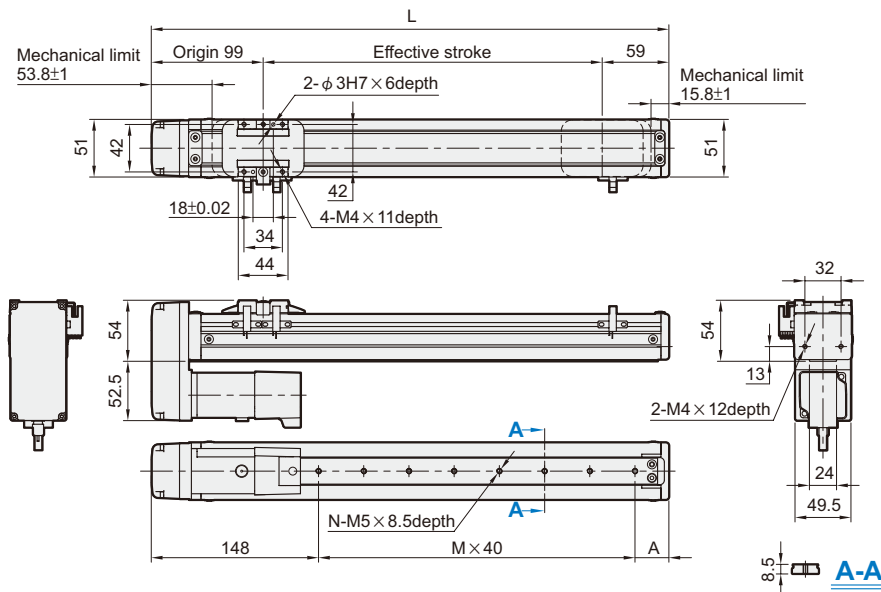
BC
Motor exposed



Unit: mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	216	266	316	366	416	466	516	566	616	666	716	766	816	866	916	966
A	60	30	40	50	60	30	40	50	60	30	40	50	60	30	40	50
M	2	4	5	6	7	9	10	11	12	14	15	16	17	19	20	21
N	3	5	6	7	8	10	11	12	13	15	16	17	18	20	21	22
KG	1.56	1.71	1.85	2	2.14	2.29	2.44	2.58	2.73	2.87	3.02	3.17	3.31	3.46	3.6	3.75

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	208	258	308	358	408	458	508	558	608	658	708	758	808	858	908	958
A	60	30	40	50	60	30	40	50	60	30	40	50	60	30	40	50
M	0	2	3	4	5	7	8	9	10	12	13	14	15	17	18	19
N	1	3	4	5	6	8	9	10	11	13	14	15	16	18	19	20
KG	1.66	1.81	1.95	2.1	2.24	2.39	2.54	2.68	2.83	2.97	3.12	3.27	3.41	3.56	3.7	3.85

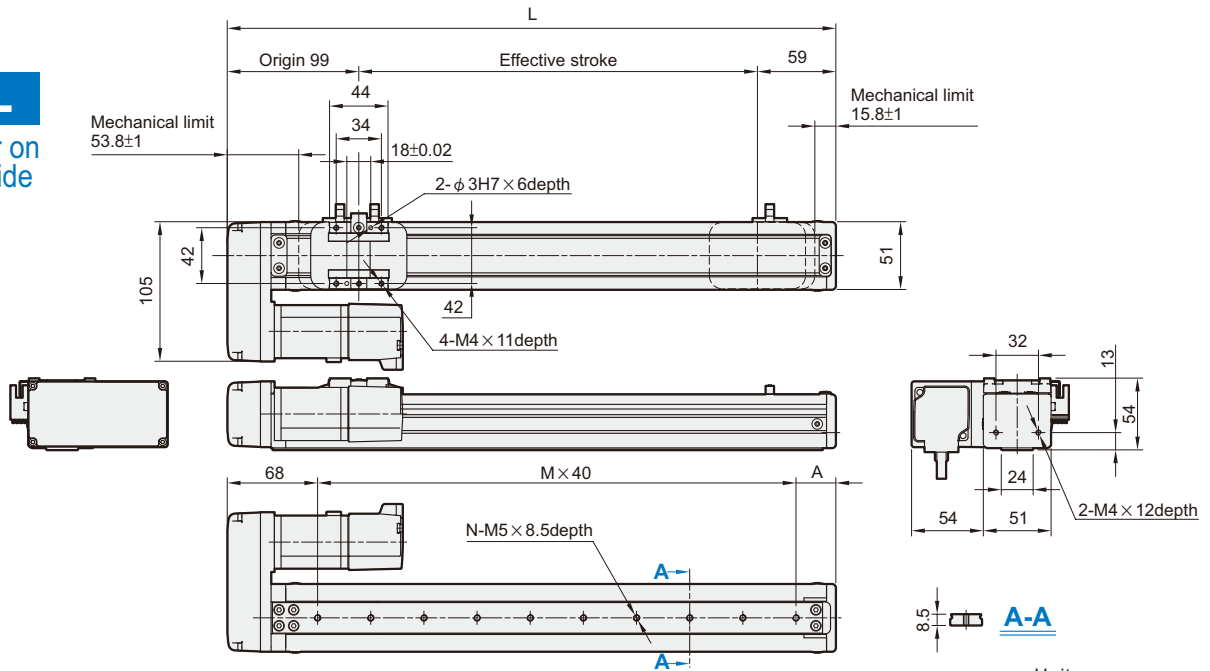
METS-5M Servo motor 100W/Dimensions



SLIDER ELECTRIC CYLINDER - BALL SCREW DRIVE (WITHOUT MOTOR)

mindman

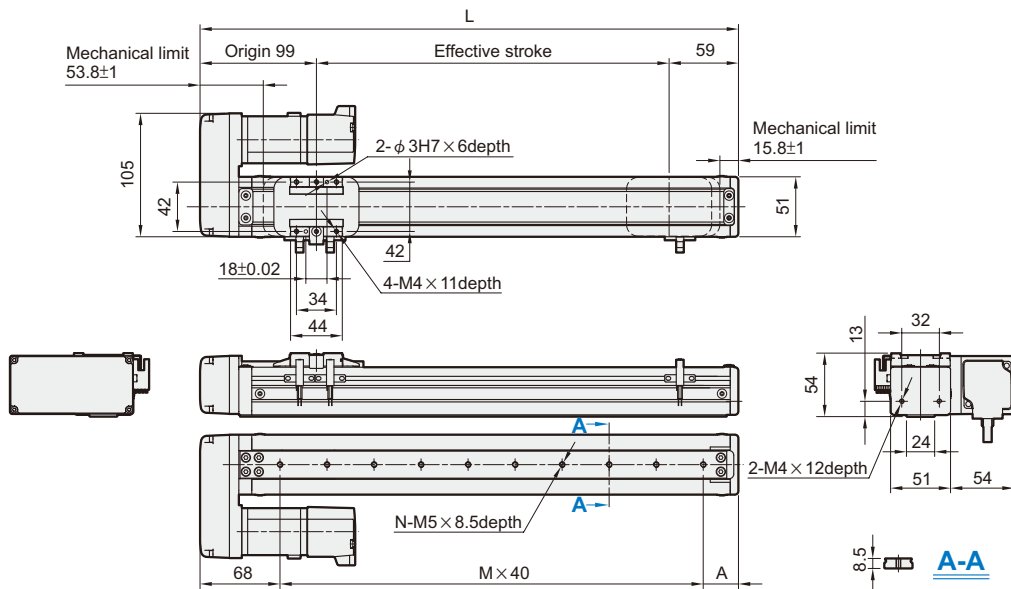
BL
Motor on left side



Unit: mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	208	258	308	358	408	458	508	558	608	658	708	758	808	858	908	958
A	60	30	40	50	60	30	40	50	60	30	40	50	60	30	40	50
M	2	4	5	6	7	9	10	11	12	14	15	16	17	19	20	21
N	3	5	6	7	8	10	11	12	13	15	16	17	18	20	21	22
KG	1.66	1.81	1.95	2.1	2.24	2.39	2.54	2.68	2.83	2.97	3.12	3.27	3.41	3.56	3.7	3.85

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	208	258	308	358	408	458	508	558	608	658	708	758	808	858	908	958
A	60	30	40	50	60	30	40	50	60	30	40	50	60	30	40	50
M	2	4	5	6	7	9	10	11	12	14	15	16	17	19	20	21
N	3	5	6	7	8	10	11	12	13	15	16	17	18	20	21	22
KG	1.66	1.81	1.95	2.1	2.24	2.39	2.54	2.68	2.83	2.97	3.12	3.27	3.41	3.56	3.7	3.85