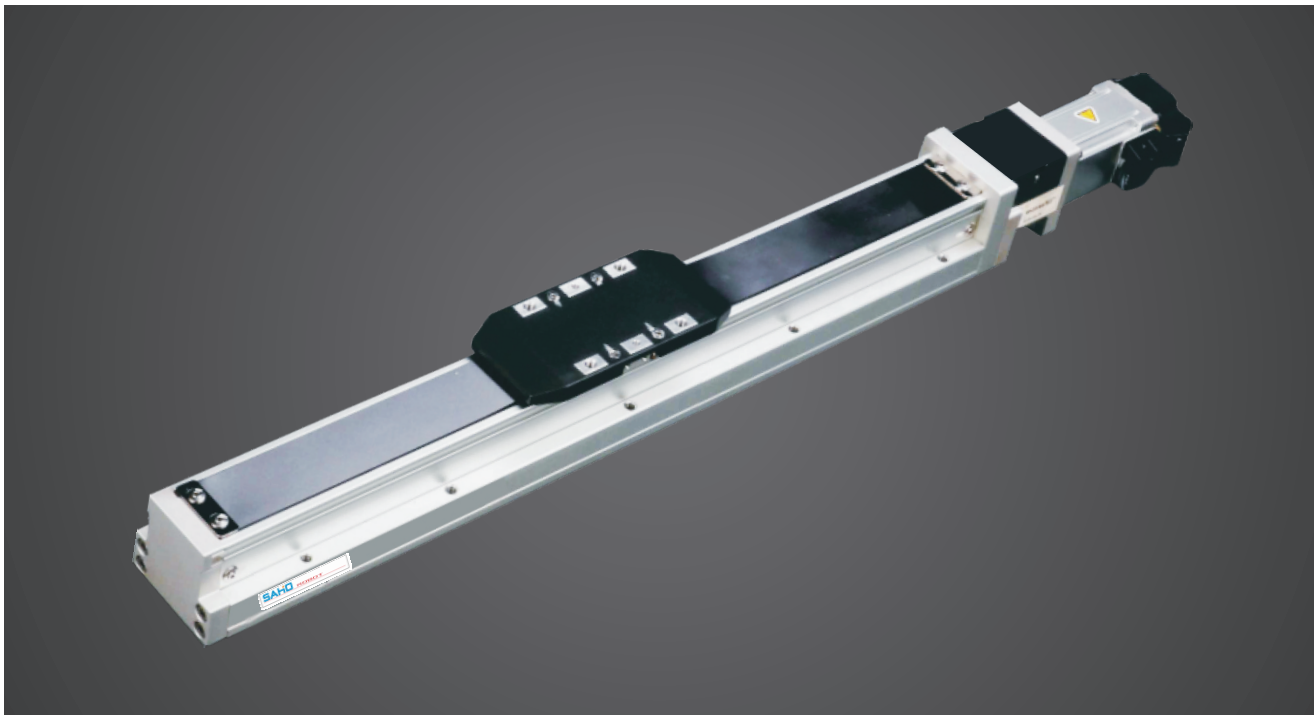


SDH50

Single-Axis



Max. Stroke 800mm

Max. Speed 1000mm/s

Motor Capacity 100W

Ball Screw $\phi 12\text{MM}$

Model Number Designation System

SDH50-P5-S100-BC-M10B-C4-0001

Model

Stroke

50-800mm

50mm pitch

※ A maximum of 2 optical sensors can be installed within the 50mm stroke limit.

Motor Position

BC	Motor Externally Mounted
BM	Motor on lower side
BL	Motor on left side
BR	Motor on right side

Motor Brand & Power

M	Mitsubishi	05	-	B
P	Panasonic	10	100W	
Y	Yaskawa	20	-	
T	Delta	40	-	

※ No indication when there is no brake.
※ Please consult the sales agent for stepper motors.

Home Sensor

External-mounted
C Motor side
D Counter-motor side
No sensor
E No sensor

※ When selecting a 50mm stroke, the following limitations apply:
1. The C4/D4 specifications cannot be applied.
2. The home sensors and limit switches shall be installed on opposite sides.
3. Sensor tabs shall be installed on both left and right sides of the carriage.

Endpoint Limit Sensor

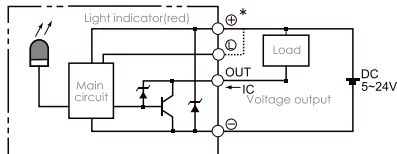
External-mounted
3 1 PC
4 2 PCS
No sensor
5 No sensor

Basic Specifications

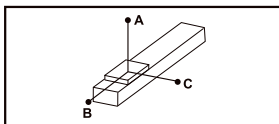
Specifications	Position Repetition Precision		±0.01		
	Ball Screw Lead		5	10	20
	Max. Speed		250	500	1000
	Max. Handling Weight	Horizontal Use	30	15	10
		Vertical Use	10	5	2.5
	Rated Thrust		341	170	85
	Standard Stroke		50-800mm/50 pitch		
Components	AC Servo Motor Capacity		100		
	Ball Screw Outer Diameter		C7 φ 12		
	Coupling		7X8		
	Home Sensor	External-mounted	EE-SX674(NPN)		

※ When the stroke exceeds 300, screw deflection may occur. In this case, please reduce the speed.
※ Motor acceleration/deceleration time is set to 0.2 seconds.

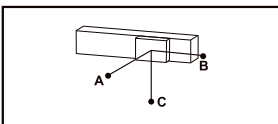
Sensor Wiring (Home & End)



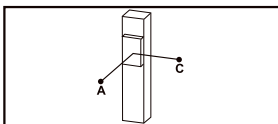
Allowable Load Moment Table



(Unit: mm)



(Unit: mm)



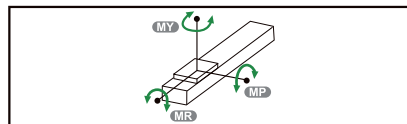
(Unit: mm)

Horizontal Mounting		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

Side Mounting		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

Vertical Mounting		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	
	2.5kg	250	250

Horizontal Operation



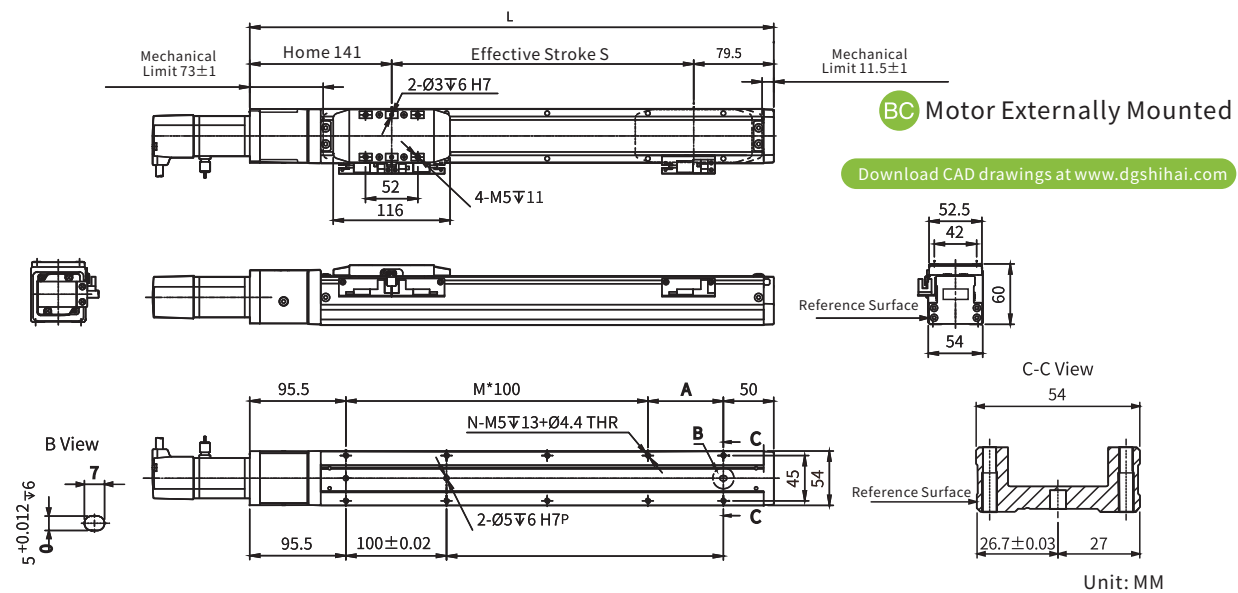
(Unit: N.m)

MY	103
MP	103
MR	144

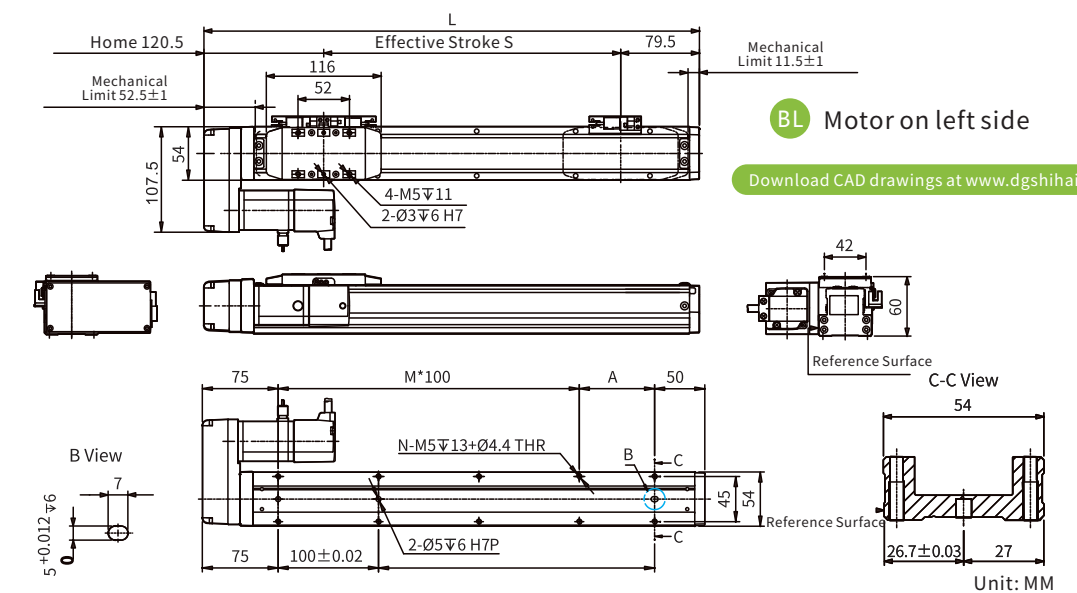
※ The data shown in the torque table represents the center of gravity.
※ Under normal usage compliant with catalog specifications, the guaranteed service life is 10000km.
※ Standard specifications do not apply to inverted installation. For such requirements, please consult our sales team.

List of Servo Motors

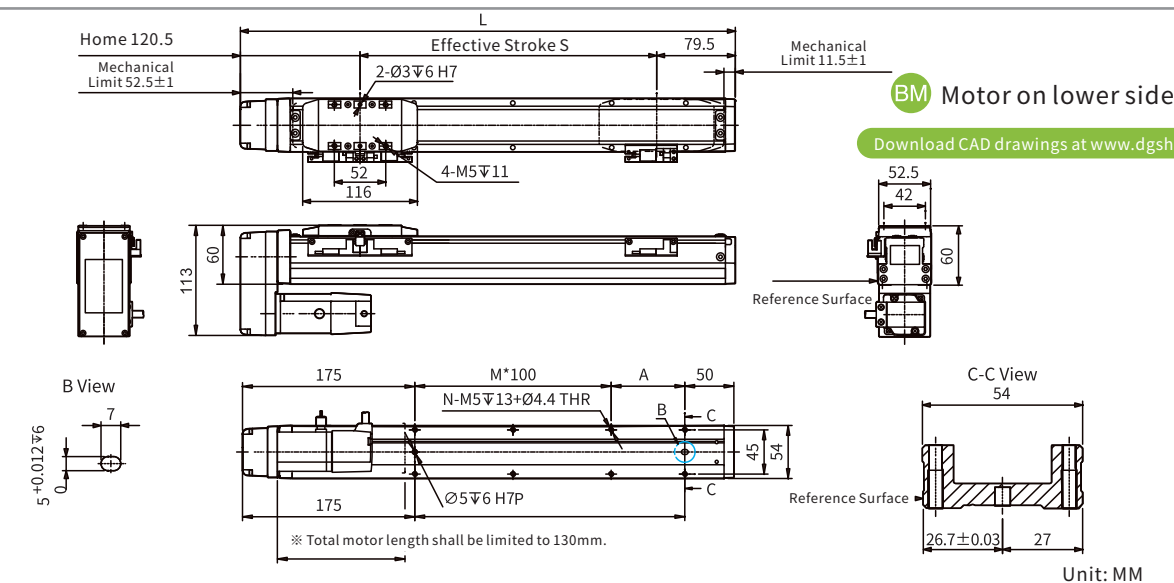
Brand	Mark	Brake	Motor Capacity	Supply Voltage	Servo Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	100	220	HG-KR13	MR-J4-10A
		With Brake (Vertical Type)	100	220	HG-KR13B	MR-J4-10A
Panasonic	P	No Brake (Horizontal Type)	100	220	MSMD012G1U	MADHT1505
		With Brake (Vertical Type)	100	220	MSMD012G1V	MADHT1505
Delta	T	No Brake (Horizontal Type)	100	220	ECMA-C20401ES	ASD-B20121-B
		With Brake (Vertical Type)	100	220	ECMA-C20401FS	ASD-B20121-B



Effective Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	270.5	320.5	370.5	420.5	470.5	520.5	570.5	620.5	670.5	720.5	770.5	820.5	870.5	920.5	970.5	1020.5
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	1.65	1.79	1.92	2.11	2.39	2.50	2.52	2.75	2.86	2.95	3.15	3.28	3.44	3.58	3.71	4.09

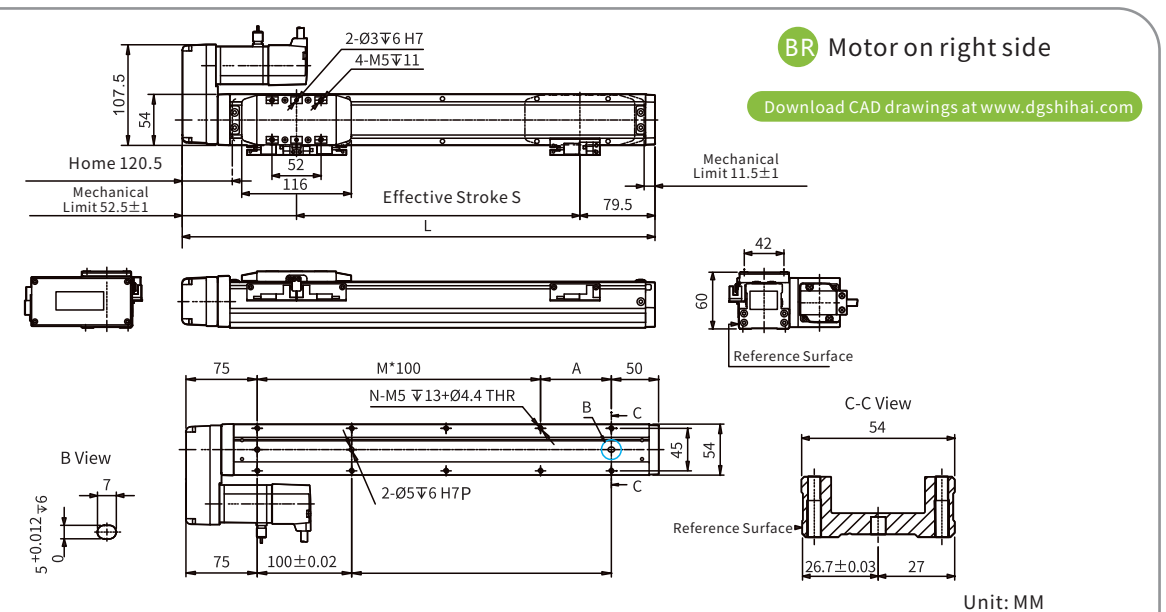


Effective Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	1.68	1.80	2.03	2.14	2.42	2.53	2.58	2.78	2.89	2.98	3.18	3.31	3.47	3.60	3.74	4.12



Effective 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	1.68	1.80	2.03	2.14	2.42	2.53	2.58	2.78	2.89	2.98	3.18	3.31	3.47	3.60	3.74	4.12

※ When the motor is on the lower side, if the motor has a brake, or the motor length exceeds specified limits, standard mounting pin holes cannot be used. In these cases, please contact our sales team for customized solutions.



Effective 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	1.68	1.80	2.03	2.14	2.42	2.53	2.58	2.78	2.89	2.98	3.18	3.31	3.47	3.60	3.74	4.12