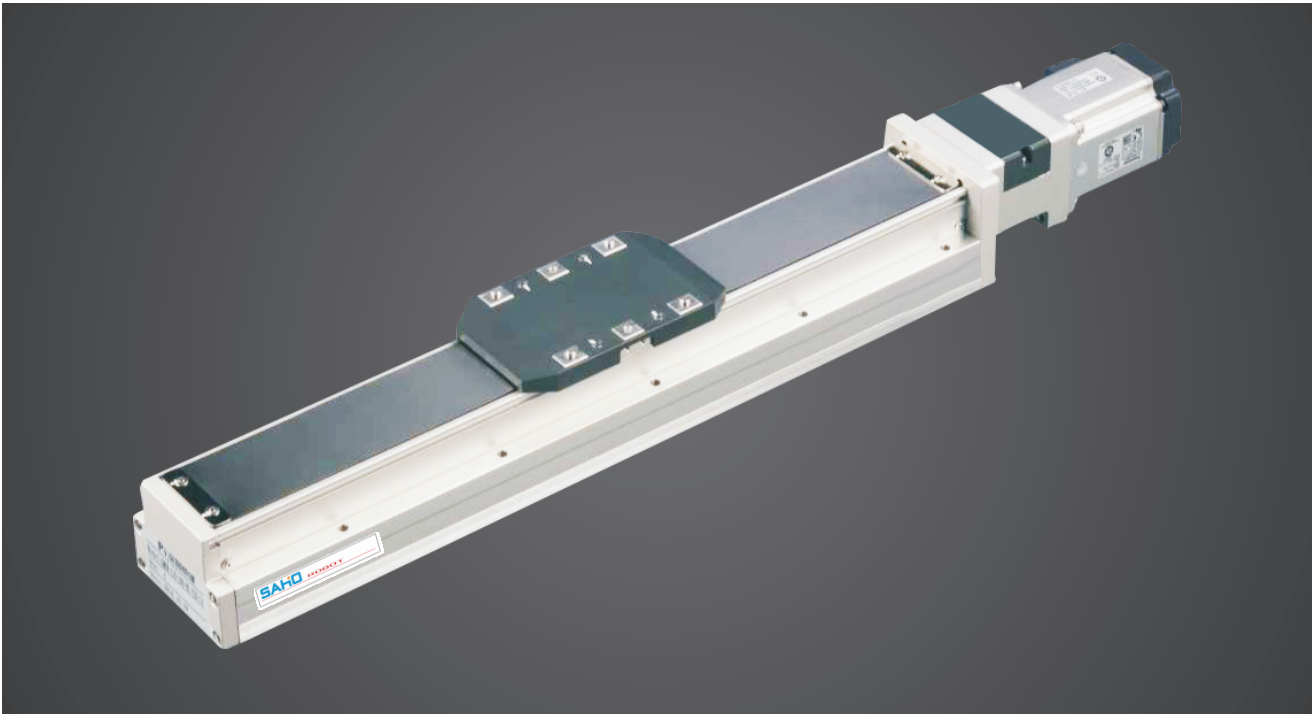


SDH40

Single-Axis



Max. Stroke 500mm

Max. Speed 125mm/s

Motor Capacity 50W

Ball Screw $\phi 8\text{MM}$

Model Number Designation System

SDH40 - P1 - S100 - BC - M05B - C4 - 0001

Model

Stroke

50-500mm
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	50W	B
P	Panasonic	10	-	
Y	Yaskawa	20	-	
T	Delta	40	-	

※ No indication when there is no brake.

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

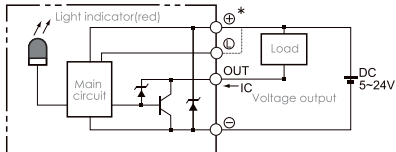
External-mounted
3 1 PC
4 2 PCS
No sensor
5 No sensor

Basic Specifications

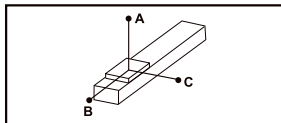
Specifications	Position Repetition Precision		± 0.01	
	Ball Screw Lead		1	2.5
	Max. Speed		50	125
	Max. Handling Weight	Horizontal Use	25	25
		Vertical Use	8	8
	Rated Thrust		849	339
Components	Standard Stroke		50-500mm/50 pitch	
	AC Servo Motor Capacity		50	
	Ball Screw Outer Diameter		C7 ϕ 8	
	Coupling		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)

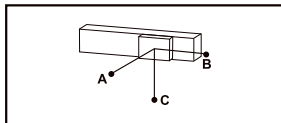


Allowable Load Moment Table



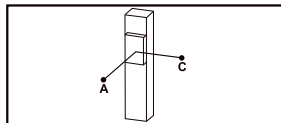
(Unit: mm)

Horizontal Mounting	A	B	C
Lead 1	12kg	720	104
	18kg	430	66
	25kg	322	44
Lead 2.5	15kg	550	69
	20kg	355	49
	25kg	255	37



(Unit: mm)

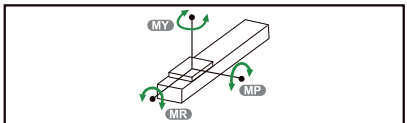
Side Mounting	A	B	C
Lead 1	12kg	94	69
	18kg	56	44
	25kg	34	30
Lead 2.5	15kg	58	47
	20kg	40	34
	25kg	28	25



(Unit: mm)

Vertical Mounting	A	C
Lead 1	4kg	233
	8kg	118
	-	-
Lead 2.5	4kg	205
	8kg	104
	-	-

Horizontal Operation



(Unit: N.m)

MY	79
MP	79
MR	116

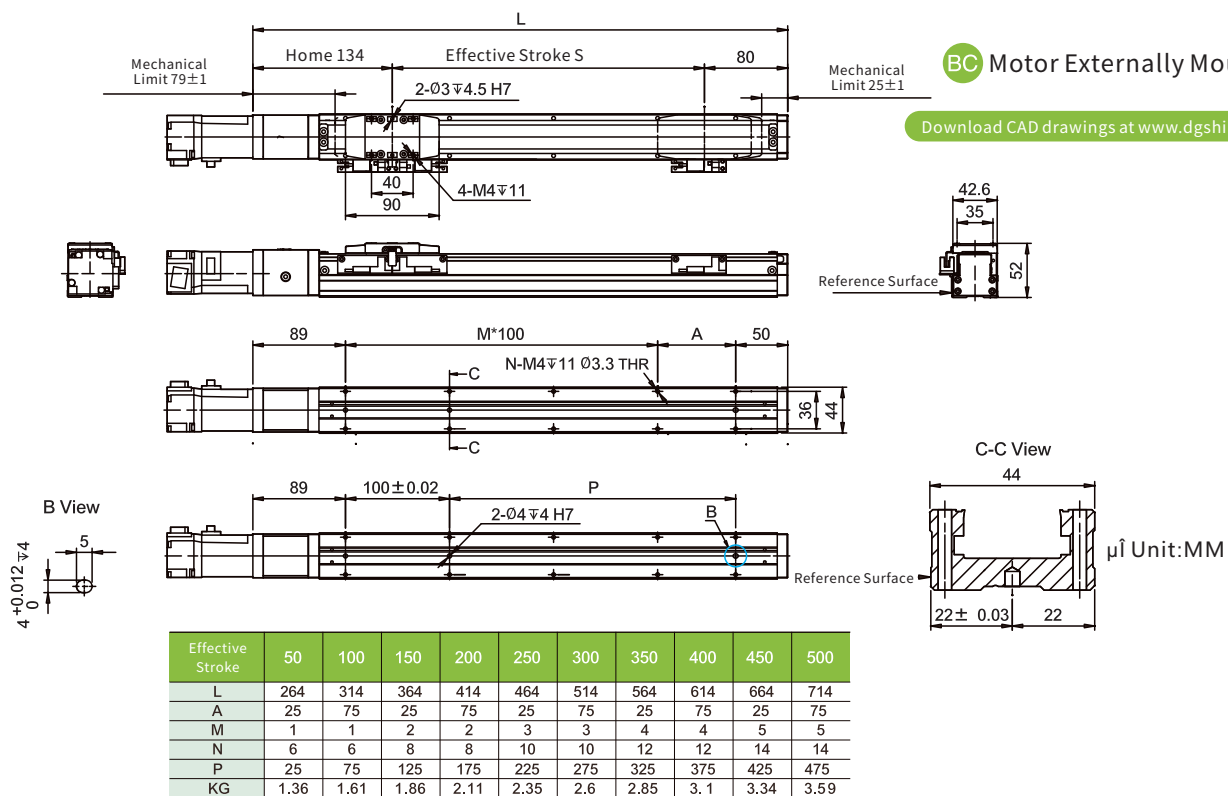
※ The data shown in the torque table represents the center of gravity.
※ Under normal usage compliant with catalog specifications, the guaranteed service life is 10000km.
※ Standard specifications do not apply to inverted installation. For such requirements, please consult our sales team.

List of Servo Motors

Brand	Mark	Brake	Motor Capacity	Supply Voltage	Servo Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	50	220	HG-KR053	MR-J4-10A
		With Brake (Vertical Type)	50	220	HG-KR053B	MR-J4-10A
Panasonic	P	No Brake (Horizontal Type)	50	220	MSMD5A2G1U	MADHT1505
		With Brake (Vertical Type)	50	220	MSMD5A2G1V	MADHT1505
Delta	T	No Brake (Horizontal Type)	50	220	ECMA-C1040FES	ASD-B20121-B
		With Brake (Vertical Type)	50	220	ECMA-C1040FFS	ASD-B20121-B

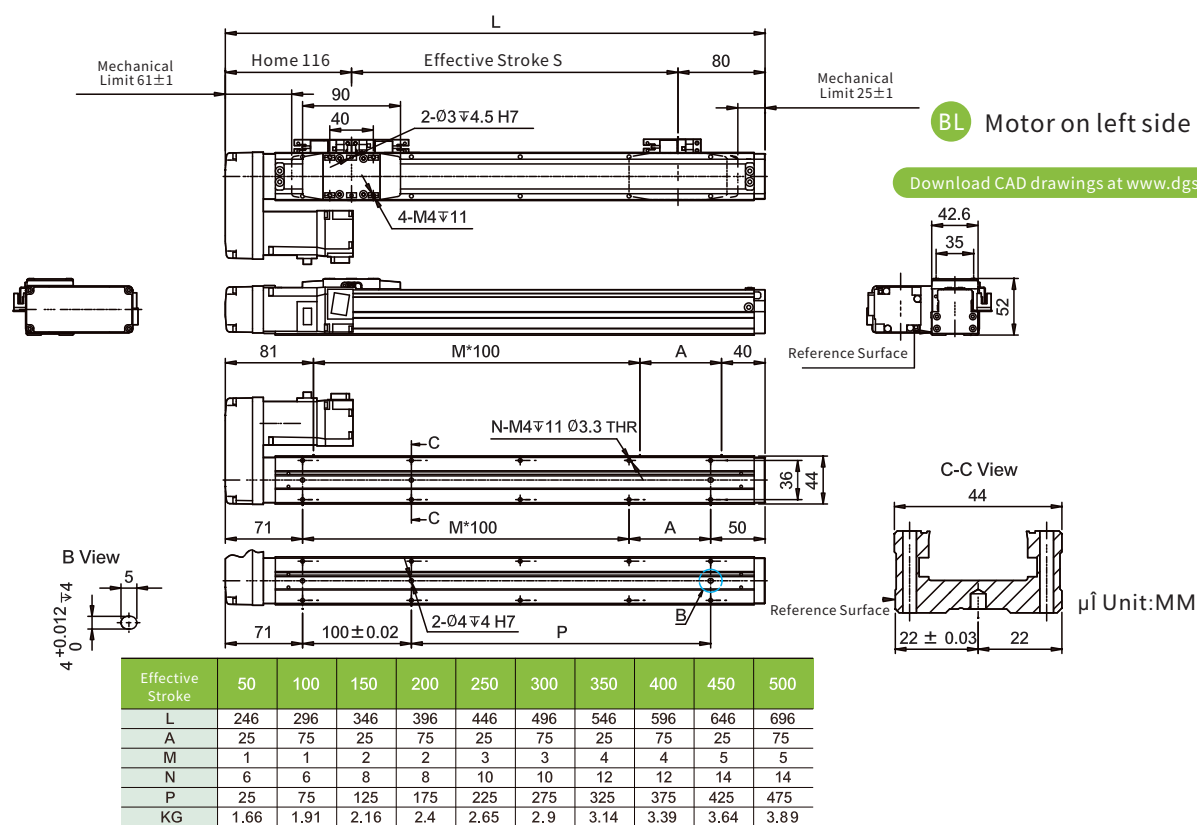
BC Motor Externally Mounted

Download CAD drawings at www.dgshihai.com



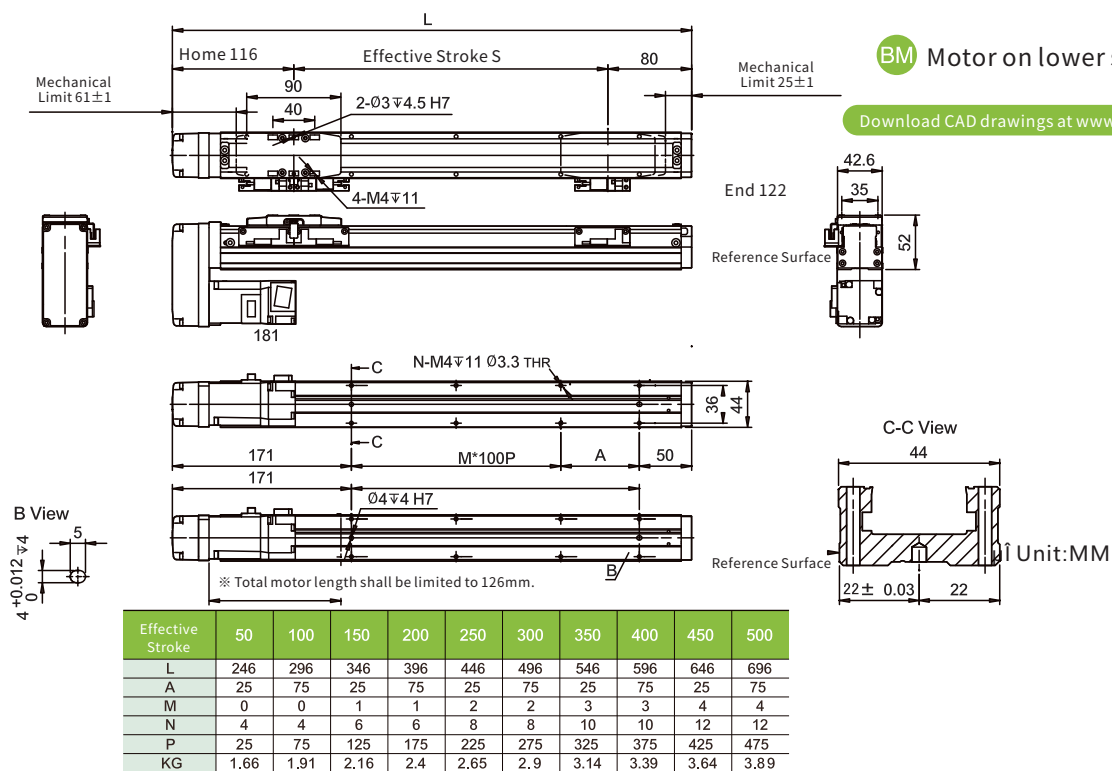
BL Motor on left side

Download CAD drawings at www.dgshihai.com



BM Motor on lower side

Download CAD drawings at www.dgshihai.com



※ 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.

BR Motor on right side

Download CAD drawings at www.dgshihai.com

