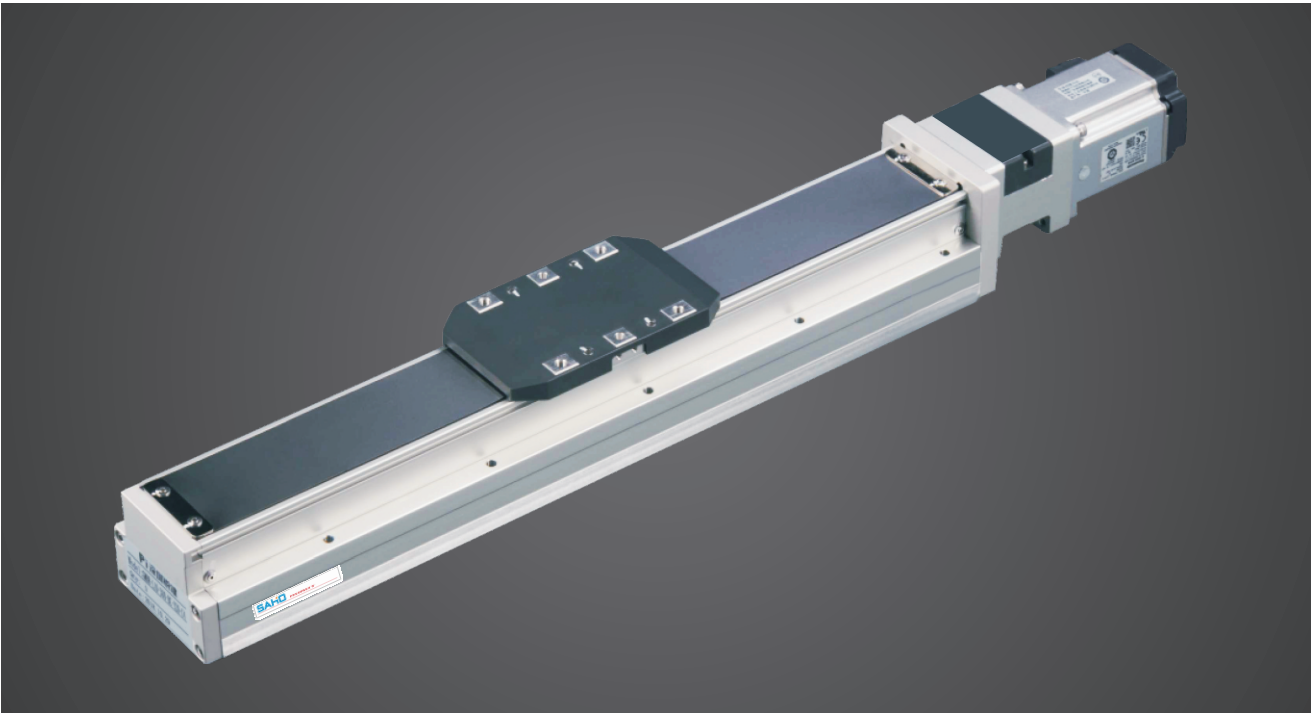


SDH80

Single-Axis



Max. Stroke 1050mm

Max. Speed 1000mm/s

Motor Capacity 200W

Ball Screw $\phi 16\text{MM}$

Model Number Designation System

SDH80 - P10 - S100 - BC - M20B - C4 - 0001

Model

Stroke

50-1050mm
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	-	
Y	Yaskawa	20	200W	
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

Ball Screw Lead

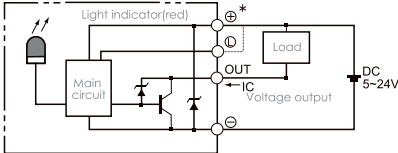
05	5mm
10	10mm
20	20mm

Basic Specifications

Specifications	Position Repetition Precision		±0.01		
	Ball Screw Lead		5	10	20
	Max. Speed		250	500	1000
	Max. Handling Weight	Horizontal Use	50	30	12
		Vertical Use	15	8	2.5
	Rated Thrust		683	341	174
Standard Stroke		50-1050mm/50 pitch			
Components	AC Servo Motor Capacity		200		
	Ball Screw Outer Diameter		C7Φ 16		
	Coupling		10X14/11 ^(註1)		
	Home Sensor	External-mounted	EE-SX674(NPN)		

※ When the stroke exceeds 750, screw deflection may occur. In this case, please reduce the speed.
※ Motor acceleration/deceleration time is set to 0.2 seconds.
Note 1: When using a Panasonic 200W motor, the motor shaft diameter is $\phi 11$. For other brands, the motor shaft diameter is $\phi 14$.

Sensor Wiring (Home & End)



Allowable Load Moment Table

(Unit: mm)

Horizontal Mounting	A	B	C
Lead 5	20kg	1560	153
	35kg	890	81
	50kg	550	53
Lead 10	10kg	1730	286
	20kg	839	136
	30kg	541	86
Lead 20	6kg	1213	403
	9kg	800	264
	12kg	592	194

(Unit: mm)

Side Mounting	A	B	C
Lead 5	20kg	214	153
	35kg	113	81
	50kg	74	53
Lead 10	10kg	370	286
	20kg	176	136
	30kg	112	86
Lead 20	6kg	444	403
	9kg	292	264
	12kg	214	194

(Unit: mm)

Vertical Mounting	A	C
Lead 5	10kg	331
	15kg	220
	-	-
Lead 10	5kg	589
	8kg	368
	-	-
Lead 20	2.5kg	935
	-	-
	-	-

(Unit: N.m)

MY	318
MP	318
MR	626

※ The data shown in the torque table represents the center of gravity.

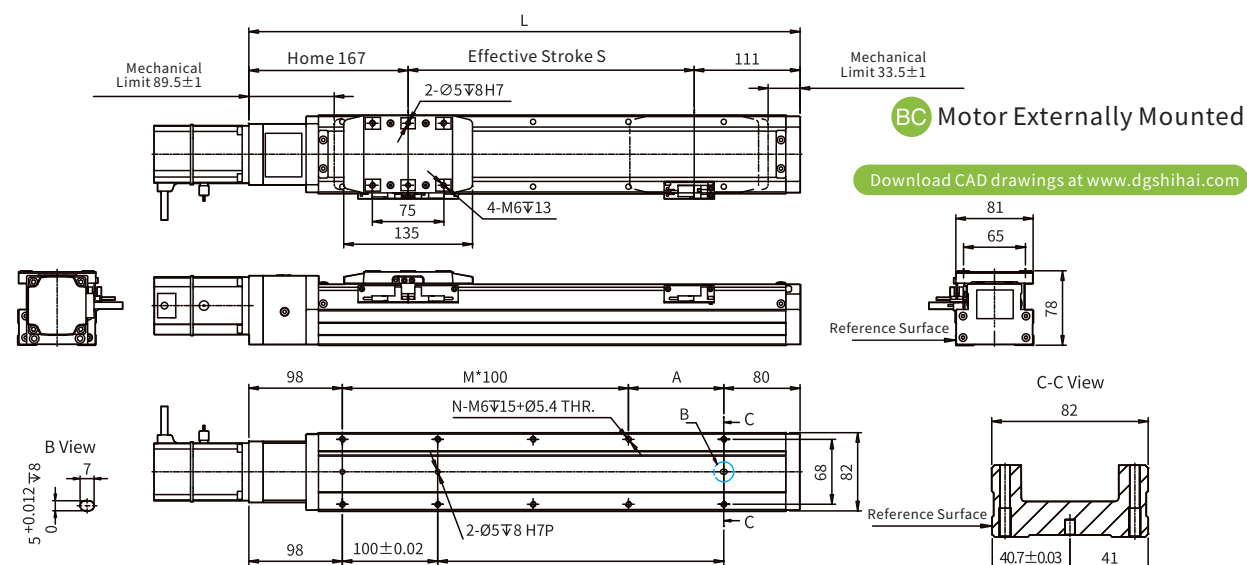
※ Under normal usage compliant with catalog specifications, the guaranteed service life is 10000km.

※ Standard specifications do not apply to inverted installation. For such requirements, please consult our sales team.

※ 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)	200	220	HG-KR23	MR-J4-20A
		With Brake (Vertical Type)	200	220	HG-KR23B	MR-J4-20A
Panasonic	P	No Brake (Horizontal Type)	200	220	MHMD022G1U	MADHT1507
		With Brake (Vertical Type)	200	220	MHMD022G1V	MADHT1507
Delta	T	No Brake (Horizontal Type)	200	220	ECMA-C20602ES	ASD-B20221-B
		With Brake (Vertical Type)	200	220	ECMA-C20602FS	ASD-B20221-B

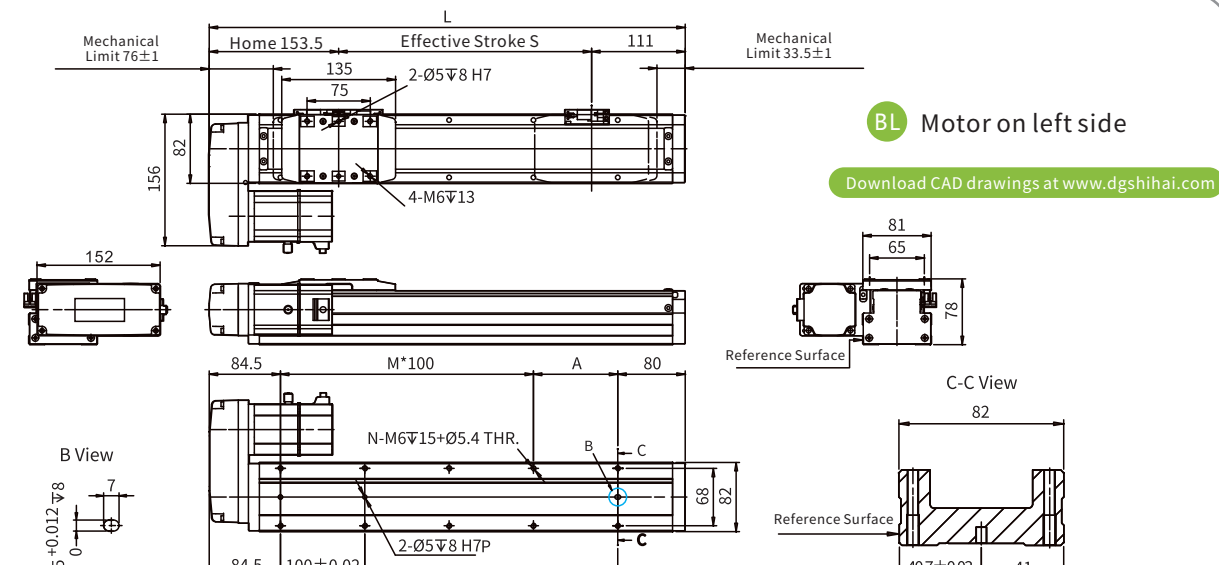


BC Motor Externally Mounted

Download CAD drawings at www.dgshihai.com

Effective Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	328	378	428	478	528	578	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328	1378
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
KG	3.91	4.29	4.70	5.00	5.35	5.68	6.00	6.35	6.64	6.97	7.41	7.71	8.12	8.41	8.65	8.96	9.37	9.62	10.01	10.28	10.70	11.12

Unit: MM

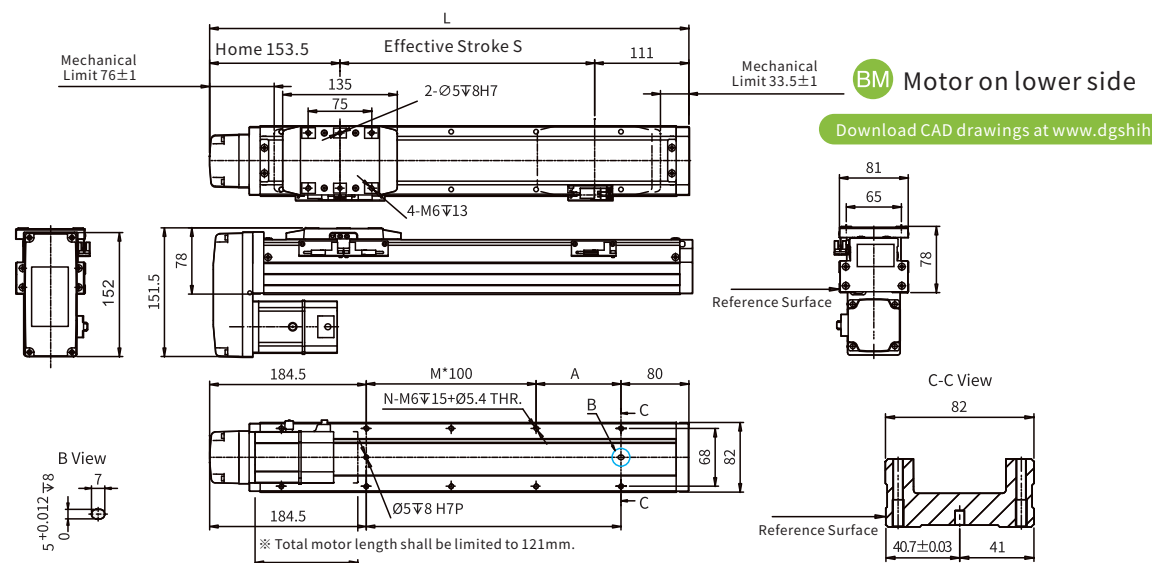


BL Motor on left side

Download CAD drawings at www.dgshihai.com

Effective Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
KG	3.95	4.33	4.74	5.09	5.39	5.72	6.04	6.39	6.68	7.01	7.45	7.75	8.16	8.45	8.69	9.00	9.41	9.66	10.08	10.32	10.74	11.16

Unit: MM



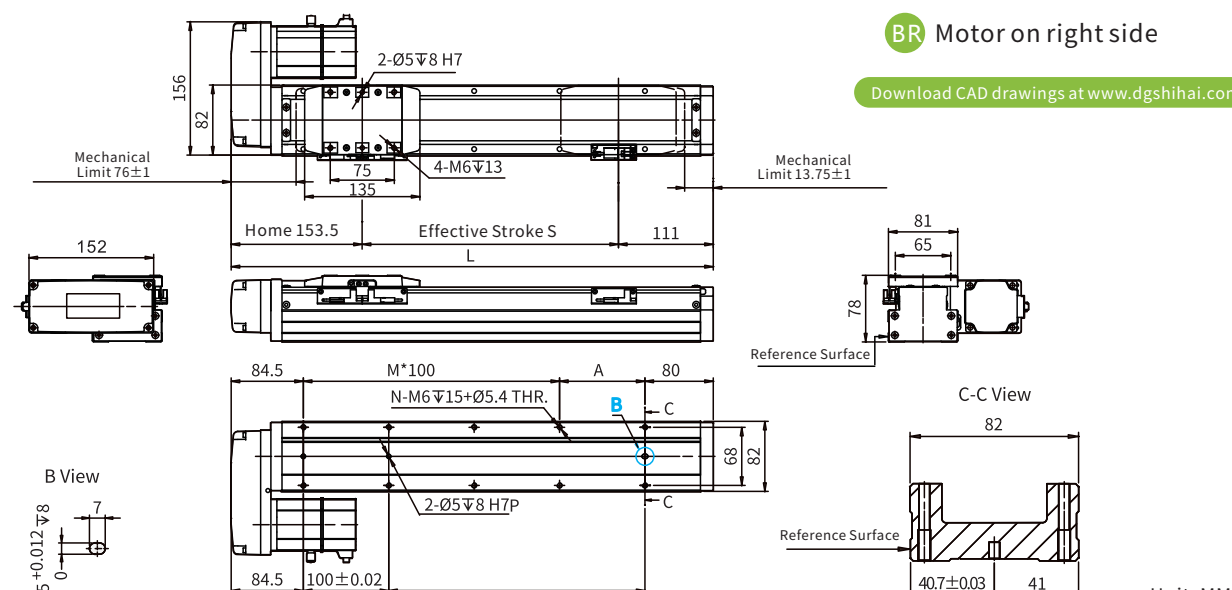
BM Motor on lower side

Download CAD drawings at www.dgshihai.com

Effective Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	4	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
KG	3.95	4.33	4.74	5.09	5.39	5.72	6.04	6.39	6.68	7.01	7.45	7.75	8.16	8.45	8.69	9.00	9.41	9.66	10.08	10.32	10.74	11.16

Unit: MM

※ 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

Effective Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
KG	3.95	4.33	4.74	5.09	5.39	5.72	6.04	6.39	6.68	7.01	7.45	7.75	8.16	8.45	8.69	9.00	9.41	9.66	10.08	10.32	10.74	11.16

Unit: MM