

SDM120 Series

▶ General Environments / Ball Screw Drive Type



Max. Stroke 1050mm

Max. Speed 1000mm/s

Motor Capacity 400W

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

LinearGuideRail .15*12.5-2 PCS

Model Number Designation System

SDM120- P05 -S100 - M - C7 - 400W - BJ

Model

Stroke

Lead

Motor Position

Ball Screw Grade

Home Sensor Fixing Location

Slide Block Length

100-1050mm

50mm pitch

P05 05mm

P10 10mm

P16 16mm

P20 20mm

M Internally mounted & direct coupling

BC Externally mounted & direct coupling

BM Motor on lower side

BR Motor on right side

BL Motor on left side

C7 C7

C5 C5

1 400W

H Stepper motor

BJ Standard slide block

DJ Customized slide block

Product Catalog

Basic Specifications

Performance	Position Repetition Precision		±0.01/±0.02			
	Ball Screw Lead		5	10	16	20
	Max. Speed		250	500	800	1000
	Max. Handling Weight	Horizontal Use	50	30	25	25
		Horizontal Use	30	20	15	15
	Standard Stroke		100~1050mm/50 pitch			
Components	AC Servo Motor Capacity		750			
	Ball Screw Outer Diameter		C7 Ø16			
	High-rigidity Linear Guide		15×12.5			
	Coupling		LK5-C39-1410WP			
	Home Sensor	External-mounted	FC-SPX307Z(NPN)			
			LU674-5NA(NPN)			

Allowable Load Moment Table

Horizontal Operation

Horizontal Mounting

Side Mounting

Vertical Mounting

Lead 5

Lead 10

Lead 16

Lead 20

A

C

Horizontal Operation

List of Shaft Directions

BC

BL

BR

BM

Externally mounted & direct coupling

Motor on left side

Motor on right side

Motor on lower side

SDM120 Series

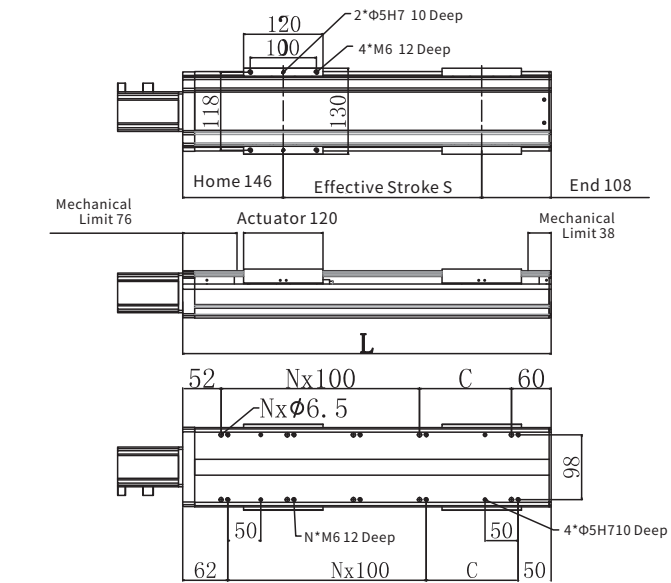
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Product Catalog

BC Motor Externally Mounted

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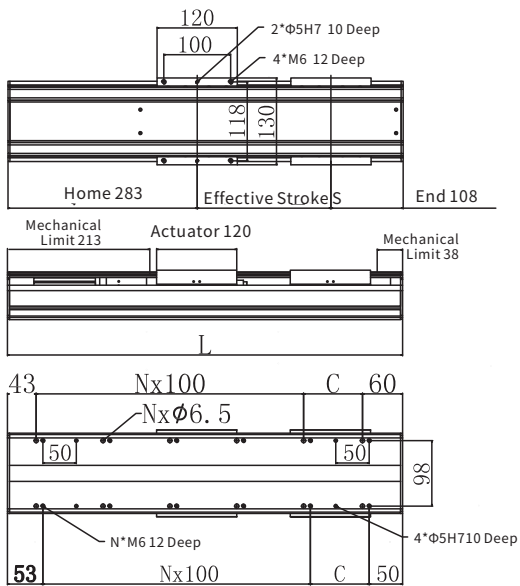


Unit: MM

Effective Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	354	404	454	504	554	604	654	704	754	804	854	904	954	1004	1054	1104	1154	1204	1254	1304
C	142	92	142	92	142	92	142	92	142	92	142	92	142	92	142	92	142	92	142	92
N	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
Weight (KG)	6.8	7.2	7.6	8	8.4	8.8	9.2	9.6	10	10.4	10.8	11.2	11.6	12	12.4	12.8	13.2	13.6	14	14.4

M Direct Motor Coupling

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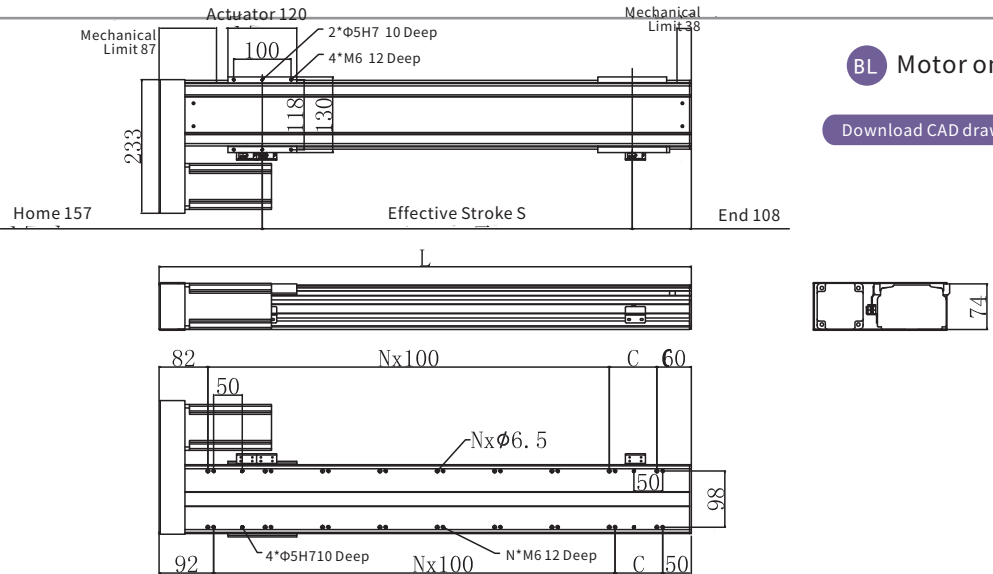


Unit: MM

Effective Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	491	541	591	641	691	741	791	841	891	941	991	1041	1091	1141	1191	1241	1291	1341	1391	1441
C	88	138	88	138	88	138	88	138	88	138	88	63	88	138	88	138	88	138	88	138
N	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12
Weight (KG)	7	7.4	7.8	8.2	8.6	9	9.4	9.8	10.2	10.6	11	11.4	11.8	12.2	12.6	13	13.4	13.8	14.2	14.6

BL Motor on Left Side

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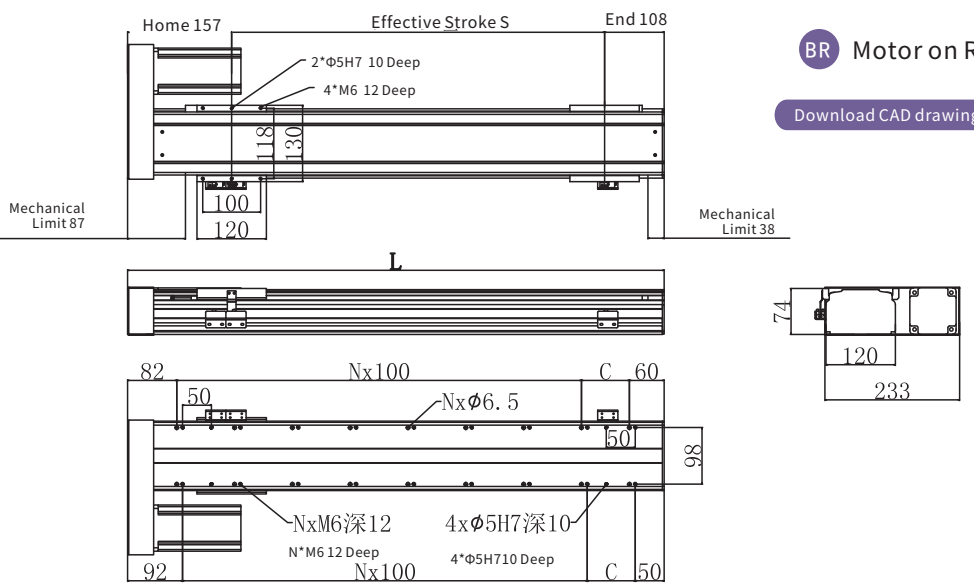


Unit: MM

Effective Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	365	415	465	515	565	615	665	715	765	815	865	915	965	1015	1065	1115	1165	1215	1265	1315
C	123	73	123	73	123	73	123	73	123	73	123	73	123	73	123	73	123	73	123	73
N	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
Weight (KG)	6.8	7.2	7.6	8	8.4	8.8	9.2	9.6	10	10.4	10.8	11.2	11.6	12	12.4	12.8	13.2	13.6	14	14.4

BR Motor on Right Side

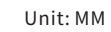
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Unit: MM

Effective Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	365	415	465	515	565	615	665	715	765	815	865	915	965	1015	1065	1115	1165	1215	1265	1315
C	123	73	123	73	123	73	123	73	123	73	123	73	123	73	123	73	123	73	123	73
N	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
Weight (KG)	6.8	7.2	7.6	8	8.4	8.8	9.2	9.6	10	10.4	10.8	11.2	11.6	12	12.4	12.8	13.2	13.6	14	14.4

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