



Max. Stroke

1050mm

Max. Speed

1000mm/s

Motor Capacity

200W

Ball Screw

φ16MM

LinearGuideRail

12*7.5-2 PCS

Model Number Designation System

SDM100 - P05 - S500 - M - C7 -200W - BJ

Model

Stroke

Lead

Motor Position

Ball Screw Grade

Home Sensor Fixing Location

Slide Block Length

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

200W

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	30	25	20	18
		Horizontal Use	15	10	8	8
	Standard Stroke		100~1050mm/50 pitch			
Components	AC Servo Motor Capacity		400			
	Ball Screw Outer Diameter		C7 Ø16			
	High-rigidity Linear Guide		12×7.5			
	Coupling		LK5-C34-1410WP			
	Home Sensor	External-mounted	FC-SPX303Z(NPN)			
LU672-5NA(NPN)						

Allowable Load Moment Table

Horizontal Operation

Horizontal Mounting

Lead 5

Lead 10

Lead 16

Lead 20

A

C

20kg	500	200
30kg	400	300
-	-	-
10kg	500	500
15kg	350	300
25kg	180	200
5kg	190	300
10kg	100	200
20kg	50	80
5kg	190	300
10kg	100	200
20kg	50	80

Side Mounting

Lead 5

Lead 10

Lead 16

Lead 20

A

C

15kg	300	600
25kg	200	400
30kg	100	300
10kg	250	450
15kg	150	330
25kg	60	160
5kg	200	300
10kg	100	200
20kg	50	100
5kg	200	300
10kg	100	200
20kg	50	100

Vertical Mounting

Lead 5

Lead 10

Lead 16

Lead 20

A

C

10kg	100	145
15kg	50	75
20kg	25	60
5kg	100	130
10kg	50	65
15kg	30	55
5kg	80	90
10kg	60	80
15kg	40	70
5kg	80	90
10kg	60	80
15kg	40	70

Horizontal Operation

MY	150(N.m)
MP	150(N.m)
MR	130(N.m)

List of Shaft Directions

BC

Externally mounted & direct coupling

BL

Motor on left side

BR

Motor on right side

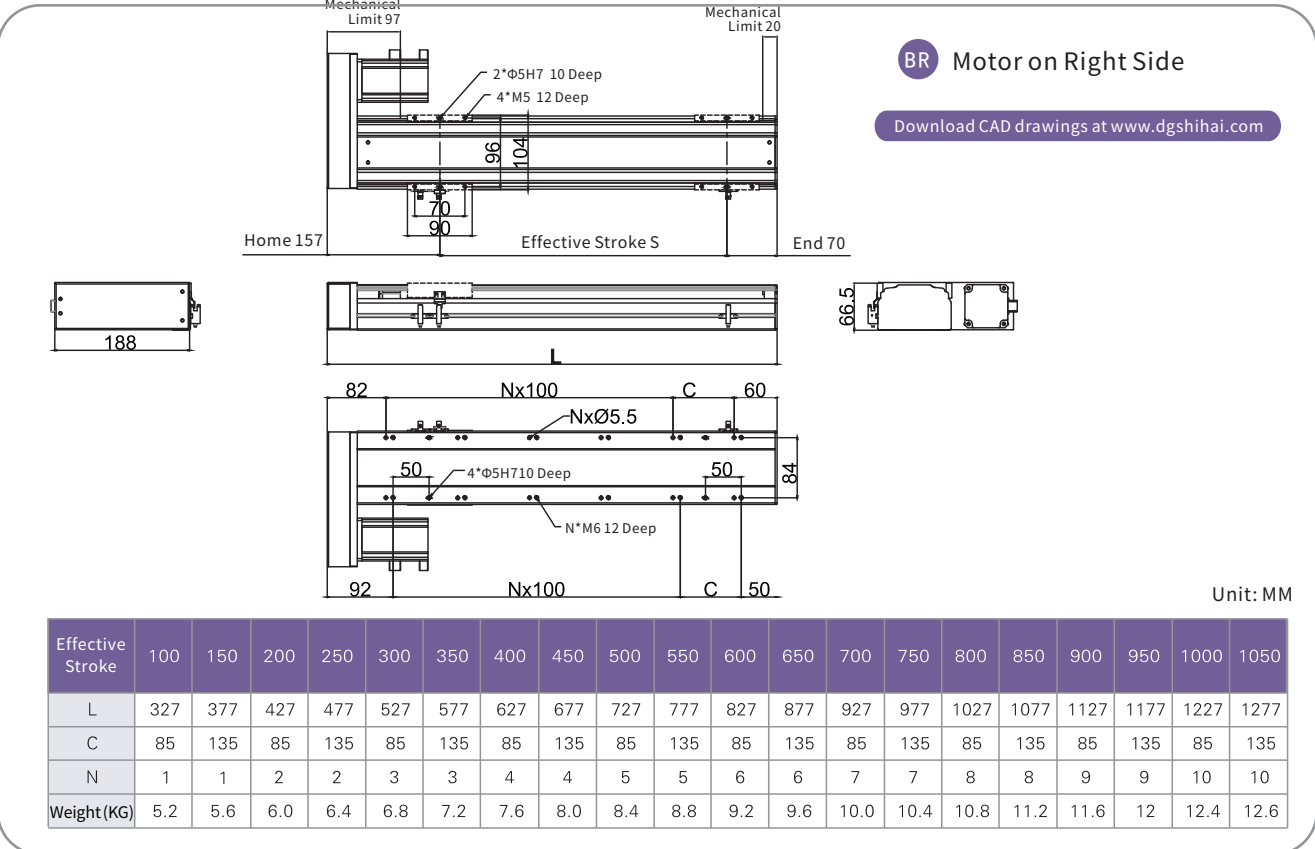
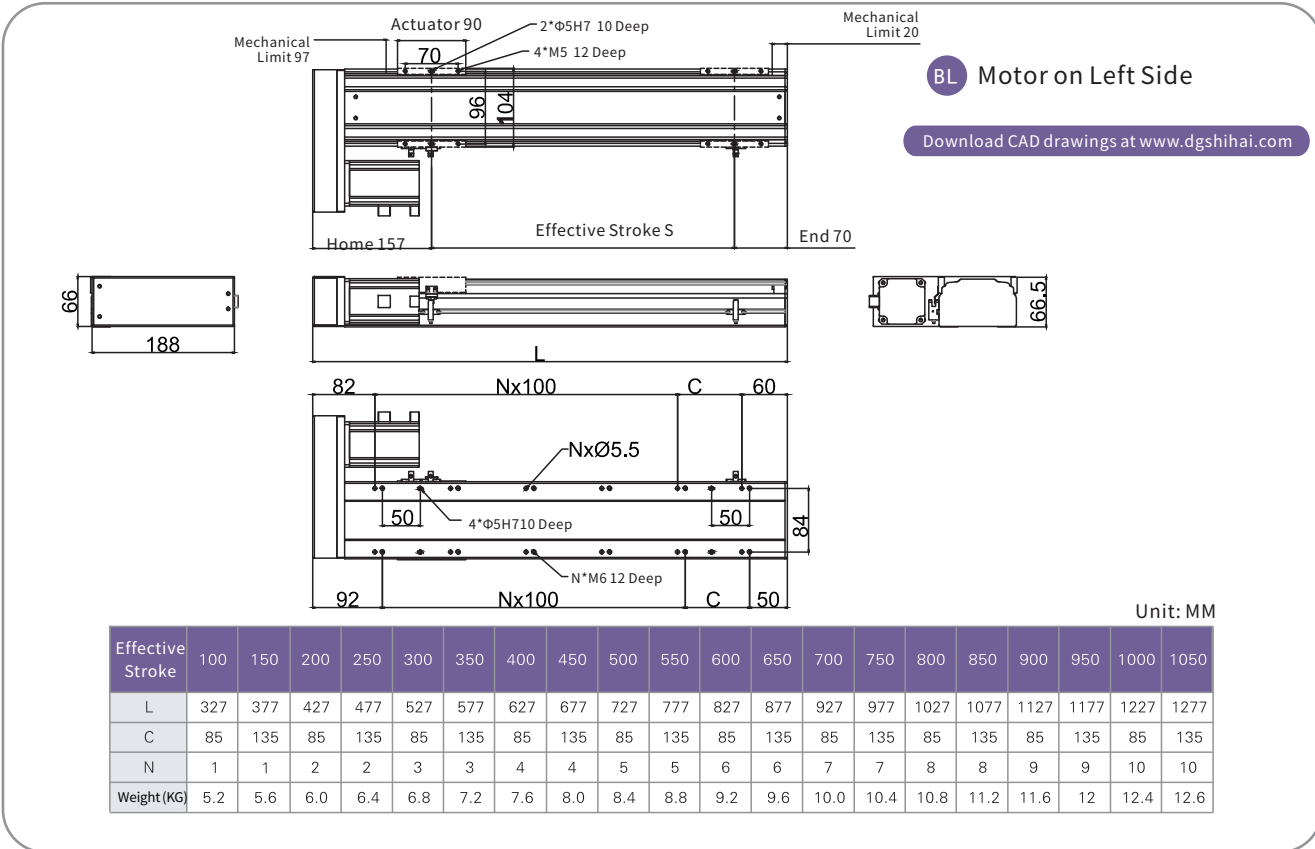
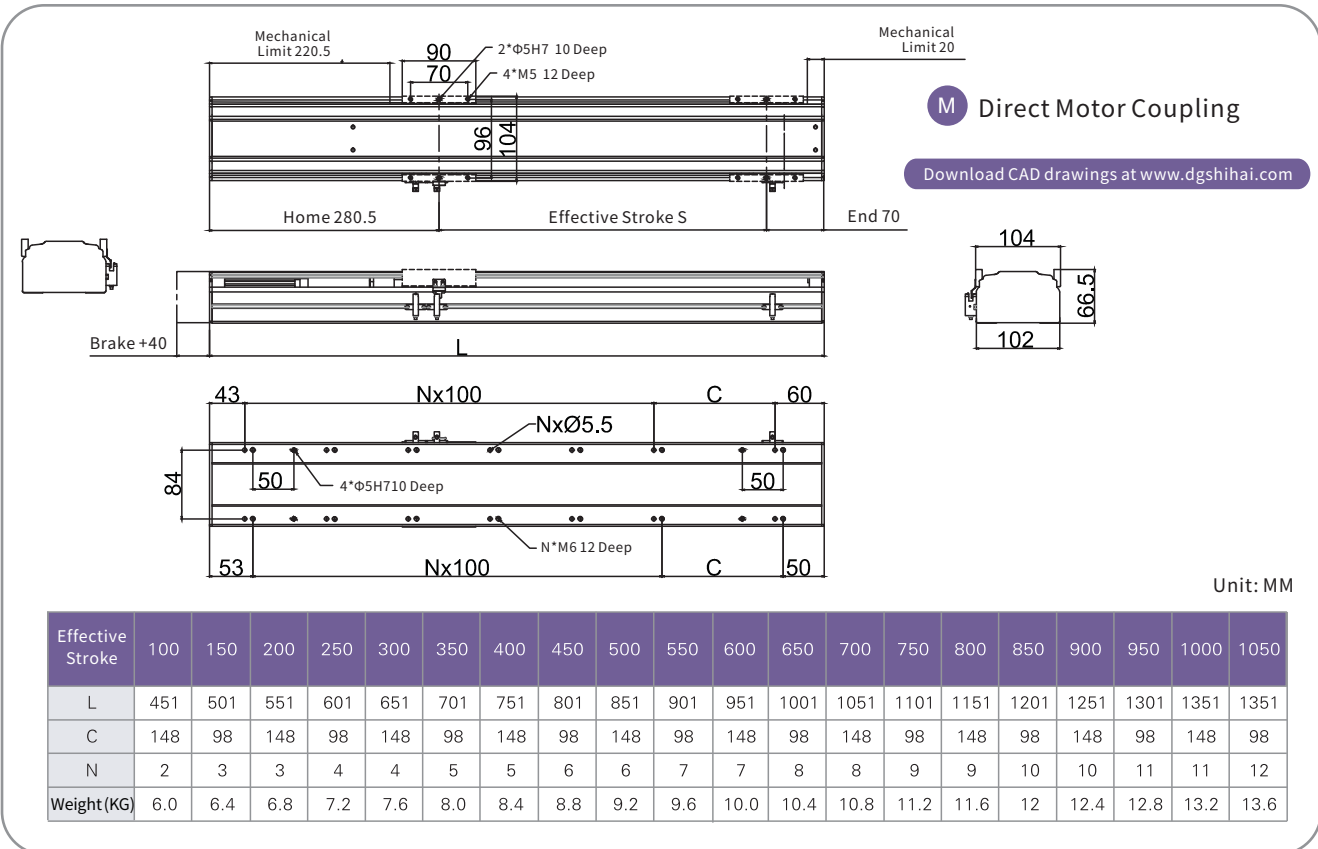
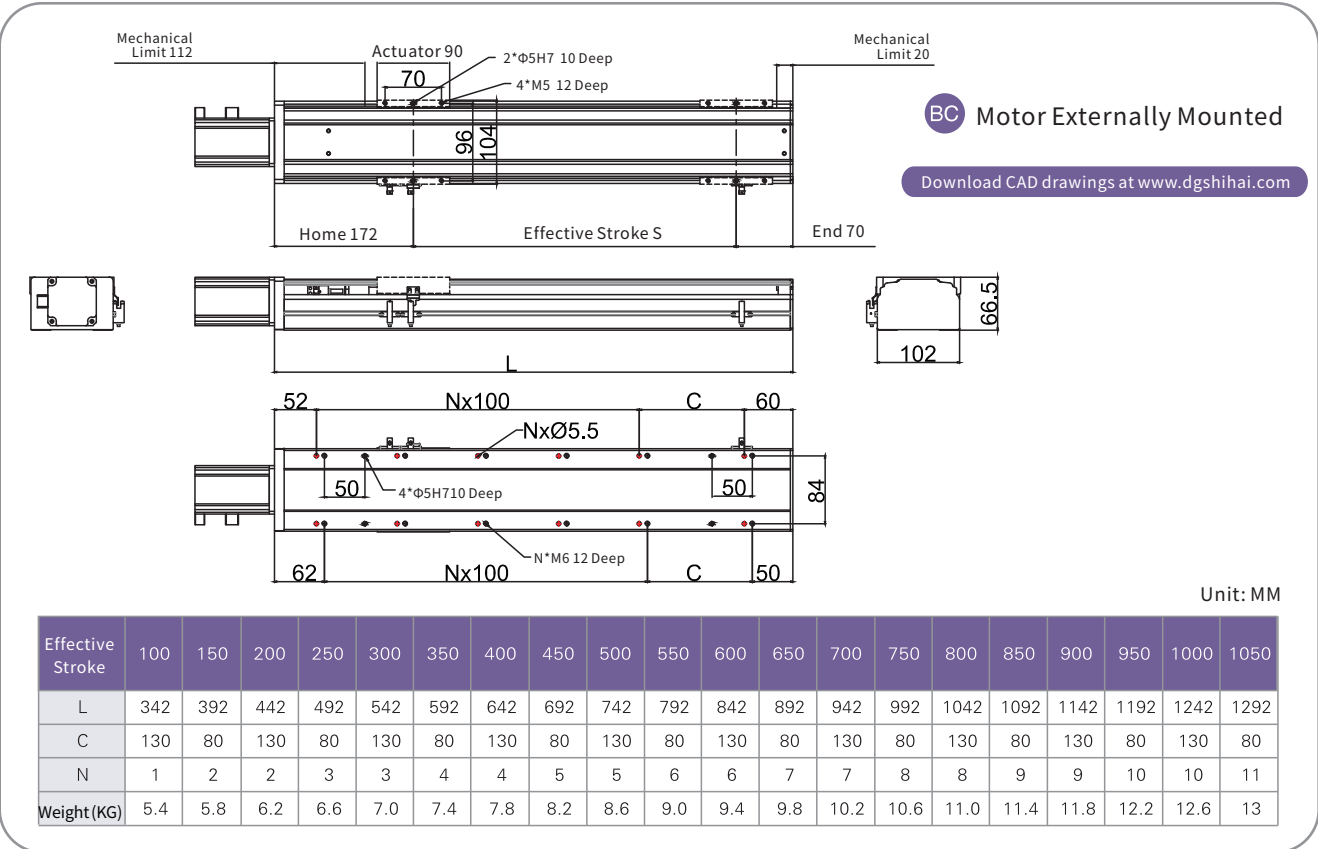
BM

Motor on lower side

P131

P132

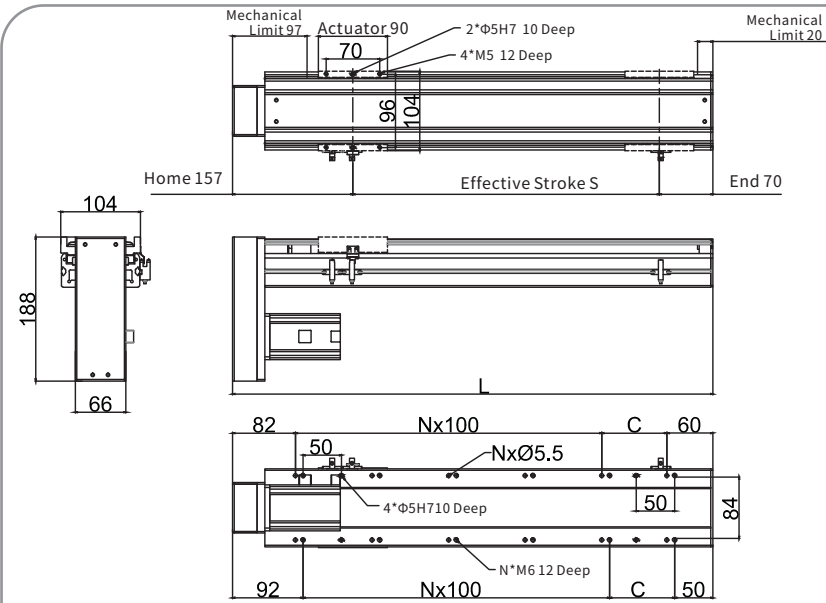
Product Catalog



SDM100 Series

▶ General Environments / Ball Screw Drive Type

Product Catalog



Technical drawing of the SDM100 actuator showing top, side, and detail views with dimensions.

Top View Dimensions: Mechanical Limit 97, Actuator 90, 2*Φ5H7 10 Deep, 4*M5 12 Deep, Home 157, Effective Stroke S, End 70, 104, 96, 104.

Side View Dimensions: 188, 66, 82, 50, Nx100, C, 60, 50, 84, 92, Nx100, C, 50.

Detail View Dimensions: 66.5.

Motor on Lower Side (BM)

Download CAD drawings at www.dgshihai.com

单位 Unit:MM

有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	327	377	427	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277
C	85	135	85	135	85	135	85	135	85	135	85	135	85	135	85	135	85	135	85	135
N	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
重量(KG)	5.2	5.6	6.0	6.4	6.8	7.2	7.6	8.0	8.4	8.8	9.2	9.6	10.0	10.4	10.8	11.2	11.6	12	12.4	12.6