

SDM175 Series

▶ General Environments / Ball Screw Drive Type



Max. Stroke 2000mm

Max. Speed 1300mm/s

Motor Capacity 750W

Ball Screw $\varnothing 25\text{MM}$

LinearGuideRail 20*18-2 PCS

Model Number Designation System

SDM175 - P05- S100 - M - C7 - 750W - BJ

Model

Stroke

Lead

Motor Position

Ball Screw Grade

Home Sensor Fixing Location

Slide Block Length

P05	05mm
P10	10mm
P25	25mm

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	750W
H	Stepper motor

BJ	Standard slide block
DJ	Customized slide block



General Environments / Ball Screw Drive Type

Product Catalog

Basic Specifications

Performance	Position Repetition Precision		$\pm 0.01/\pm 0.02$			
	Ball Screw Lead		5	10	25	-
	Max. Speed		250	500	1250	-
	Max. Handling Weight	Horizontal Use	80	60	50	-
		Horizontal Use	45	35	30	-
Components	Standard Stroke		100~1250mm/50 pitch			
	AC Servo Motor Capacity		1000			
	Ball Screw Outer Diameter		C7 $\varnothing 25$			
	High-rigidity Linear Guide		20×18			
	Coupling		LK5-C44-1915WP			
	Home Sensor	External-mounted	FC-SPX307Z(NPN)			
			LU674-5NA(NPN)			

Allowable Load Moment Table

Horizontal Operation

(Unit: mm)

(Unit: mm)

(Unit: mm)

Horizontal Operation (Unit: N.m)

Horizontal Mounting		A	C
Lead 5	60kg	900	450
	70kg	800	400
	150kg	700	350
Lead 10	50kg	900	450
	60kg	800	400
	150kg	700	350
Lead 20	30kg	900	450
	40kg	800	400
	150kg	700	350

Side Mounting		A	C
Lead 5	60kg	800	1200
	70kg	700	1100
	80kg	600	1000
Lead 10	50kg	800	1200
	60kg	700	1100
	70kg	600	1000
Lead 20	30kg	800	1200
	40kg	700	1100
	50kg	600	1000

Vertical Mounting		A	C
Lead 5	30kg	600	500
	50kg	500	400
	80kg	400	300
Lead 10	25kg	600	500
	50kg	500	400
	60kg	400	300
Lead 20	30kg	600	500
	40kg	500	400
	50kg	400	300

MY	1500(N.m)
MP	1500(N.m)
MR	1300(N.m)

List of Shaft Directions

BC

Externally mounted & direct coupling

BL

Motor on left side

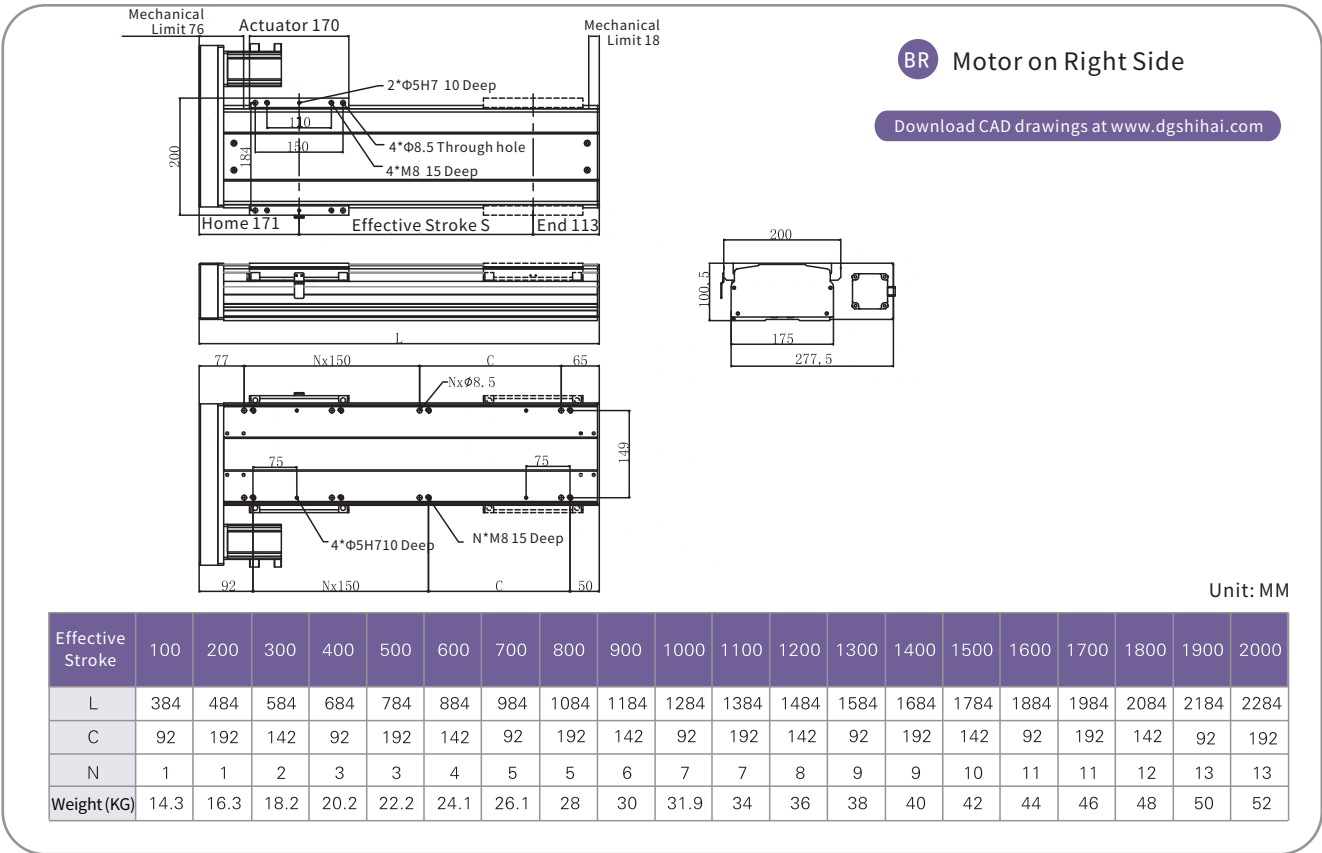
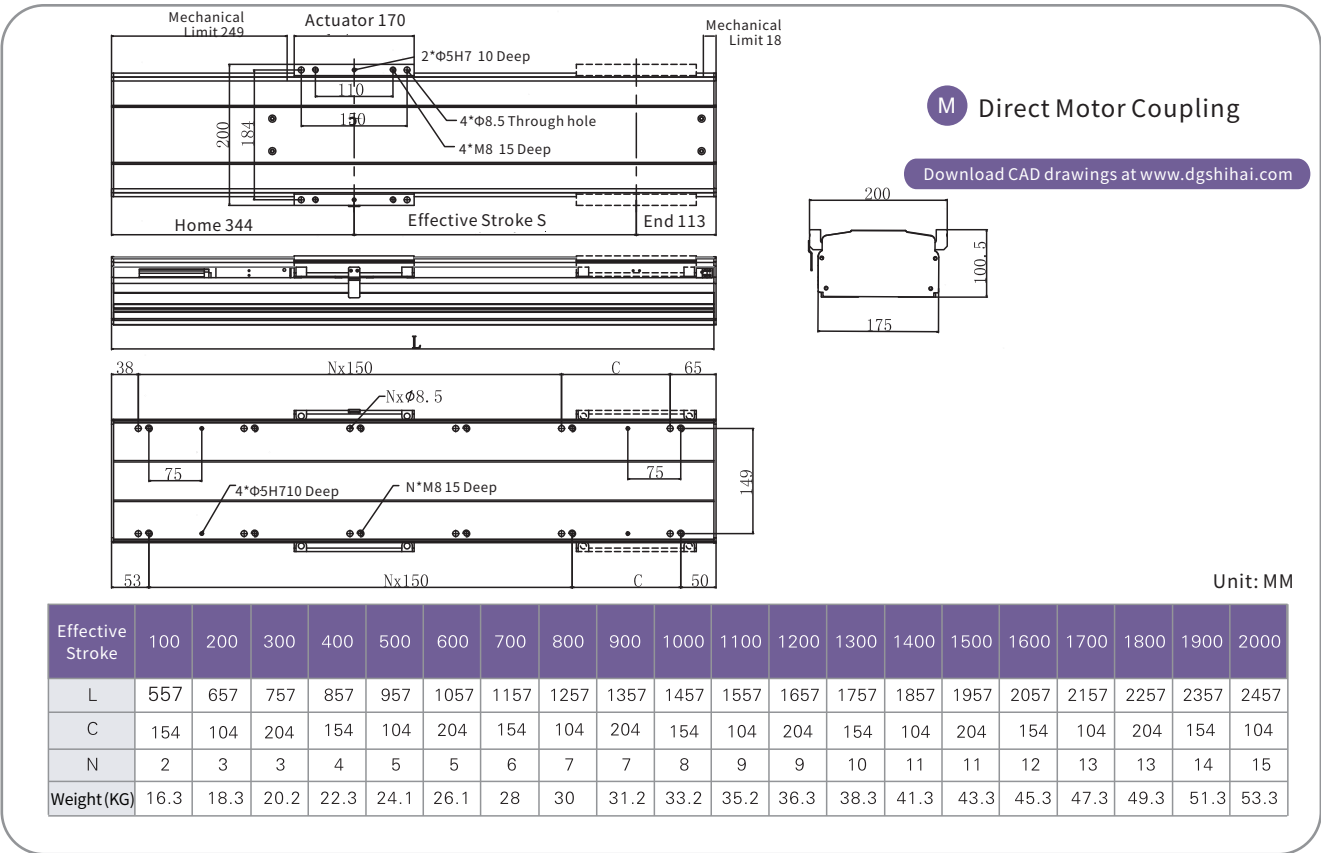
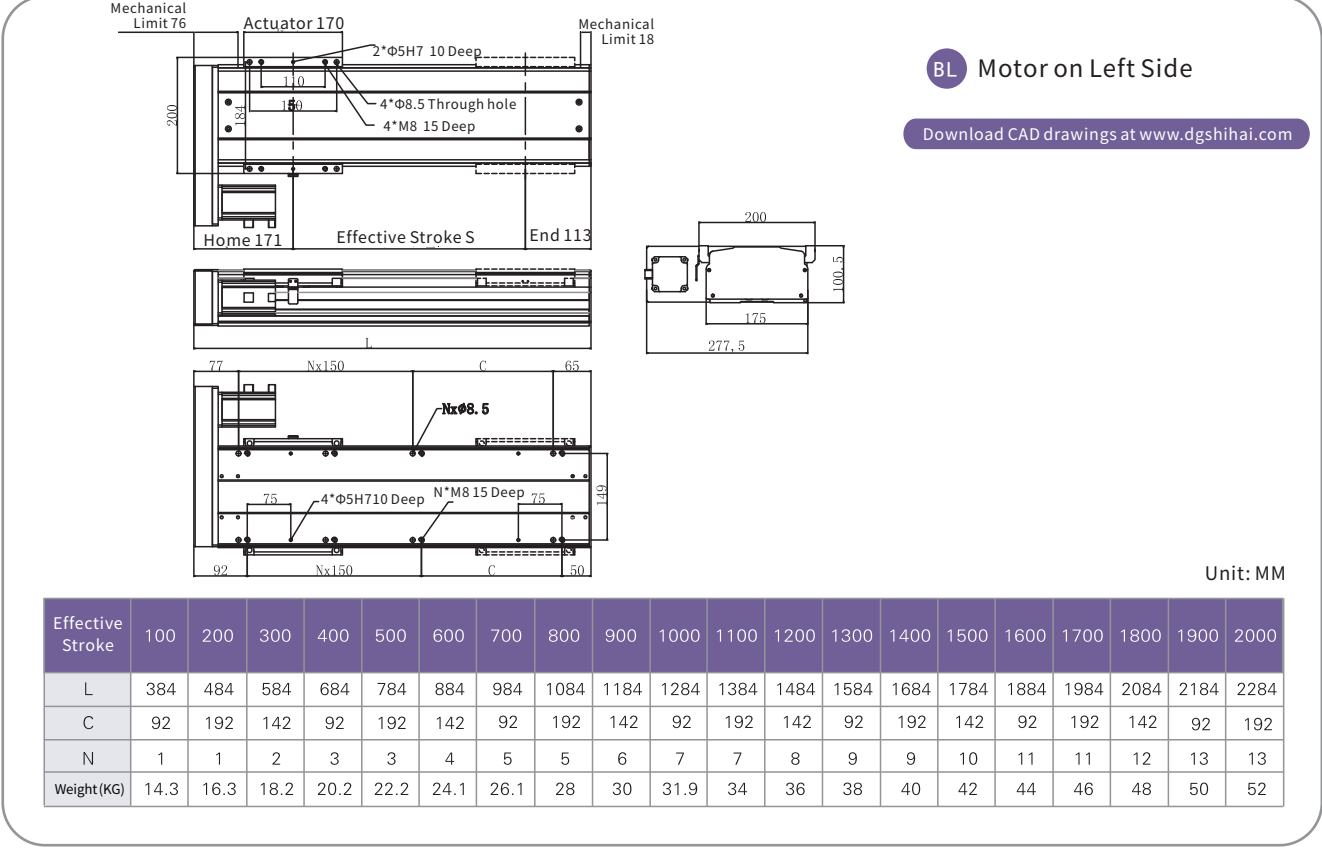
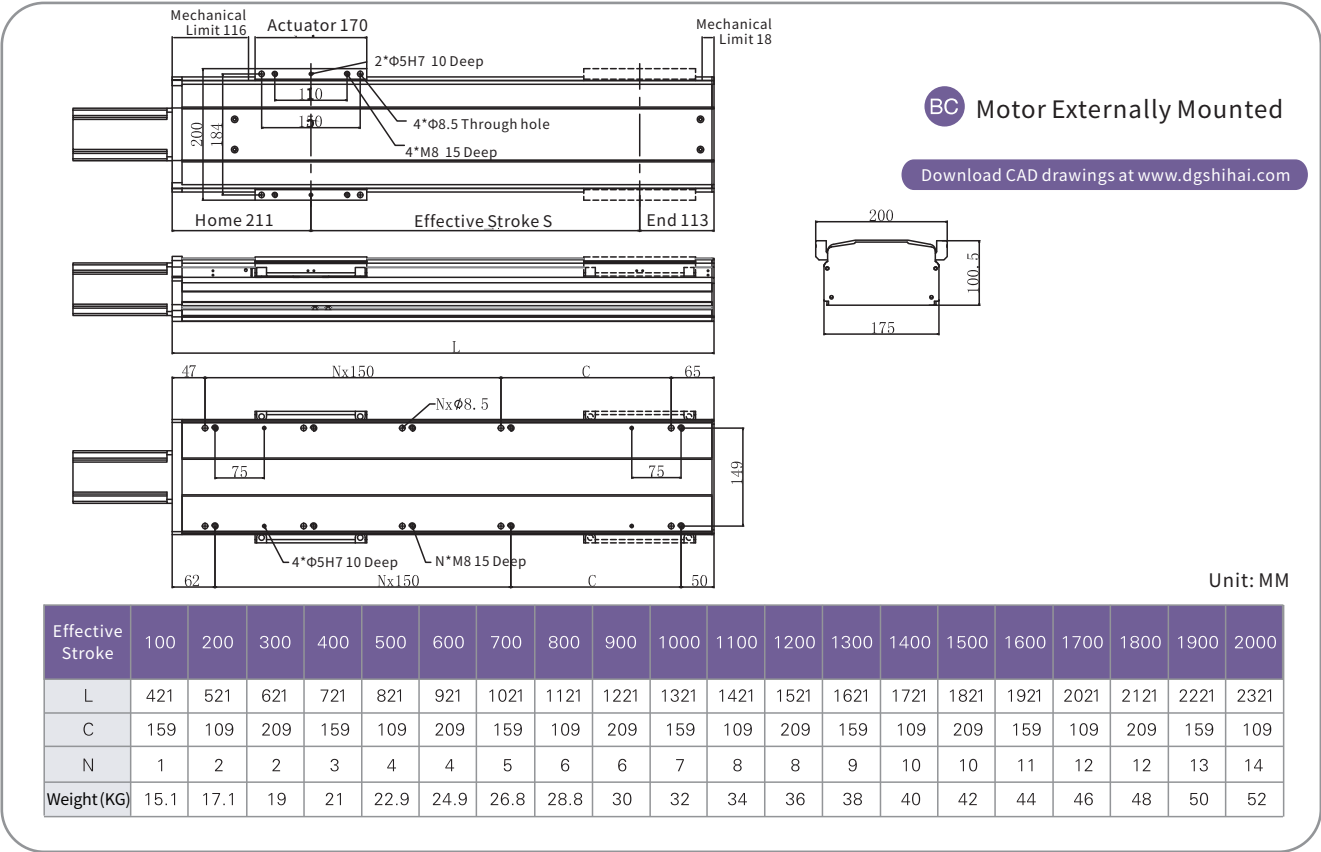
BR

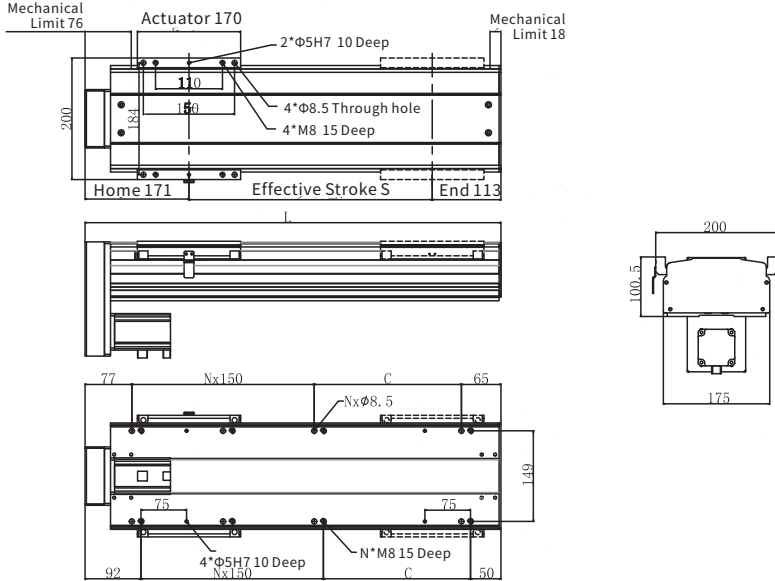
Motor on right side

BM

Motor on lower side

Product Catalog





Actuator 170

Mechanical Limit 76

Mechanical Limit 18

Home 171

Effective Stroke S

End 113

2*Φ5H7 10 Deep

4*Φ8.5 Through hole

4*M8 15 Deep

BM Motor on Lower Side

Download CAD drawings at www.dgshihai.com

Unit: MM

Effective Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	384	484	584	684	784	884	984	1084	1184	1284	1384	1484	1584	1684	1784	1884	1984	2084	2184	2284
C	92	192	142	92	192	142	92	192	142	92	192	142	92	192	142	92	192	142	92	192
N	1	1	2	3	3	4	5	5	6	7	7	8	9	9	10	11	11	12	13	13
Weight (KG)	14.3	16.3	18.2	20.2	22.2	24.1	26.1	28	30	31.9	34	36	38	40	42	44	46	48	50	52