

SDM270 Series

General Environments / Ball Screw Drive Type



Max. Stroke2500mm

Max. Speed2000mm/s

Motor Capacity1500W

Ball Screwφ 40MM

LinearGuideRail25*8-2 PCS

Model Number Designation System

SDM270 - P10 - S500 - M - C7-1000W - BJ

Model

Stroke

Lead

Motor Position

Ball Screw Grade

Home Sensor Fixing Location

Slide Block Length

P05	05mm
P10	10mm
P20	20mm
P32	32mm

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	1000W
2	1500W
H	Stepper motor

BJ	Standard slide block
DJ	Customized slide block



General Environments / Ball Screw Drive Type

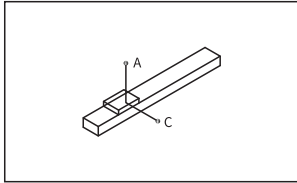
Product Catalog

Basic Specifications

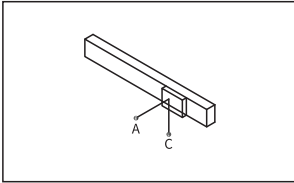
Performance	Position Repetition Precision		±0.01/±0.02			
	Ball Screw Lead		10	20	30	40
	Max. Speed		250	500	1250	1800
	Max. Handling Weight	Horizontal Use	200	180	160	150
		Horizontal Use	150	130	110	100
Components	Standard Stroke		100~2500mm/50 pitch			
	AC Servo Motor Capacity		1500			
	Ball Screw Outer Diameter		C7 Ø 40			
	High-rigidity Linear Guide		25×18			
	Coupling		LK5-C56-2022WP			
	Home Sensor	External-mounted	FC-SPX307Z(NPN)			
			LU674-5NA(NPN)			

100~2500mm/50间隔

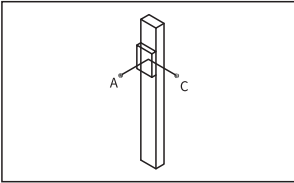
Allowable Load Moment Table



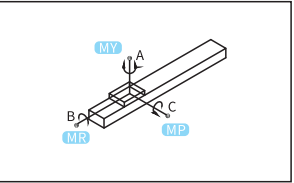
(Unit: mm)



(Unit: mm)



(Unit: mm)



Horizontal Operation (Unit: N.m)

Horizontal Mounting		A	C
Lead 5	150kg	1200	700
	180kg	1000	600
	300kg	800	500
Lead 10	130kg	1200	700
	150kg	1000	600
	300kg	800	500
Lead 25	100kg	1200	700
	120kg	1000	600
	300kg	800	500
Lead 32	100kg	1200	700
	120kg	1000	600
	300kg	800	500

Side Mounting		A	C
Lead 5	100kg	1000	1400
	130kg	700	1200
	180kg	700	1000
Lead 10	90kg	1000	1400
	120kg	800	1200
	170kg	700	1000
Lead 25	80kg	1000	1400
	100kg	800	1200
	150kg	700	1000
Lead 32	80kg	1000	1400
	100kg	800	1200
	150kg	700	1000

Vertical Mounting		A	C
Lead 5	100kg	1100	900
	130kg	1000	800
	170kg	900	700
Lead 10	90kg	1100	900
	110kg	1000	800
	150kg	900	700
Lead 25	80kg	1100	900
	100kg	1000	800
	130kg	900	700
Lead 32	80kg	1100	900
	100kg	1000	800
	130kg	900	700

MY	3000(N.m)
MP	3000(N.m)
MR	2500(N.m)

List of Shaft Directions

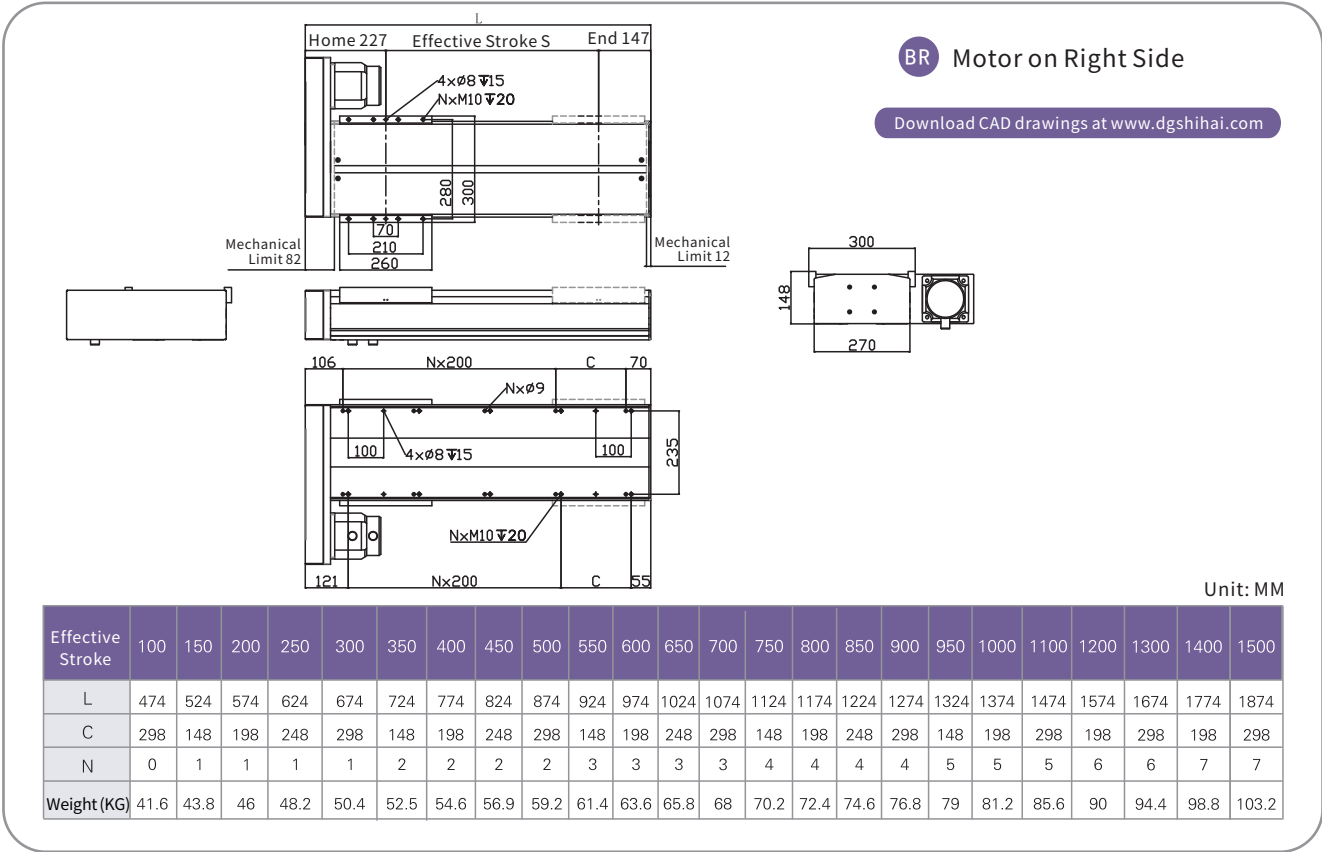
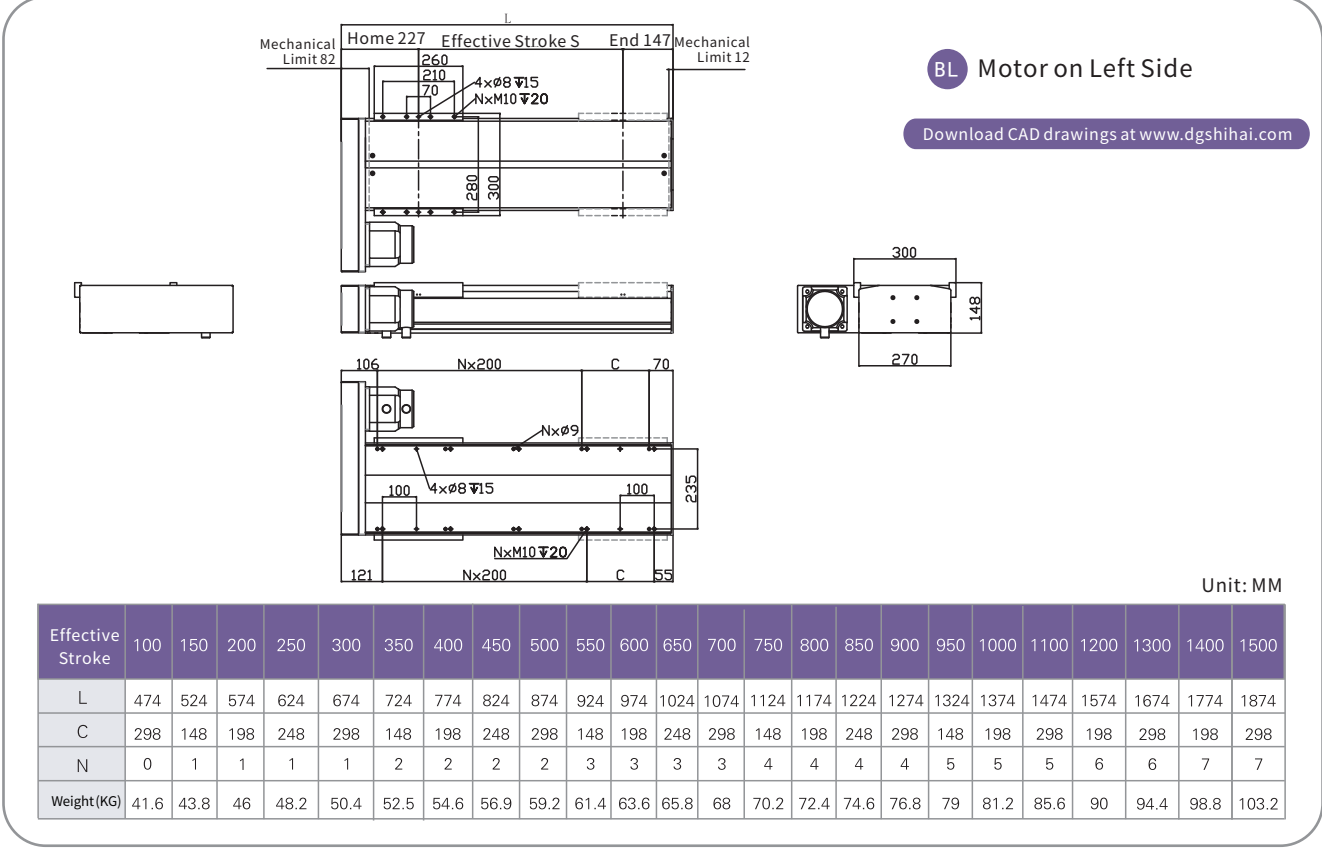
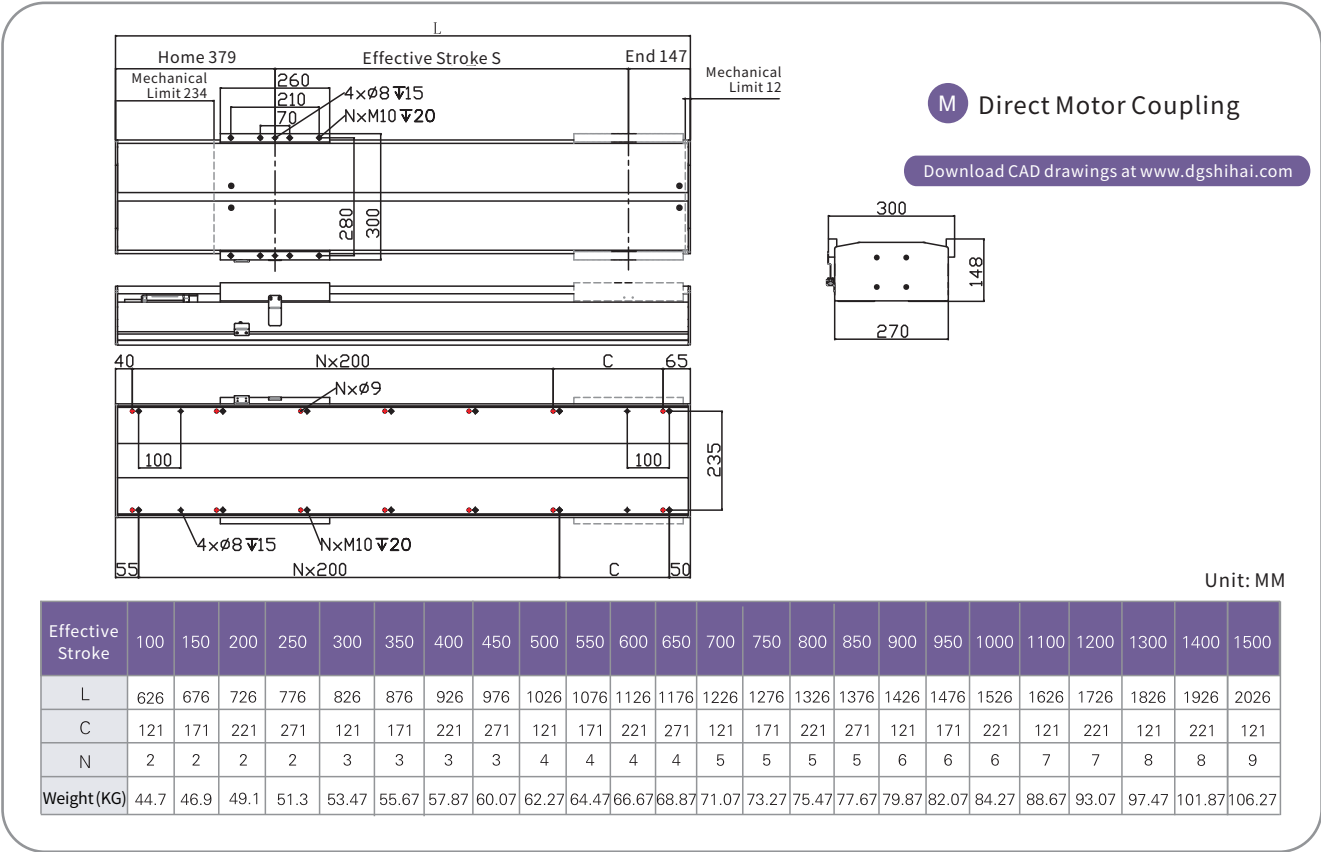
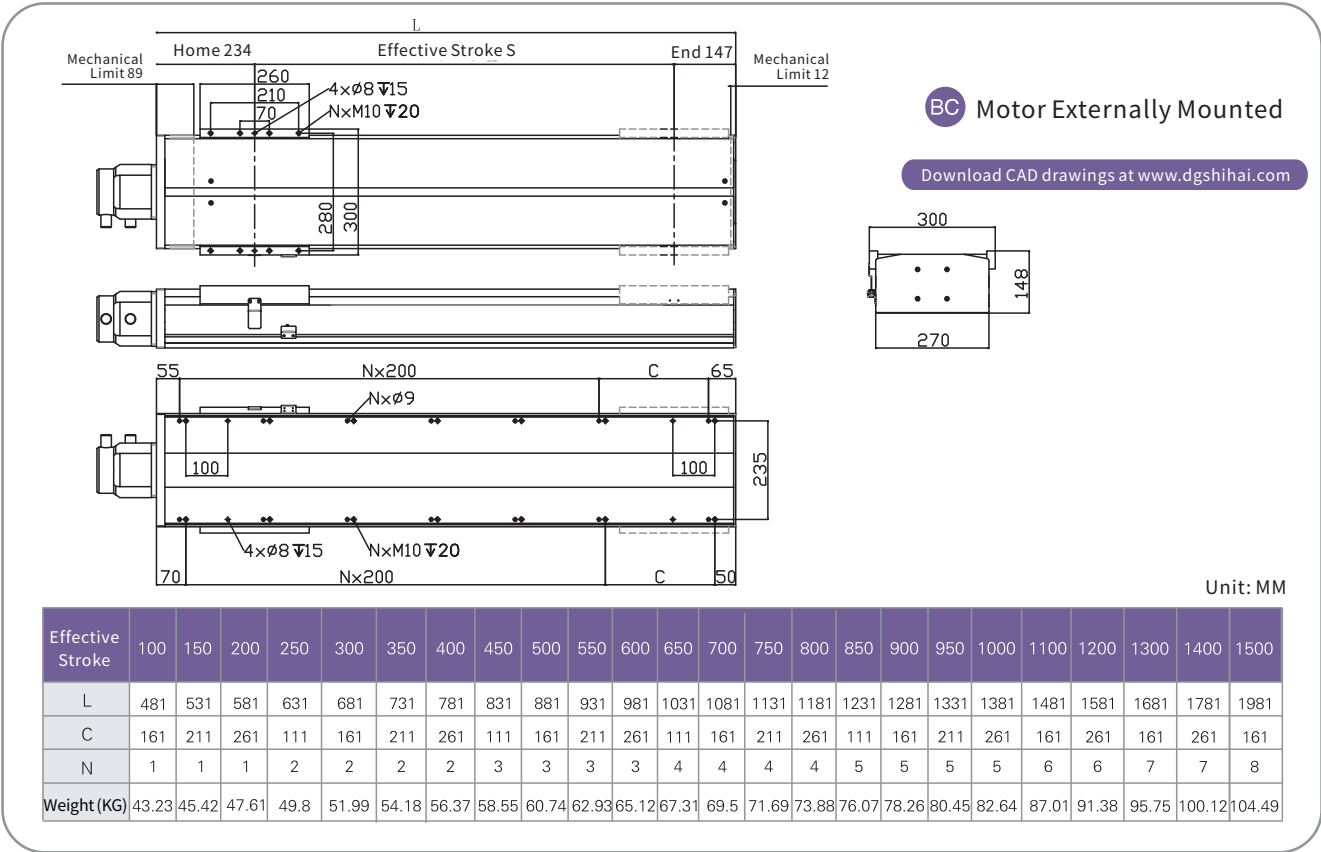
BC
Externally mounted & direct coupling

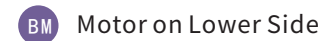
BL
Motor on left side

BR
Motor on right side

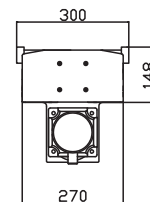
BM
Motor on lower side

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Download CAD drawings at www.dgshihai.com



Unit: MM

Effective Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1100	1200	1300	1400	1500
L	474	524	574	624	674	724	774	824	874	924	974	1024	1074	1124	1174	1224	1274	1324	1374	1474	1574	1674	1774	1874
C	298	148	198	248	298	148	198	248	298	148	198	248	298	148	198	248	298	148	198	298	198	298	198	298
N	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	6	6	7	7
Weight (KG)	41.6	43.8	46	48.2	50.4	52.5	54.6	56.9	59.2	61.4	63.6	65.8	68	70.2	72.4	74.6	76.8	79	81.2	85.6	90	94.4	98.8	103.2