

MSDM120 Series

▶ Ball Screw Drive Actuators / Clean Room



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Product Catalog

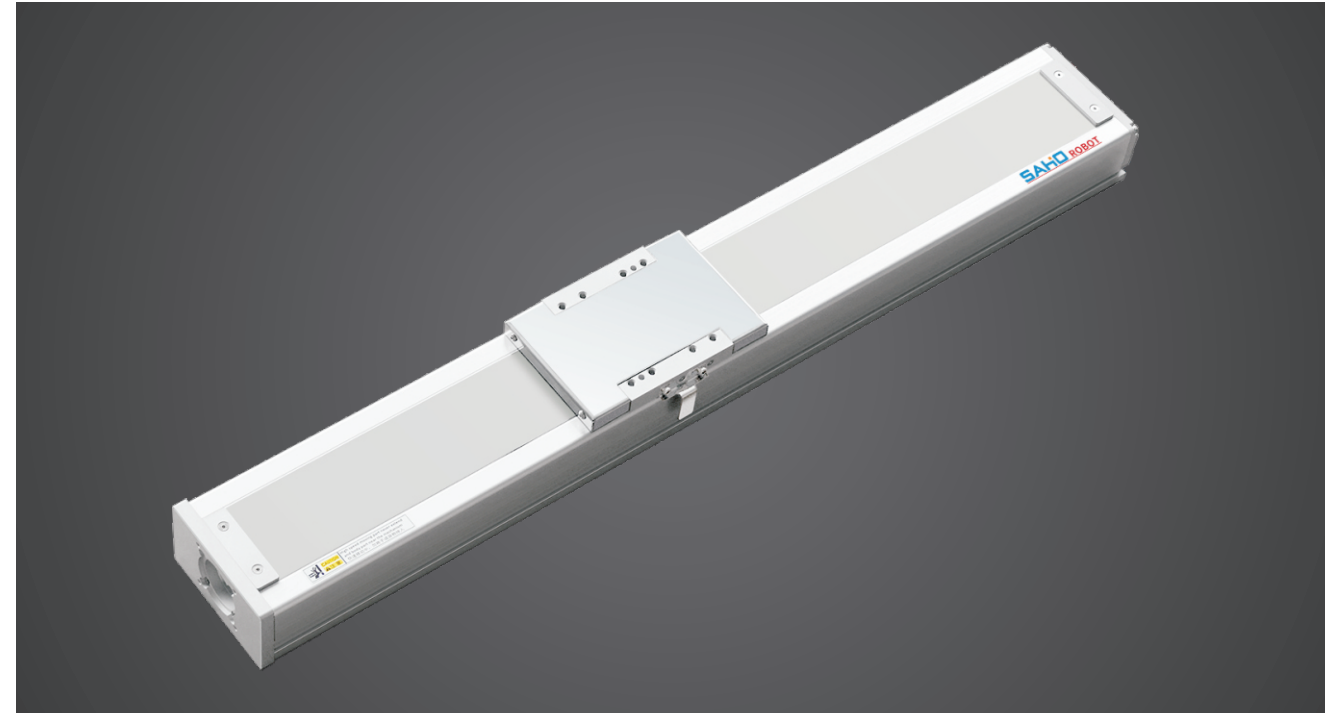
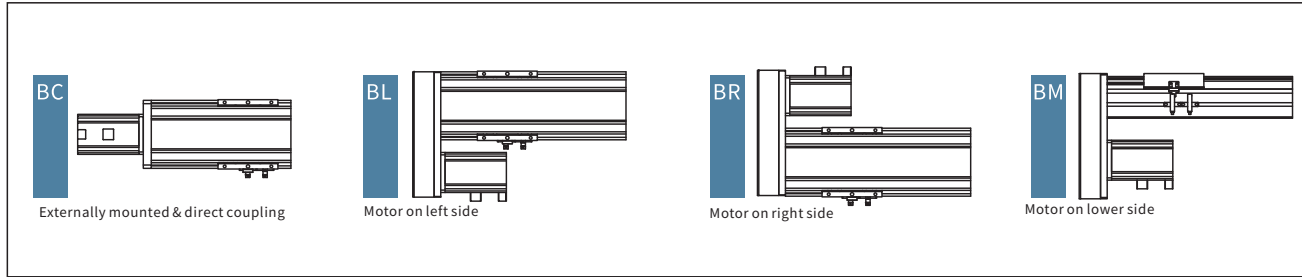
Basic Specifications						
Performance	Position Repetition Precision		±0.01/±0.02			
	Ball Screw Lead		5	10	16	20
	Max. Speed		250	500	800	1000
	Max. Handling Weight	Horizontal Use	50	30	25	25
		Vertical Use	30	20	15	15
	Standard Stroke		100~1050mm / 50mm pitch			
Components	AC Servo Motor Capacity		400			
	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

(Unit: mm)	(Unit: mm)	(Unit: mm)	(Unit: N.m)
Horizontal Mounting	A	C	
Lead 5	20kg	900	500
	30kg	600	300
	50kg	500	250
Lead 10	15kg	900	450
	25kg	700	350
	30kg	500	250
Lead 16	10kg	800	400
	20kg	600	300
	25kg	500	250
Lead 20	10kg	800	400
	20kg	600	300
	25kg	500	250
Side Mounting	A	C	
Lead 5	20kg	400	800
	30kg	300	600
	50kg	200	400
Lead 10	10kg	300	600
	20kg	200	400
	30kg	100	200
Lead 16	10kg	250	500
	20kg	150	300
	25kg	50	100
Lead 20	10kg	250	500
	20kg	150	300
	25kg	50	100
Vertical Mounting	A	C	
Lead 5	20kg	400	300
	30kg	300	200
	50kg	200	150
Lead 10	10kg	300	200
	25kg	150	100
Lead 16	10kg	300	200
	20kg	200	150
	-	-	-
Lead 20	10kg	300	200
	20kg	200	150
	-	-	-
			MY 200(N.m)
			MP 200(N.m)
			MR 180(N.m)

List of Shaft Directions



Max. Stroke 1050mm

Max. Speed 1000mm/s

Motor Capacity 400W

Ball Screw φ16MM

LinearGuideRail 15*12.5-2 PCS

Model Number Designation System

MSDM120- P05 - S500 - M - C7 - 400W - BJ

Model

Stroke

Lead

Motor Position

Ball Screw Grade

Servo Motor

Slide Block Length

P05	05mm
P10	10mm
P16	16mm
P20	20mm

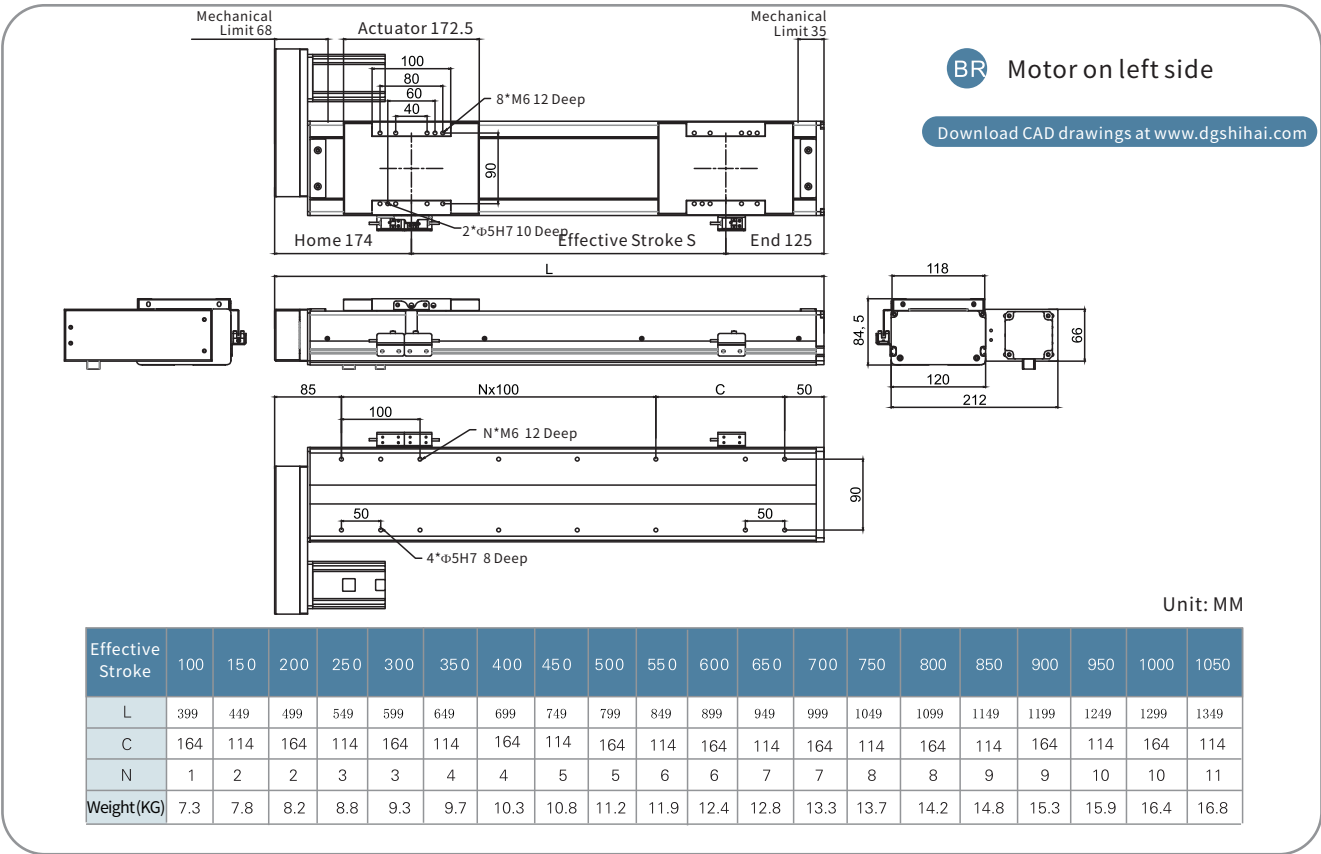
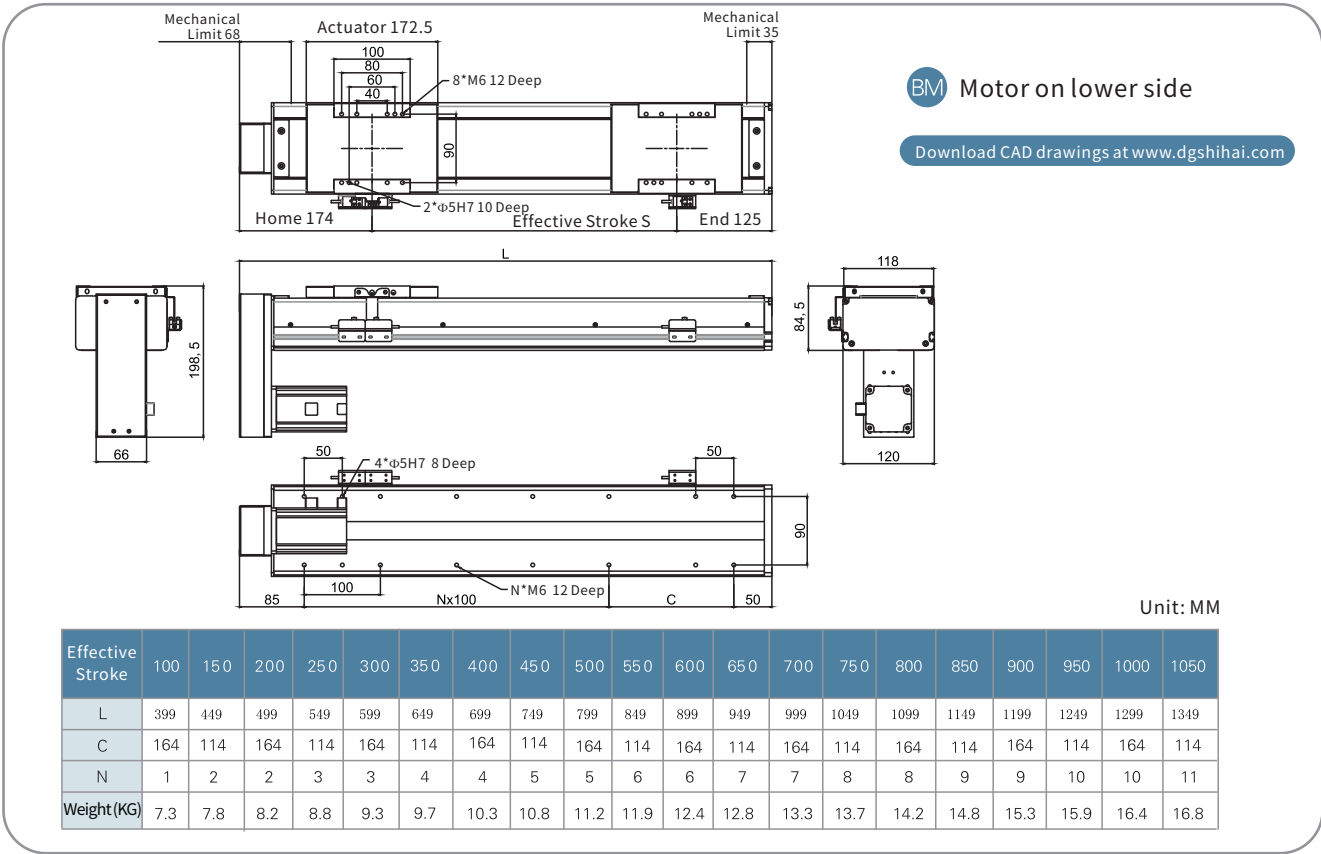
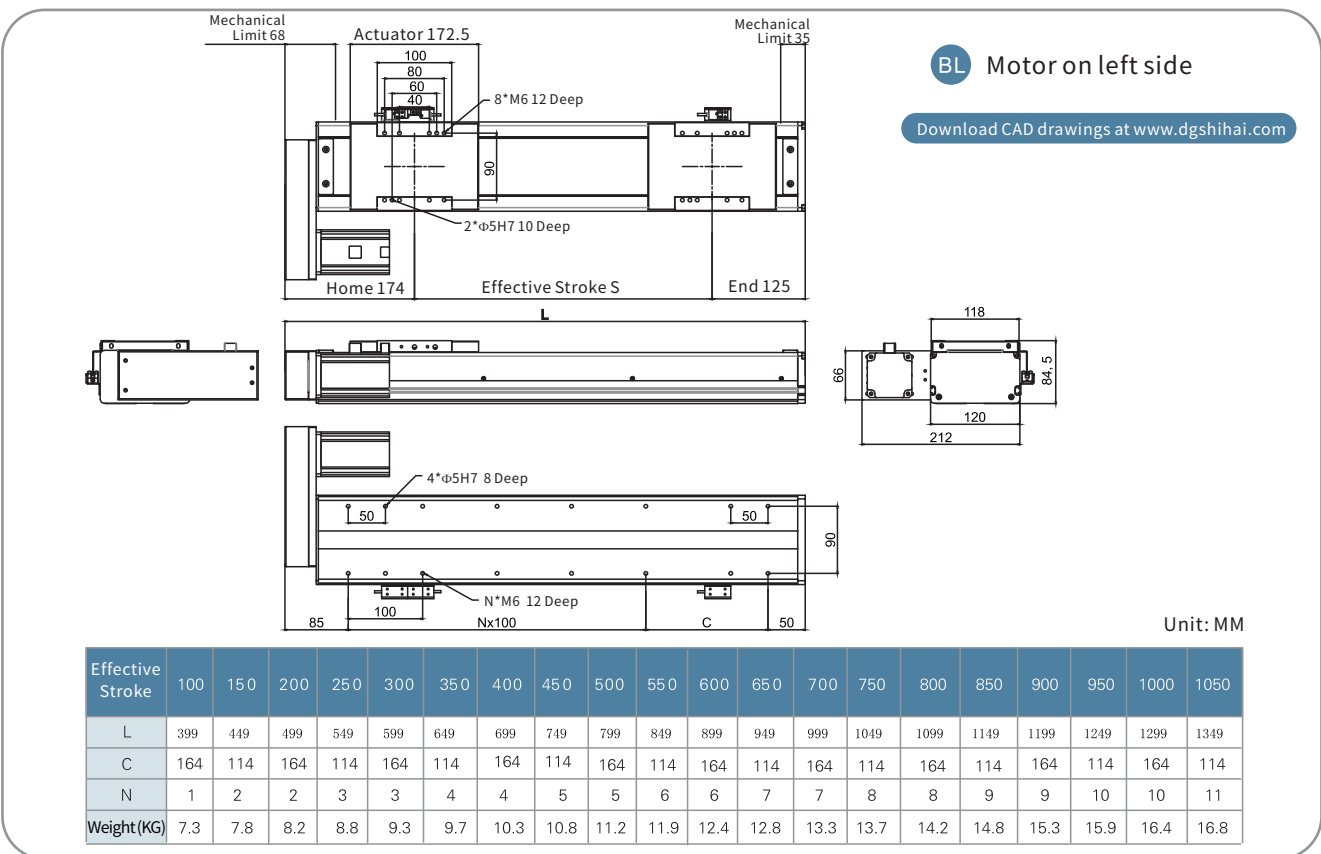
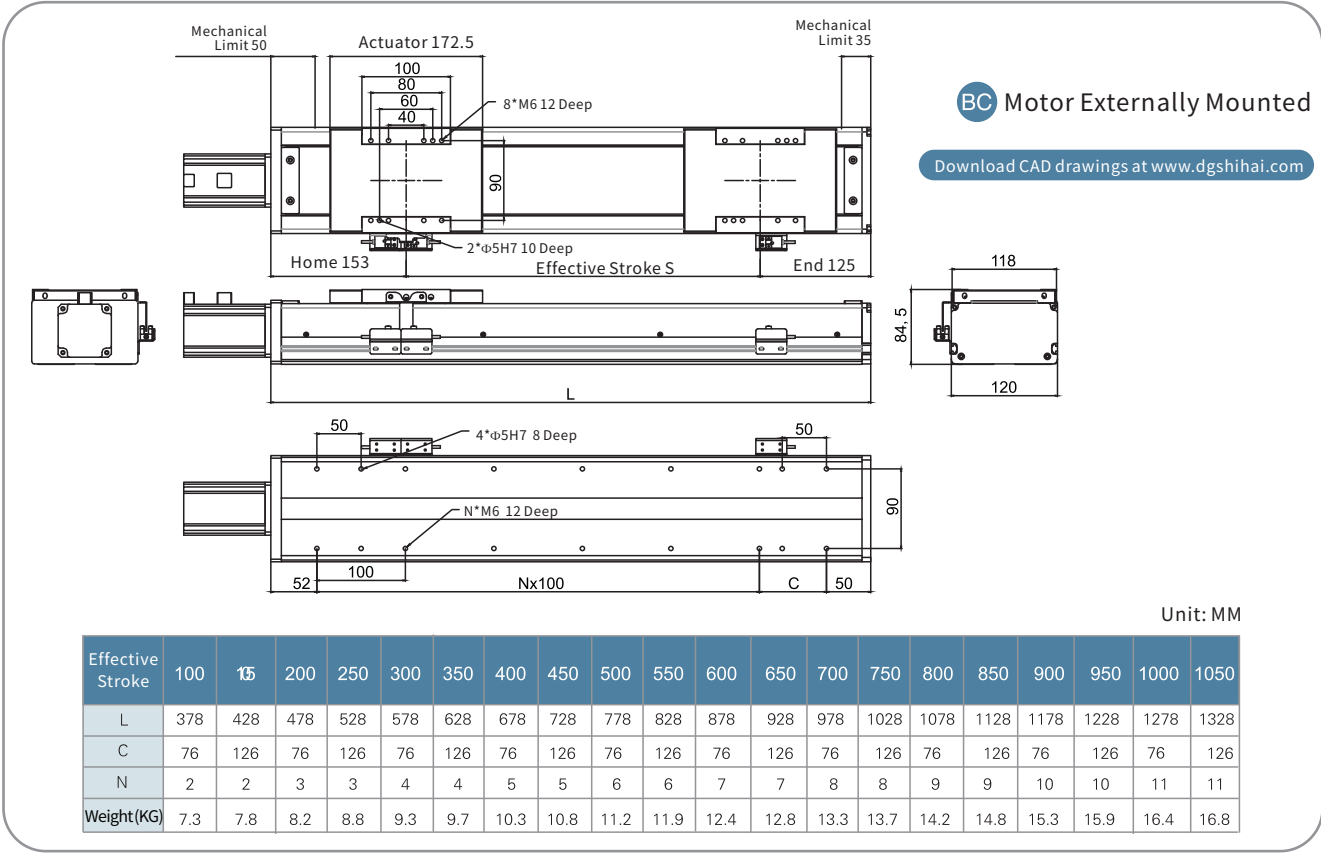
M	Direct motor coupling
BC	Motor externally mounted
BM	Motor on lower side
BR	Motor on right side
BL	Motor on left side

C7	C7
C5	C5
C3	C3

1	400W
H	Stepper motor
B	With brake

BJ	Standard slide block
DJ	Customized slide block

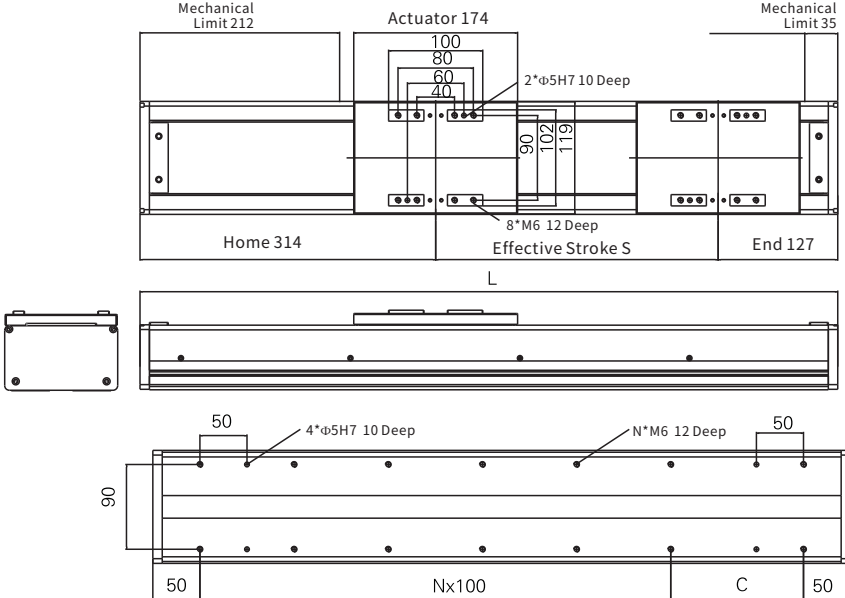
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Motor Direct Coupling

Download CAD drawings at www.dgshihai.com

Effective Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	541	591	641	691	741	791	841	891	941	991	1041	1091	1141	1191	1241	1291	1341	1391	1441	1491
C	141	91	141	91	141	91	141	91	141	91	141	91	141	91	141	91	141	91	141	91
N	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13
Weight(KG)	8	8.6	9.1	9.5	10	10.4	10.9	11.5	12	12.6	13	13.4	14	14.5	15	15.6	16.1	16.7	17.2	18