

MSDM65 Series

▶ Ball Screw Drive Actuators / Clean Room



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Max. Stroke800mm

Max. Speed1000mm/s

Motor Capacity400W

Ball Screwφ12MM

Linear Guide Rail42*9.5-1 PC

Model Number Designation System

MSDM65 - P05 - S500 - M - C7 - 100W - BJ

Model

Stroke

Lead

Motor Position

Ball Screw Grade

Servo Motor

Slide Block Length

P02	02mm
P05	05mm
P10	10mm
P20	20mm

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	100W
2	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		2	5	10	20
	Max. Speed		100	250	500	1000
	Max. Handling Weight	Horizontal Use	20	15	10	8
		Vertical Use	15	10	5	5
Standard Stroke			100-800mm / 50mm pitch			
Components	AC Servo Motor Capacity		400			
	Ball Screw Outer Diameter		C7 Ø12			
	High-rigidity Linear Guide		9.5×42			
	Coupling		LK5-C34-1410WP			
	Home Sensor	Externally mounted	FC-SPX303Z(NPN)			
LU672-5NA(NPN)						

Allowable Load Moment Table

Horizontal Operation

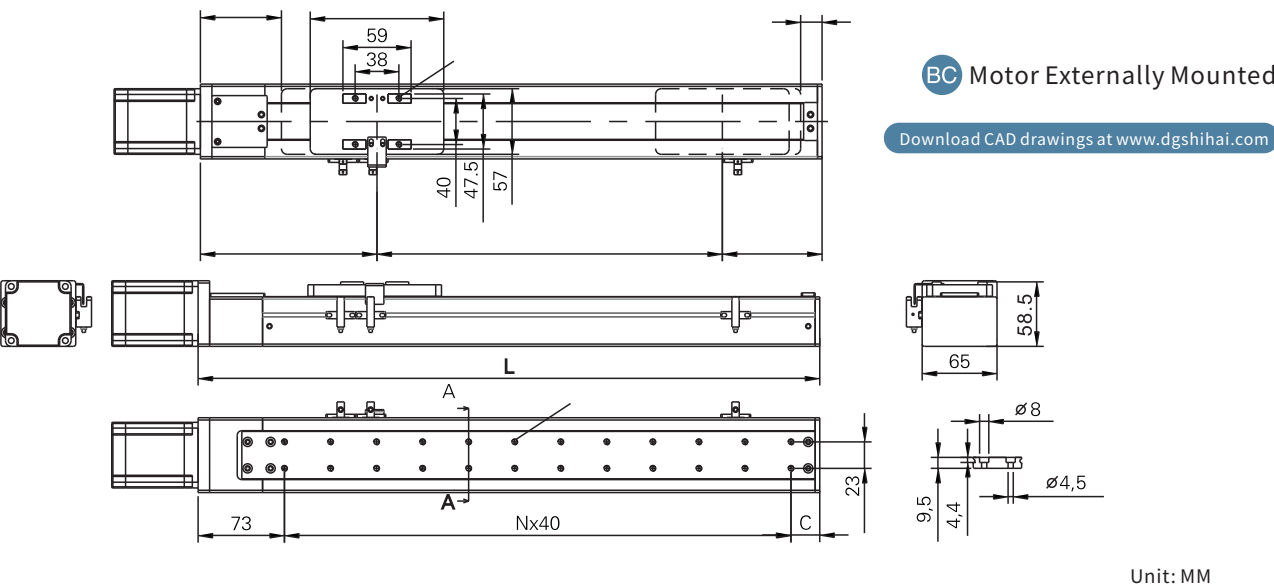
Horizontal Mounting		A	C
Lead 5	10kg	300	200
	20kg	150	100
	-	-	-
Lead 10	8kg	300	200
	15kg	150	100
	-	-	-
Lead 20	6kg	300	200
	10kg	150	100
	-	-	-

Side Mounting		A	C
Lead 5	15kg	200	400
	20kg	150	200
	-	-	-
Lead 10	10kg	200	400
	15kg	150	200
	-	-	-
Lead 20	8kg	200	400
	10kg	150	200
	-	-	-

Vertical Mounting		A	C
Lead 5	10kg	200	300
	15kg	100	150
	-	-	-
Lead 10	8kg	200	300
	10kg	100	150
	-	-	-

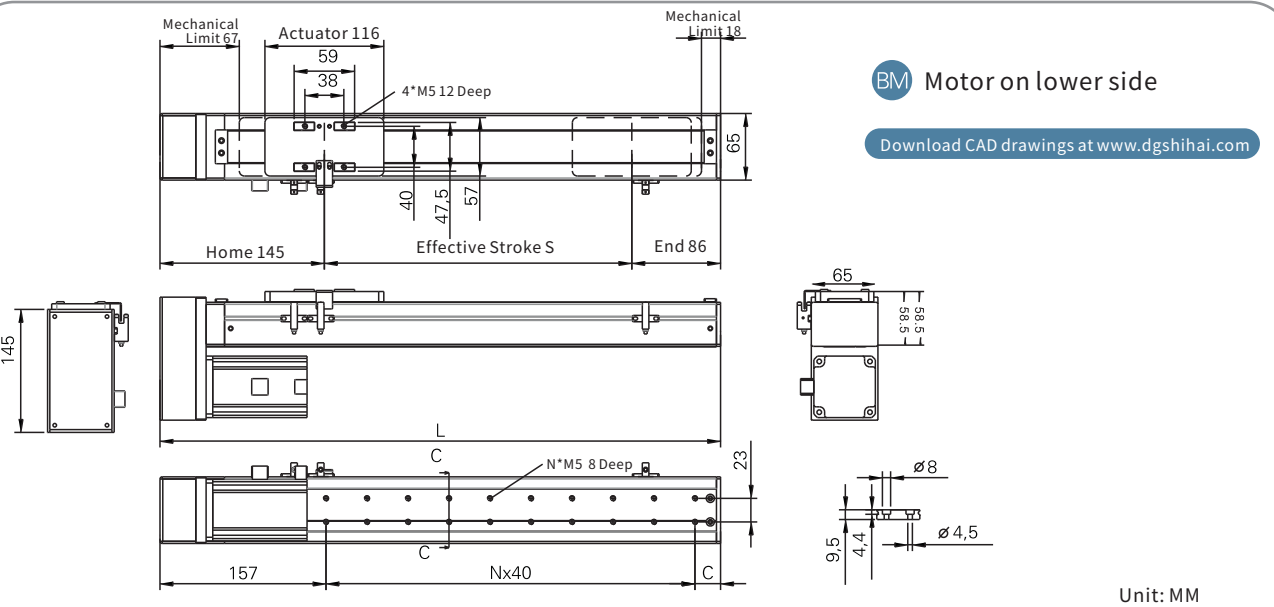
MY	70(N.m)
MP	80(N.m)
MR	75(N.m)

List of Shaft Directions



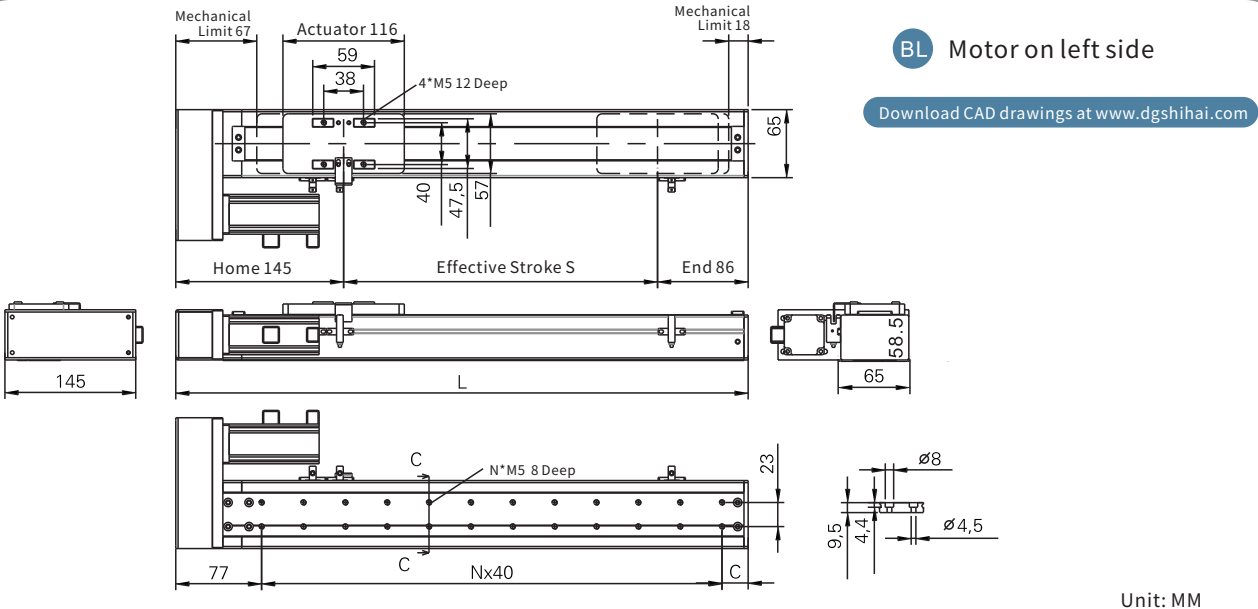
Effective Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	328	378	428	478	528	578	628	678	728	778	828	878	928	978	1028
C	15	25	35	45	15	25	35	45	15	25	35	45	15	25	35
N	6	7	8	9	11	12	13	14	16	17	18	19	21	22	23
Weight(KG)	2.7	2.8	3	3.2	3.4	3.6	3.7	3.9	4.1	4.3	4.4	4.6	4.8	5	5.1

Unit: MM



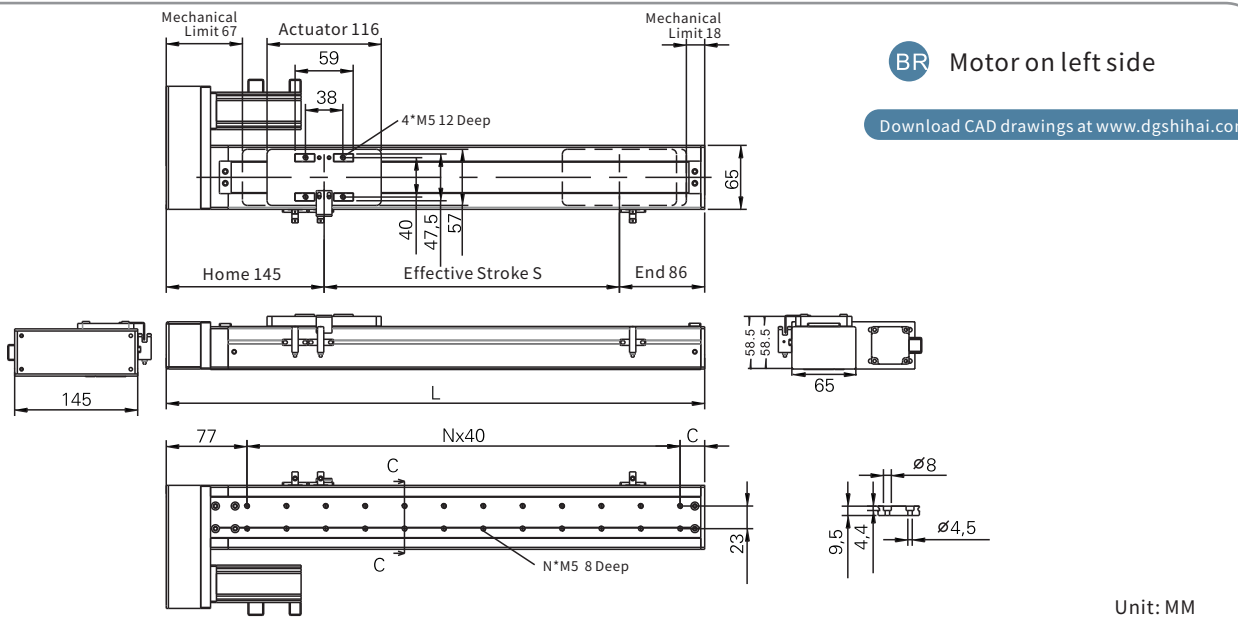
Effective Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	331	381	431	481	531	581	631	681	731	781	831	881	931	981	1031
C	14	24	34	44	14	24	34	44	14	24	34	44	14	24	34
N	4	5	6	7	9	10	11	12	14	15	16	17	19	20	21
Weight(KG)	2.7	2.8	3	3.2	3.4	3.6	3.7	3.9	4.1	4.3	4.4	4.6	4.8	5	5.1

Special Note: * Motor not included



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