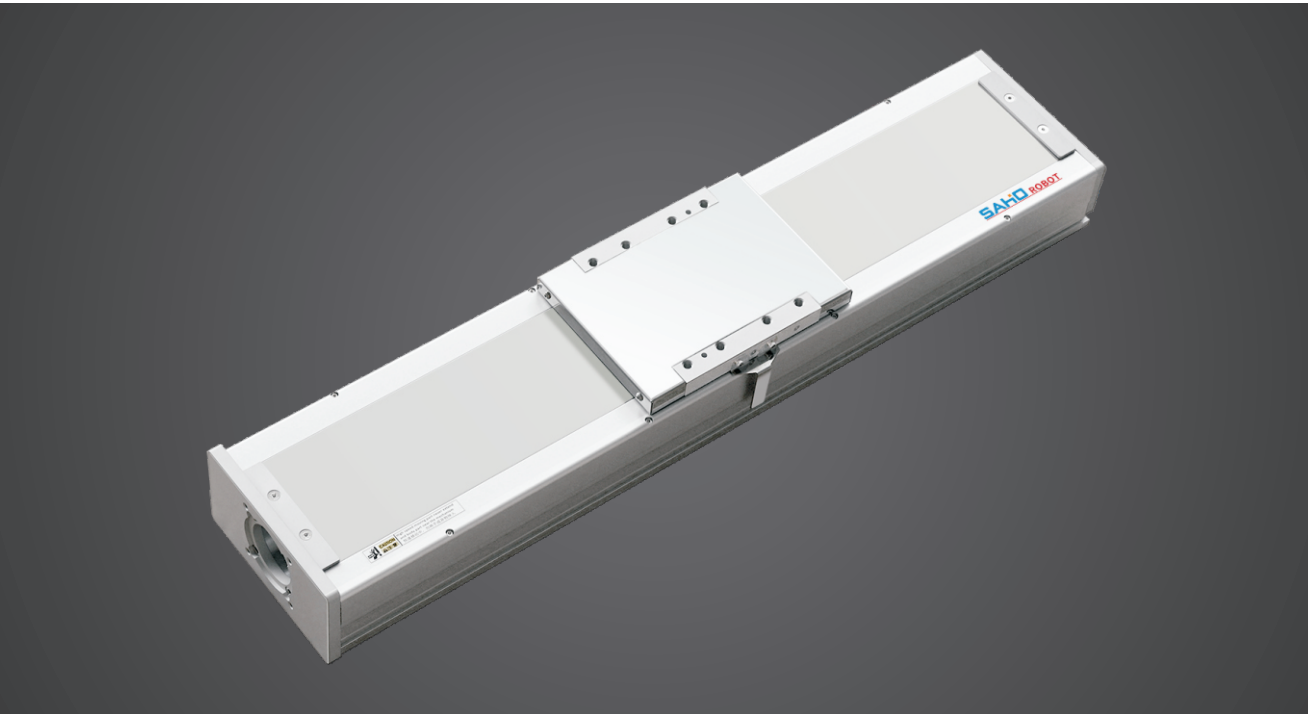




Max. Stroke 2000mm

Max. Speed 2000mm/s

Motor Capacity 1000W

Ball Screw φ25MM

Linear Guide Rail 20*18-2 PCS

Model Number Designation System

MSDM175 - P05 - S500 - M - C7 - 750W - BJ

Model
P05 05mm
P10 10mm
P25 25mm

Stroke
100-2000mm
50mm pitch

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

Ball Screw Grade
C7 C7
C5 C5
C3 C3

Servo Motor
1 750W
2 1000W
H Stepper motor
B With brake

Slide Block Length
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	25	-
	Max. Speed		250	500	1250	-
	Max. Handling Weight	Horizontal Use	80	60	50	-
		Vertical Use	45	35	30	-
	Standard Stroke		100~2000mm / 50mm pitch			
Components	AC Servo Motor Capacity		1000			
	Ball Screw Outer Diameter		C7 Ø25			
	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)

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 25	30kg	900	450
	40kg	800	400
	150kg	700	350

(Unit: mm)

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 25	30kg	800	1200
	40kg	700	1100
	50kg	600	1000

(Unit: mm)

Vertical Mounting		A	C
Lead 5	30kg	600	500
	50kg	500	400
	80kg	400	300
Lead 10	35kg	600	500
	50kg	500	400
	60kg	400	300
Lead 25	30kg	600	500
	40kg	500	400
	50kg	400	300

Horizontal Operation (Unit: N.m)

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

List of Shaft Directions

Externally mounted & direct coupling

Motor on left side

Motor on right side

Motor on lower side

Product Catalog

BC Motor Externally Mounted

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	1100	1150	1200	1250
L	435	485	535	585	635	685	735	785	835	885	935	985	1035	1085	1135	1185	1235	1285	1335	1385	1435	1485	1535	1585
C	183	83	133	183	83	133	183	83	133	183	83	133	183	83	133	183	831	331	83	83	133	183	83	133
N	1	2	2	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9
M	6	8	8	8	10	10	12	12	14	14	16	16	16	16	16	18	18	20	20	20	20	22	22	22
Weight(KG)	15	15.8	16.6	17.4	18	18.8	19.6	20.4	21.2	22	22.8	23.5	24.3	25.1	25.9	26.7	27.4	28.2	29	29.8	30.6	31.4	32.2	33

BM Motor on lower side

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	1100	1150	1200	1250
L	445	495	545	595	645	695	745	795	845	895	945	995	1045	1095	1145	1195	1245	1295	1345	1395	1445	1495	1545	1595
C	158	208	108	158	208	108	158	208	108	158	208	108	158	208	108	158	208	108	158	208	108	158	208	108
M	1	1	2	2	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
Weight(KG)	14.8	15.6	16.4	17.2	17.9	18.7	19.5	20.3	21	21.8	22.6	23.4	24.1	24.9	25.7	26.5	27.2	28	28.8	29.6	30.4	31.2	32	32.8

BL Motor on left side

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	1100	1150	1200	1250
L	445	495	545	595	645	695	745	795	845	895	945	995	1045	1095	1145	1195	1245	1295	1345	1395	1445	1495	1545	1595
C	158	208	108	158	208	108	158	208	108	158	208	108	158	208	108	158	208	108	158	208	108	158	208	108
N	1	1	2	2	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9
M	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
Weight(KG)	14.8	15.6	16.4	17.2	17.9	18.7	19.5	20.3	21	21.8	22.6	23.4	24.1	24.9	25.7	26.5	27.2	28	28.8	29.6	30.4	31.2	32	32.8

BR Motor on left side

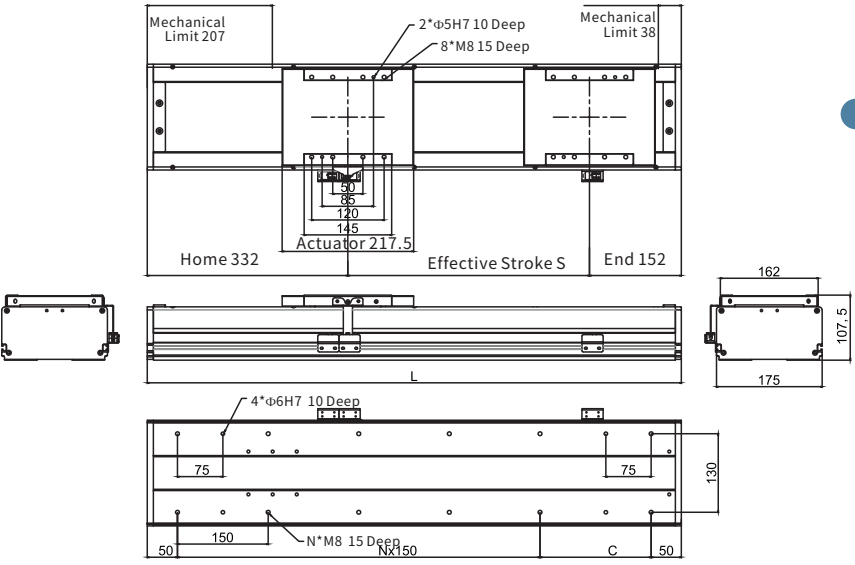
Download CAD drawings at www.dgshihai.com

Effective Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	445	495	545	595	645	695	745	795	845	895	945	995	1045	1095	1145	1195	1245	1295	1345	1395	1445	1495	1545	1595
C	158	208	108	158	208	108	158	208	108	158	208	108	158	208	108	158	208	108	158	208	108	158	208	108
N	1	1	2	2	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9
M	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
Weight(KG)	14.8	15.6	16.4	17.2	17.9	18.7	19.5	20.3	21	21.8	22.6	23.4	24.1	24.9	25.7	26.5	27.2	28	28.8	29.6	30.4	31.2	32	32.8

MSDM175 Series

▶ Ball Screw Drive Actuators / Clean Room

Product Catalog



Technical drawing of the MSDM175 Motor Direct Coupling actuator. The drawing includes a top view showing the actuator body with dimensions: Mechanical Limit 207, 2*φ5H7 10 Deep, 8*M8 15 Deep, Mechanical Limit 38, Home 332, Actuator 217.5, Effective Stroke S, End 152, and a side view showing dimensions 162, 107.5, and 175. A detail view shows dimensions 75, 130, 50, 150, and N*M8 15 Deep.

M 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	1100	1150	1200	1250
L	584	634	684	734	784	834	884	934	984	1034	1084	1134	1184	1234	1284	1334	1384	1434	1484	1534	1584	1634	1684	1734
C	184	84	134	184	84	134	184	84	134	184	84	134	184	84	134	184	84	134	184	84	134	184	84	134
N	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	10	10
M	8	10	10	10	12	12	12	14	14	14	16	16	16	18	18	18	20	20	20	22	22	22	24	24
Weight(KG)	14.8	15.6	16.4	17.2	17.8	18.6	19.4	20.2	21	21.8	22.6	23.3	24.1	24.9	25.7	26.5	27.2	28	28.8	29.6	30.4	31.2	32	32.8

Unit: MM