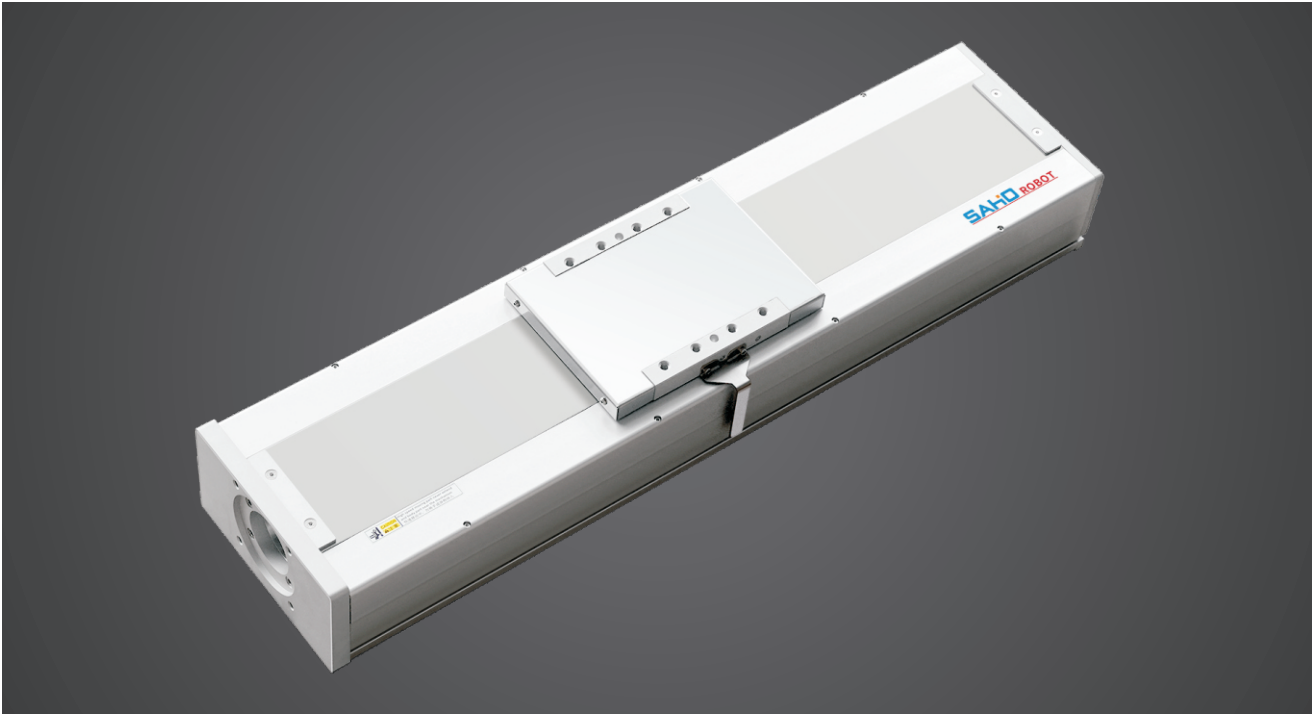


MSDM210 Series

▶ Ball Screw Drive Actuators / Clean Room



Ball Screw Drive Actuators / Clean Room



Max. Stroke 2500mm

Max. Speed 2000mm/s

Motor Capacity 1500W

Ball Screw $\varnothing 32\text{MM}$

LinearGuideRail 25*18-2 PCS

Model Number Designation System

MSDM210 - P10 - S500 - M - C7 - 750W - BJ

Model

Lead

Motor Position

Stroke

Ball Screw Grade

Servo Motor

Slide Block Length

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

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	750W
2	1000W
3	1500W
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		5	10	20	32
	Max. Speed		250	500	1250	1800
	Max. Handling Weight	Horizontal Use	150	130	120	80
		Vertical Use	100	80	70	60
Standard Stroke			100~2500mm / 50mm pitch			
Components	AC Servo Motor Capacity		1500			
	Ball Screw Outer Diameter		C7 Ø32	C7 Ø32	C7 Ø32	C7 Ø32
	High-rigidity Linear Guide		25×18			
	Coupling		LK5-C56-2022WP			
	Home Sensor	External-mounted	FC-SPX307Z(NPN)			
			LU674-5NA(NPN)			

Allowable Load Moment Table

Horizontal Operation

(Unit: mm)

Horizontal Mounting		A	C
Lead 5	100kg	1000	500
	120kg	800	400
	200kg	600	300
Lead 10	90kg	1000	500
	100kg	800	400
	200kg	600	300
Lead 25	80kg	1000	500
	100kg	800	400
	200kg	600	300
Lead 32	80kg	1000	500
	90kg	800	400
	200kg	600	300

(Unit: mm)

Side Mounting		A	C
Lead 5	80kg	800	1200
	100kg	600	1000
	120kg	500	800
Lead 10	70kg	800	1200
	80kg	600	1000
	110kg	500	800
Lead 25	50kg	800	1200
	80kg	600	1000
	120kg	500	800
Lead 32	60kg	800	1200
	70kg	600	1000
	80kg	500	800

(Unit: mm)

Vertical Mounting		A	C
Lead 5	80kg	1100	900
	120kg	1000	800
	150kg	900	700
Lead 10	80kg	1100	900
	100kg	1000	800
	120kg	900	700
Lead 25	80kg	1100	900
	90kg	1000	800
	100kg	900	700
Lead 32	80kg	1100	900
	90kg	1000	800
	100kg	900	700

(Unit: N.m)

MY	2500(N.m)
MP	2500(N.m)
MR	2200(N.m)

List of Shaft Directions

BC

BL

BR

BM

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	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100
L	467	567	667	767	867	967	1067	1167	1267	1367	1467	1567	1667	1767	1867	1967	2067	2167	2267	2367	2467
C	212	162	112	212	162	112	212	162	112	212	162	112	212	162	112	212	162	112	212	162	112
N	1	2	3	3	4	5	5	6	7	7	8	9	9	10	11	11	12	13	13	14	15
Weight(KG)	29.91	24.98	28.03	31.1	34.16	37.22	40.28	43.34	46.4	49.46	52.52	55.59	58.65	61.71	64.77	67.83	70.89	73.95	77.01	80.07	83.13

Unit: MM

BL Motor on left side

Download CAD drawings at www.dgshihai.com

Effective Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100
L	475	575	675	775	875	975	1075	1175	1275	1375	1475	1575	1675	1775	1875	1975	2075	2175	2275	2375	2475
C	170	120	220	170	120	220	170	120	220	170	120	220	170	120	220	170	120	220	170	120	220
N	1	2	2	3	4	4	5	6	6	7	8	8	9	10	10	11	12	12	13	14	14
Weight(KG)	19.23	22.29	25.36	28.42	31.48	34.54	37.6	40.67	43.72	46.79	49.85	52.91	55.97	59.03	62.09	65.15	68.21	71.27	74.33	77.39	80.46

Unit: MM

BM Motor on lower side

Download CAD drawings at www.dgshihai.com

Effective Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100
L	475	575	675	775	875	975	1075	1175	1275	1375	1475	1575	1675	1775	1875	1975	2075	2175	2275	2375	2475
C	170	120	220	170	120	220	170	120	220	170	120	220	170	120	220	170	120	220	170	120	220
N	1	2	2	3	4	4	5	6	6	7	8	8	9	10	10	11	12	12	13	14	14
Weight(KG)	19.23	22.29	25.36	28.42	31.48	34.54	37.6	40.67	43.72	46.79	49.85	52.91	55.97	59.03	62.09	65.15	68.21	71.27	74.33	77.39	80.46

Unit: MM

BR Motor on left side

Download CAD drawings at www.dgshihai.com

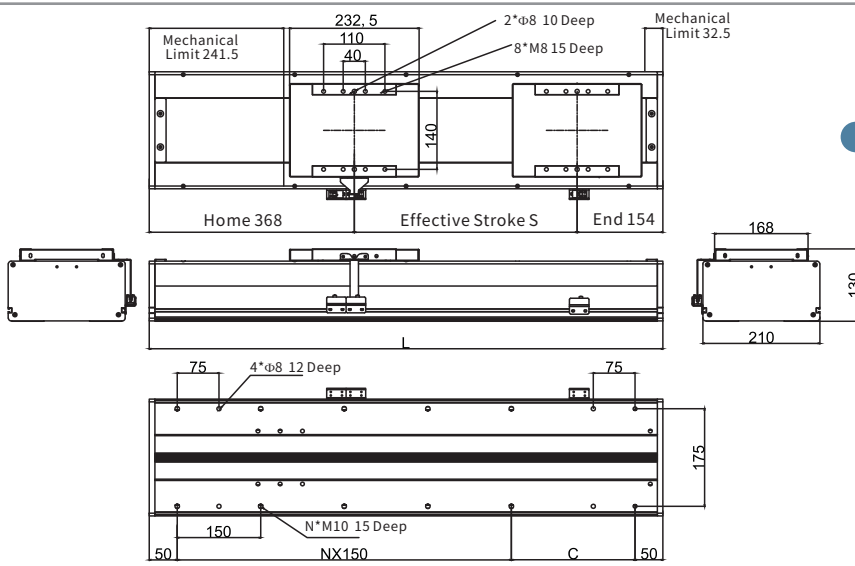
Effective Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100
L	475	575	675	775	875	975	1075	1175	1275	1375	1475	1575	1675	1775	1875	1975	2075	2175	2275	2375	2475
C	170	120	220	170	120	220	170	120	220	170	120	220	170	120	220	170	120	220	170	120	220
N	1	2	2	3	4	4	5	6	6	7	8	8	9	10	10	11	12	12	13	14	14
Weight(KG)	19.23	22.29	25.36	28.42	31.48	34.54	37.6	40.67	43.72	46.79	49.85	52.91	55.97	59.03	62.09	65.15	68.21	71.27	74.33	77.39	80.46

Unit: MM

MSDM210 Series

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Product Catalog



Technical drawing of the MSDM210 series ball screw drive actuator. The drawing includes top, side, and front views with various dimensions. Key dimensions include: Home 368, Effective Stroke S, End 154, Mechanical Limit 241.5, Mechanical Limit 32.5, 2*φ8 10 Deep, 8*M8 15 Deep, 140, 168, 130, 210, 75, 4*φ8 12 Deep, 175, 150, N*M10 15 Deep, NX150, C, 50.

M Motor Direct Coupling

Download CAD drawings at www.dgshihai.com

	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100
Effective Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100
L	622	722	822	922	1022	1122	1222	1322	1422	1522	1622	1722	1822	1922	2022	2122	2222	2322	2422	2522	2622
C	222	172	122	222	172	122	222	172	122	222	172	122	222	172	122	222	172	122	222	172	122
N	2	3	4	4	5	6	6	7	8	8	9	10	10	11	12	12	13	14	14	15	16
Weight(KG)	24.82	27.89	30.94	34	37.06	40.13	43.18	46.24	49.3	52.36	55.43	58.49	61.55	64.61	67.67	70.74	73.8	76.86	79.92	82.98	86.04

Unit: MM