

Precision Screw Module

Fully Enclosed (Cleanroom Environment)

MGTH4



Max Stroke (mm)	800
Max Payload (KG)	25
Repeatability (mm)	±0.006

MGTH5



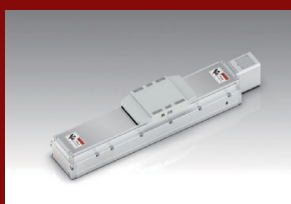
Max Stroke (mm)	800
Max Payload (KG)	30
Repeatability (mm)	±0.006

MGTH8



Max Stroke (mm)	1,050
Max Payload (KG)	50
Repeatability (mm)	±0.006

MGTH12



Max Stroke (mm)	1,250
Max Payload (KG)	110
Repeatability (mm)	±0.006

MGTH15



Max Stroke (mm)	1,350
Max Payload (KG)	120
Repeatability (mm)	±0.006

MGTH20



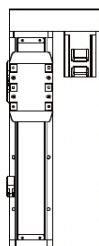
Max Stroke (mm)	1,350
Max Payload (KG)	150
Repeatability (mm)	±0.006



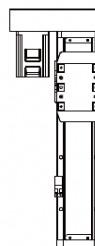
Motor Mount Location



Inline



Right Side



Left Side



Down Side

Model Selection Guide

MGTH4 - L2 - C - S50 - BC - ZP10B - C 3 P

Base Style	
MGTH	M Series
4	Body Width 44mm

Ball Screw Lead	
L2	2mm
L6	6mm
L12	12mm

Accuracy Class	
P	Precision
C	Regular

Stroke (mm)
50-800mm

Motor Connection	
BA	Basic
BC	Inline
BR	Right Side
BL	Left Side

Motor Type		Motor Power	
M	Mach Motion	10	100W
Z	Client's Motor	-	
Brake			
B		None (No B)	No Brake

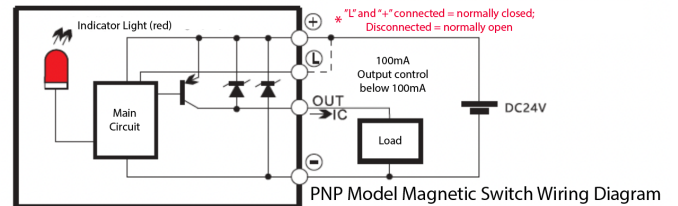
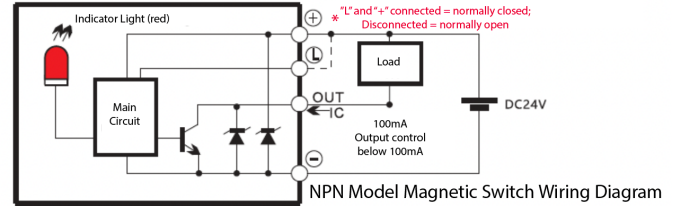
Sensor Switch	
2	2 Pcs
3	3 Pcs

Sensor Type	
P	PNP
None (No P)	NPN

Original Sensor Position	
External	
C	Motor Side
D	Opposite Motor Side
E	No Sensor

Technical Specifications

Motor Power AC (W)		100W		
Ball Screw Diameter (mm)		C7	10	
		C5	10	
Repeatability (mm)		C7	± 0.01	
		C5	± 0.006	
Ball Screw Lead (mm)		2	6	12
Max. Speed (mm/sec)		100	300	600
3000 Motor Speed (rpm/min)				
Maximum Payload (kg)	Horizontal	25	20	12
	Vertical	8	5	2
Rated Thrust (N)		424	141	71
Range of Stroke (mm)		50-800mm / 50 (Interval)		
Total Length (mm)		<1,000		
Coupling (mm)		7 x 8		
Motor Side x Ball Screw Side				
Home Sensor		EE-SX674(NPN)		



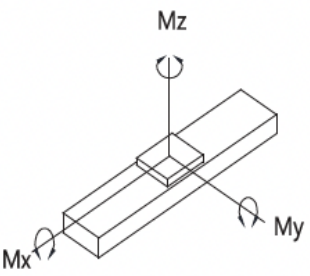
Notes:

1. Motor acceleration and deceleration value is set to 0.2 seconds.
2. Repeatability is within 300mm stroke - longer stroke will result in lower value.
3. If stroke of 600mm+ leads to swing of ball screw, please reduce speed by 15%. Please note if the motor size is the same, or coupler and mounting plate need replaced.

Stroke (mm) & Maximum Speed (mm/s)

Model	C7 Ball Screw Spec		Stroke (mm) & Maximum Speed (mm/s)				
	Outer Diameter (mm)	Lead (mm)	≤ 550	650	750	800	/
MGTH4	ø10	2	100	80	60	50	/
		6	300	240	180	150	/
		12	600	480	360	300	/

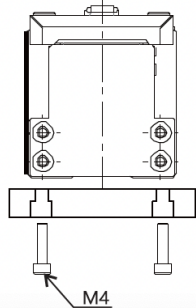
Maximum Static Torque



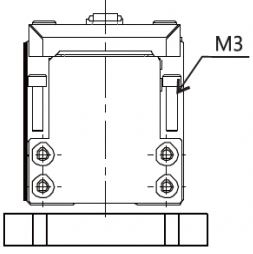
Mz	79
My	79
Mx	116

Installation Instructions & Dimensions

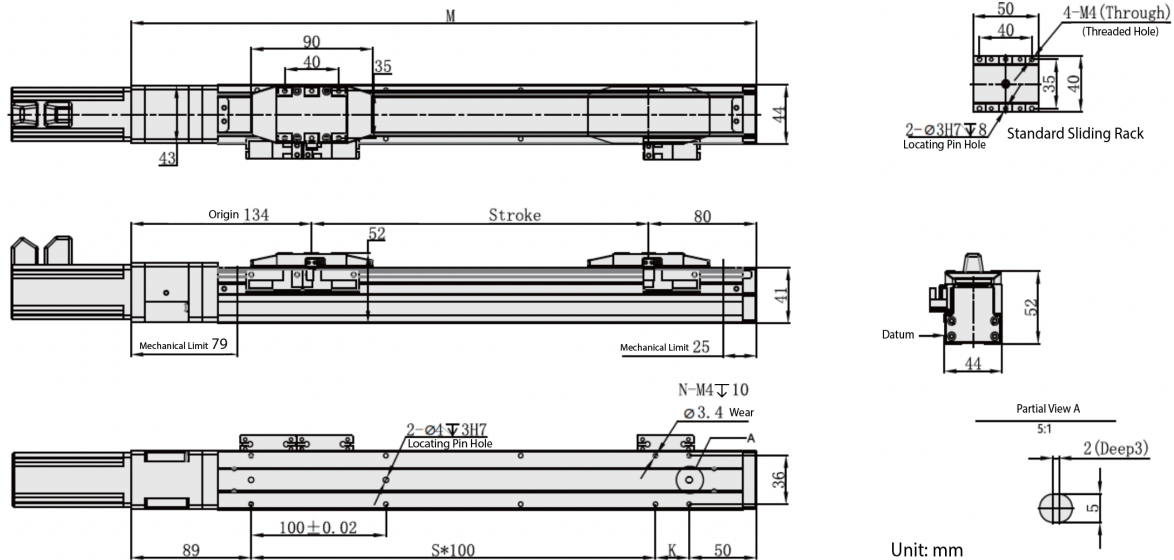
Installation 1:
Install from bottom up.
* Note length of screw into slide model. Do not exceed 10mm or it will hit the guide rail.



Installation 2:
Install from top to bottom.



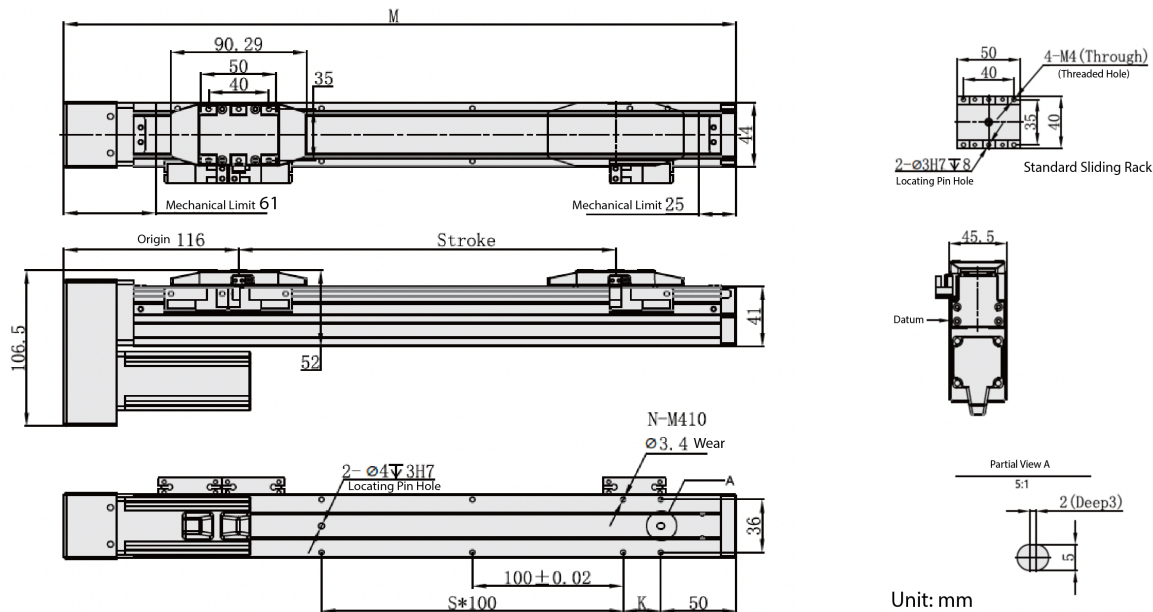
BC (Inline):



Working Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
M	264	314	364	414	464	514	564	614	664	714	764	814	864	914	964	1,014
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
S	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
K	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
KG	0.95	1.12	1.29	1.47	1.65	1.83	2.01	2.19	2.37	2.55	2.73	2.91	3.09	3.27	3.45	3.63

Please contact orders@machmo.com for assistance if a custom stroke outside of above parameters is needed.

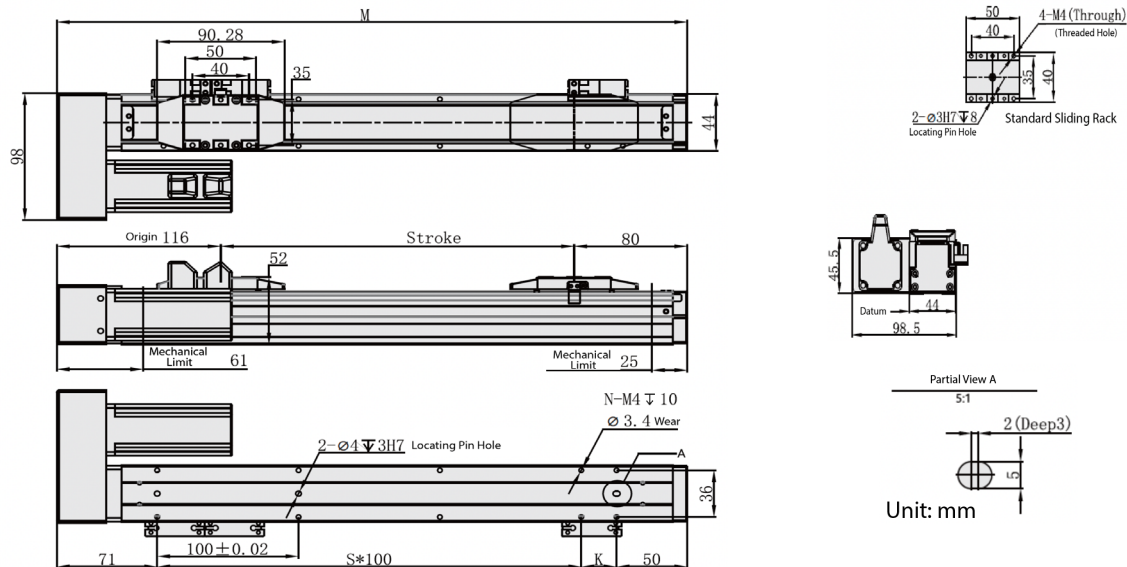
BM (Down Side):



Working Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
M	246	296	346	396	446	496	546	596	646	696	746	796	846	896	946	996
N	4	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18
S	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7
K	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
KG	1.04	1.22	1.40	1.58	1.76	1.94	2.12	2.30	2.48	2.66	2.84	3.02	3.20	3.38	3.56	3.74

Please contact orders@machmo.com for assistance if a custom stroke outside of above parameters is needed.

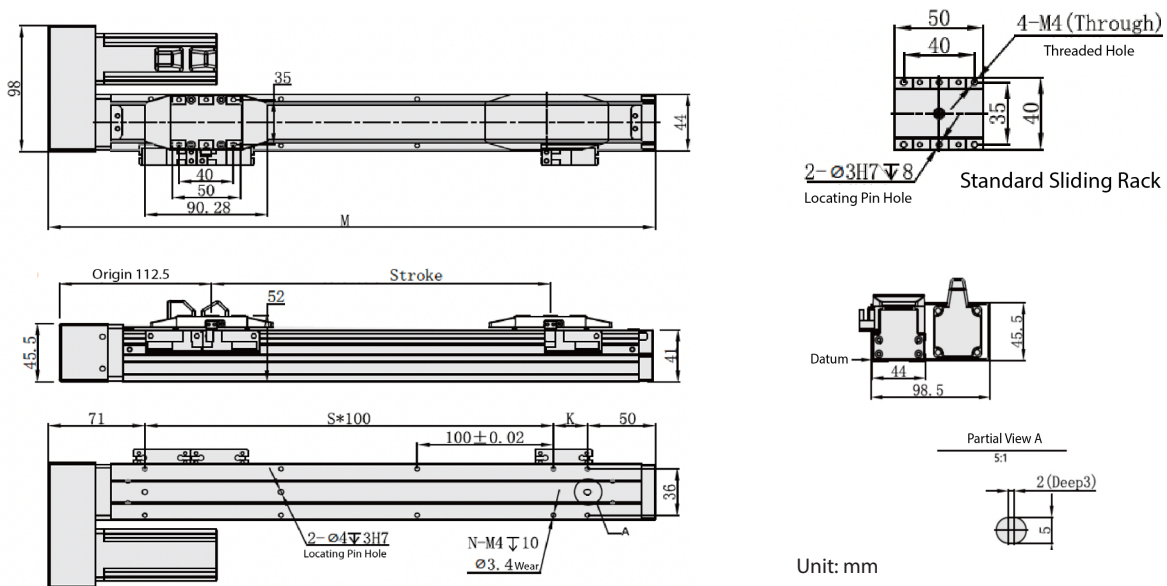
BL (Left Side):



Working Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
M	246	296	346	396	446	496	546	496	646	696	746	796	846	896	946	996
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
S	1	1	2	2	3	3	4	2	5	5	6	6	7	7	8	8
K	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
KG	1.04	1.22	1.40	1.58	1.76	1.94	2.12	2.30	2.48	2.66	2.84	3.02	3.20	3.38	3.56	3.74

Please contact orders@machmo.com for assistance if a custom stroke outside of above parameters is needed.

BR (Right Side):

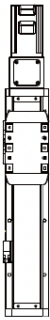


Working Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
M	246	296	346	396	446	496	546	596	646	696	746	796	846	896	946	996
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
S	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
K	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
KG	1.04	1.22	1.40	1.58	1.76	1.94	2.12	2.30	2.48	2.66	2.84	3.02	3.20	3.38	3.56	3.74

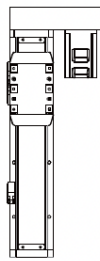
Please contact orders@machmo.com for assistance if a custom stroke outside of above parameters is needed.



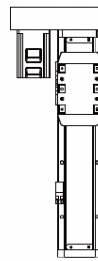
Motor Mount Location



Inline



Right Side



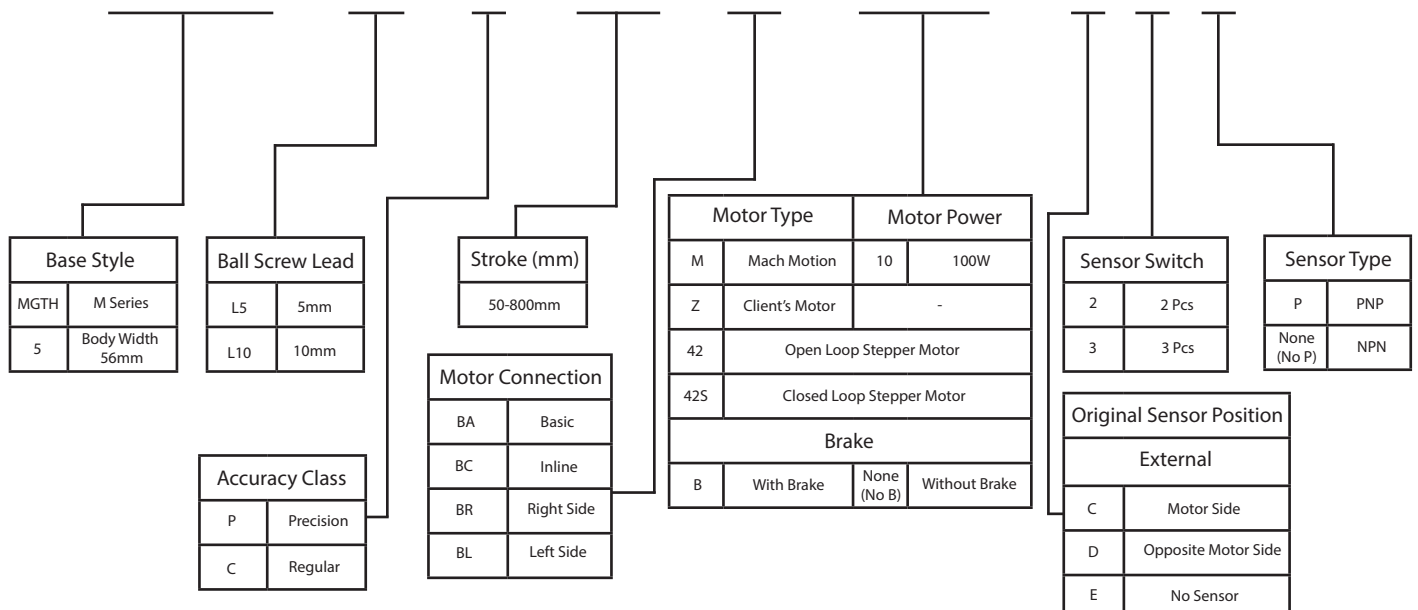
Left Side



Down Side

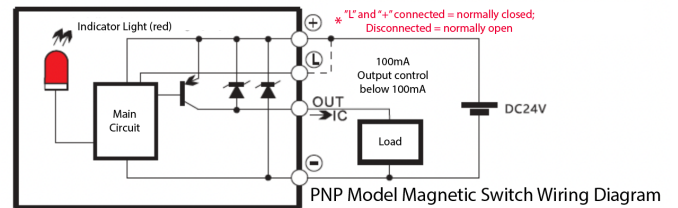
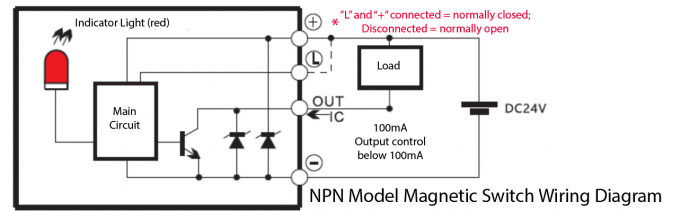
Model Selection Guide

MGTH5 - L5 - C - S50 - BC - ZP10B - C 3 P



Technical Specifications

Motor Power AC (W)		100W	
Repeatability (mm)		C7	± 0.01
		C5	± 0.006
Lead (mm)		5	10
Maximum Handling Weight	Horizontal	30	15
	Vertical	10	5
Range of Stroke (mm)		50-800mm / 50 (Interval)	
Ball Screw Diameter (mm)		ø12	
Coupling (mm)		7 x 8	
Home Sensor		Outside EE-SX672(NPN) EE-SX672P(PNP)	
		Track Installation EE-SX672(NPN) EE-SX672P(PNP)	



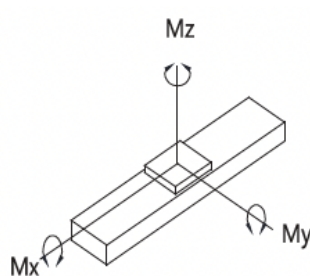
Notes:

1. Motor acceleration and deceleration value is set to 0.2 seconds.
2. Repeatability is within 300mm stroke - longer stroke will result in lower value.
3. If stroke of 600mm+ leads to swing of ball screw, please reduce speed by 15%. Please note if the motor size is the same, or coupler and mounting plate need replaced.

Stroke (mm) & Maximum Speed (mm/s)

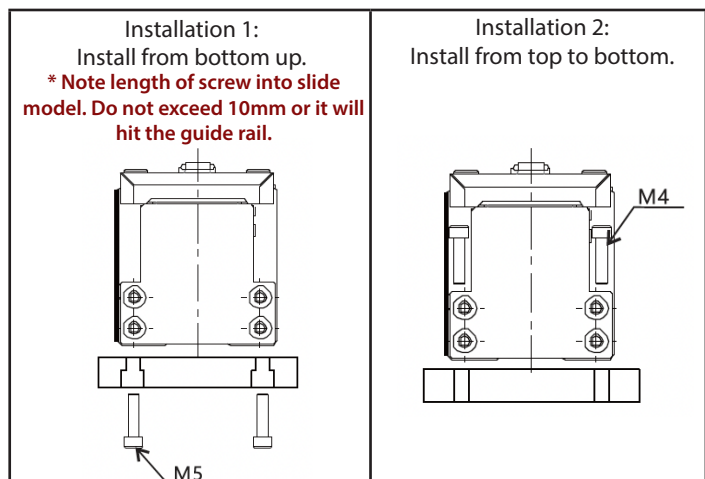
Model	C7 Ball Screw Spec		Stroke (mm) & Maximum Speed (mm/s)				
	Outer Diameter (mm)	Lead (mm)	≤ 600	650	700	750	800
MGTH5	ø12	5	250	228	201	178	158
		10	500	456	401	355	317

Maximum Static Torque

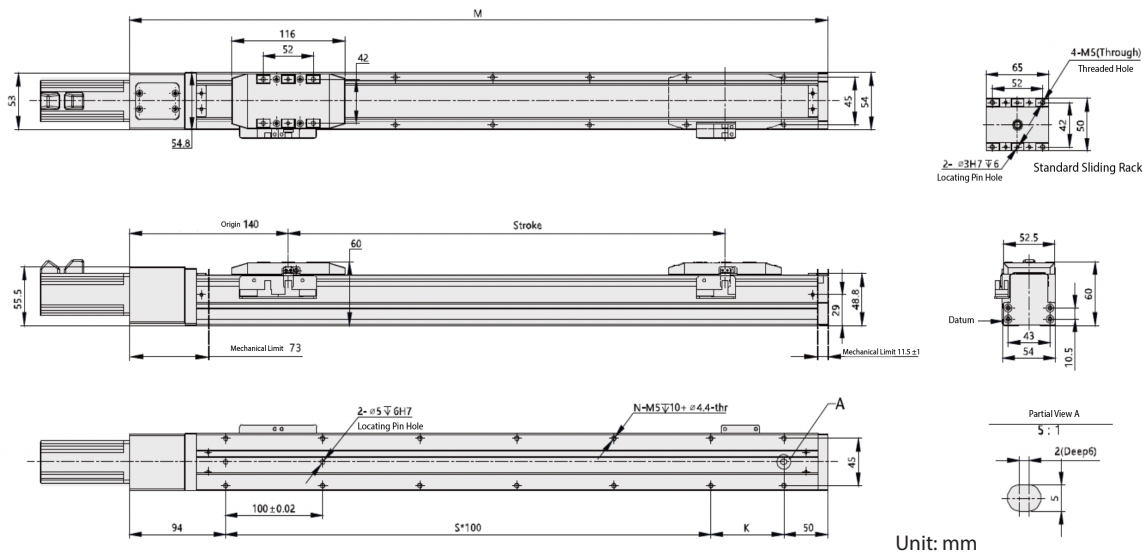


Mz	103
My	103
Mx	114

Installation Instructions & Dimensions



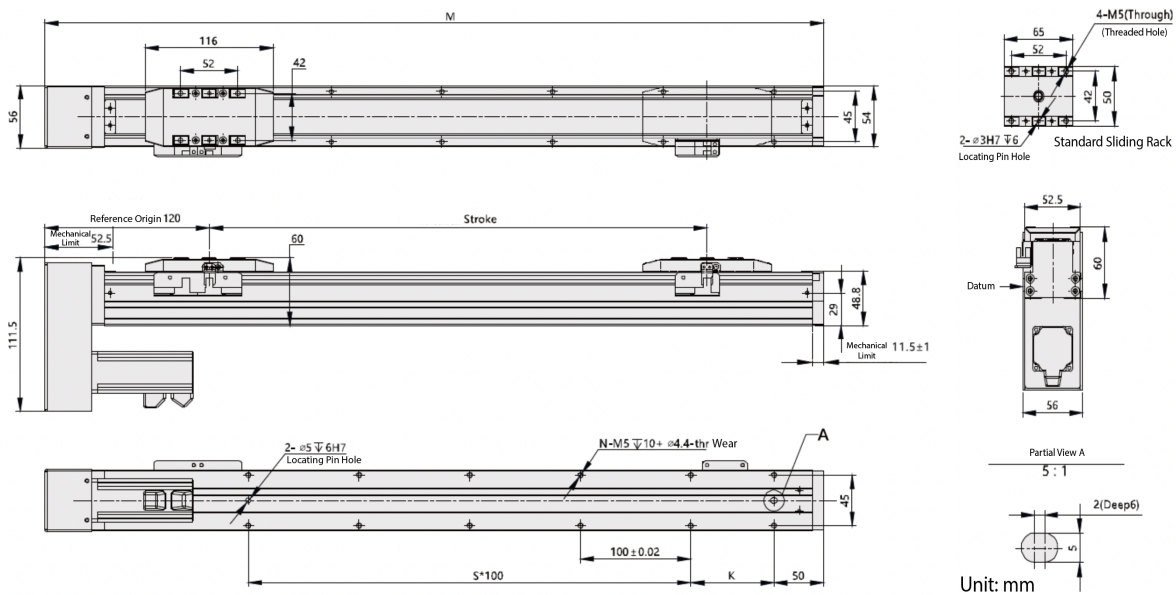
BC (Inline):



Working Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
M	269	319	369	419	469	519	569	619	669	719	769	819	869	919	969	1,019
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
S	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
K	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75

Please contact orders@machmo.com for assistance if a custom stroke outside of above parameters is needed.

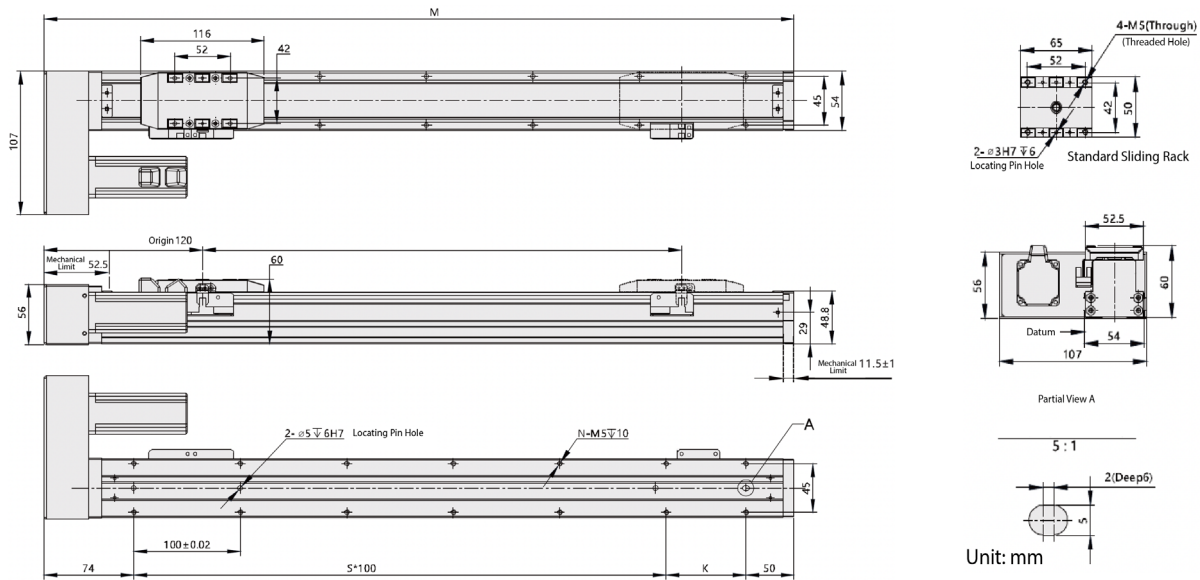
BM (Down Side):



Working Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
M	249	299	349	399	449	499	549	599	649	699	749	799	849	899	949	999
N	4	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18
S	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7
K	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75

Please contact orders@machmo.com for assistance if a custom stroke outside of above parameters is needed.

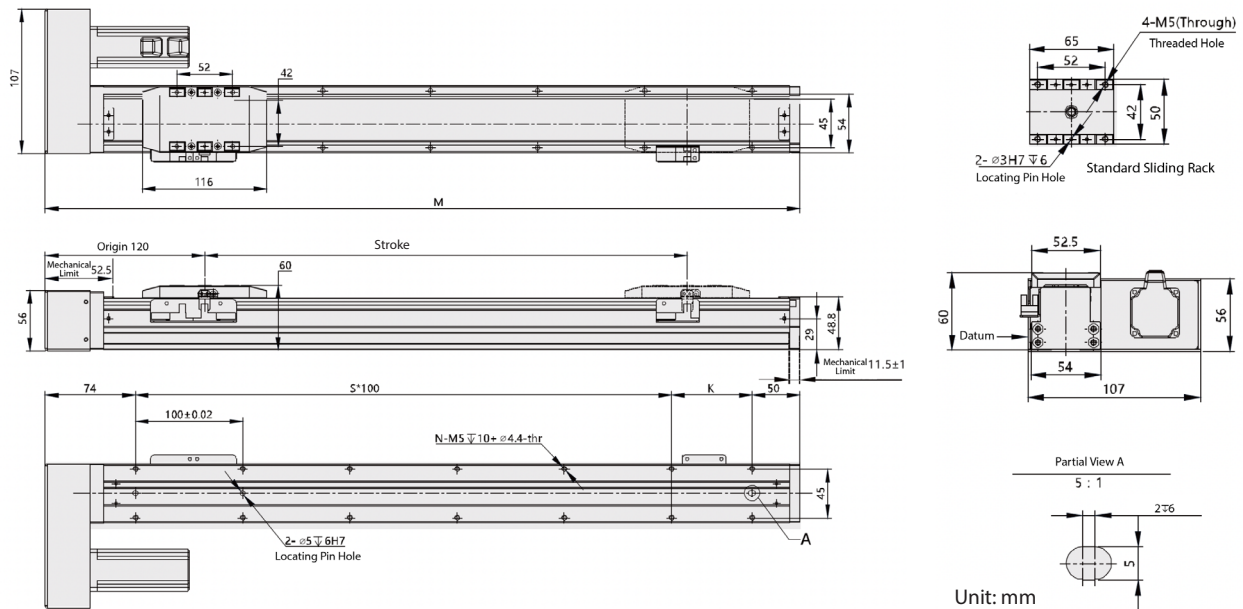
BL (Left Side):



Working Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
M	249	299	349	399	449	499	549	599	649	699	749	799	849	899	949	999
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
S	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
K	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75

Please contact orders@machmo.com for assistance if a custom stroke outside of above parameters is needed.

BR (Right Side):

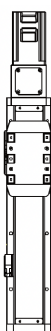


Working Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
M	249	299	349	399	449	499	549	599	649	699	749	799	849	899	949	999
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
S	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
K	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75

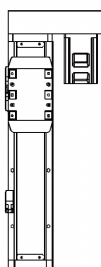
Please contact orders@machmo.com for assistance if a custom stroke outside of above parameters is needed.



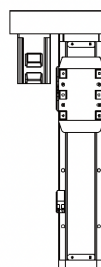
Motor Mount Location



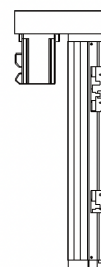
Inline



Right Side



Left Side



Down Side

Model Selection Guide

MGTH8 - L5 - C - S50 - BC - ZP20B - C 3 P

Base Style	
MGTH	M Series
8	Body Width 82mm

Ball Screw Lead	
L5	5mm
L10	10mm
L20	20mm

Accuracy Class	
P	Precision
C	Regular

Stroke (mm)
50-1,000mm

Motor Connection	
BA	Basic
BC	Inline
BR	Right Side
BL	Left Side

Motor Type		Motor Power	
M	Mach Motion	20	200W
Z	Client's Motor	40	400W
42	Open Loop Stepper Motor		
42S	Closed Loop Stepper Motor		
Brake			
B	With Brake	None (No B)	Without Brake

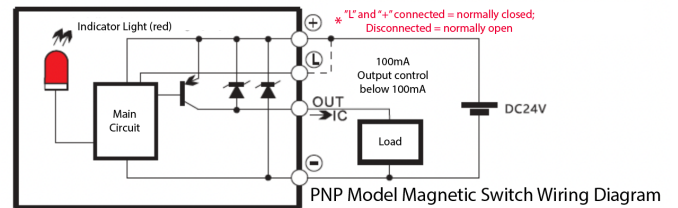
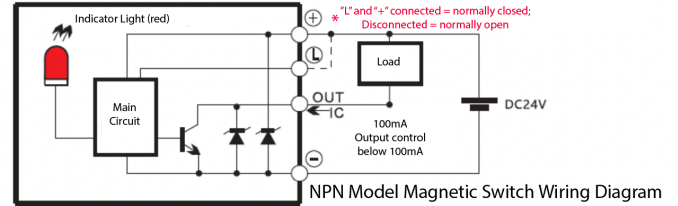
Sensor Switch	
2	2 Pcs
3	3 Pcs

Sensor Type	
P	PNP
None	NPN

Original Sensor Position	
External	
C	Motor Side
D	Opposite Motor Side
E	No Sensor

Technical Specifications

Motor Power AC (W)		200W / 400 W		
Repeatability (mm)		C7	± 0.01	
		C5	± 0.006	
Ball Screw Lead (mm)		5	10	20
Maximum Payload (kg)	Horizontal	50	30	12
	Vertical	15	8	2.5
Range of Stroke (mm)		50-1,050mm / 50 (Interval)		
Ball Screw Diameter (mm)		$\phi 16$		
Coupling (mm)		10x11 / 10x14		
Home Sensor		Outside EE-SX674(NPN) EE-SX674P(PNP)		
		Track Installation EE-SX674(NPN) EE-SX674P(PNP)		



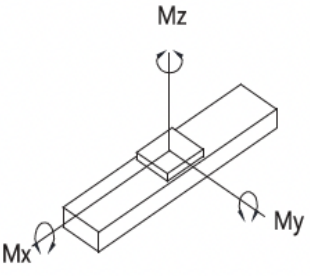
Notes:

1. Motor acceleration and deceleration value is set to 0.2 seconds.
2. Repeatability is within 300mm stroke - longer stroke will result in lower value.
3. If stroke of 650mm+ leads to swing of ball screw, please reduce speed by 15%. Please note if the motor size is the same, or coupler and mounting plate need replaced.

Stroke (mm) & Maximum Speed (mm/s)

Model	C7 Ball Screw Spec		Stroke (mm) & Maximum Speed (mm/s)								
	Outer Diameter (mm)	Lead (mm)	≤ 650	700	750	800	850	900	950	1,000	1,050
MGTH8	$\phi 16$	5	250	246	218	194	174	157	143	130	119
		10	500	492	435	388	349	315	285	260	238
		20	1,000	983	871	777	697	629	571	520	476

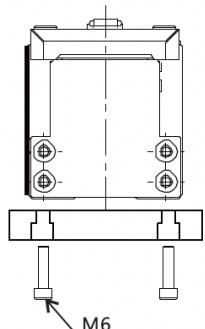
Maximum Static Torque



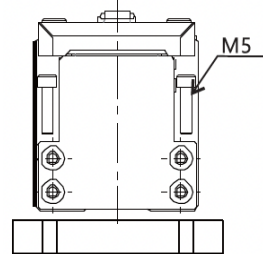
Mz	318
My	318
Mx	626

Installation Instructions & Dimensions

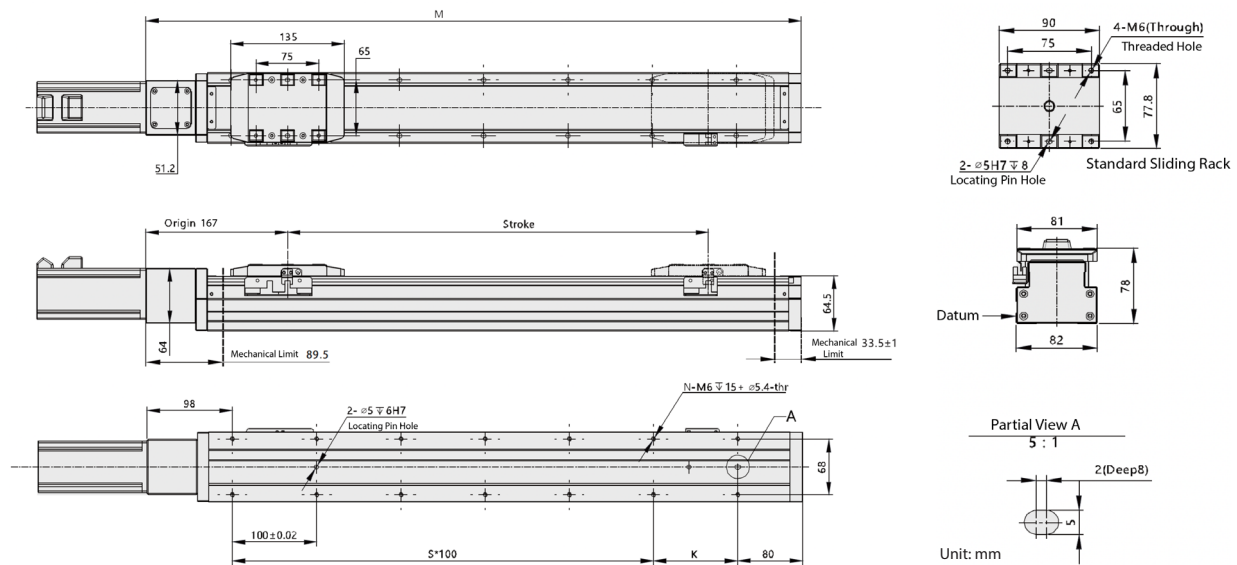
Installation 1:
Install from bottom up.
* Note length of screw into slide model. Do not exceed 10mm or it will hit the guide rail.



Installation 2:
Install from top to bottom.



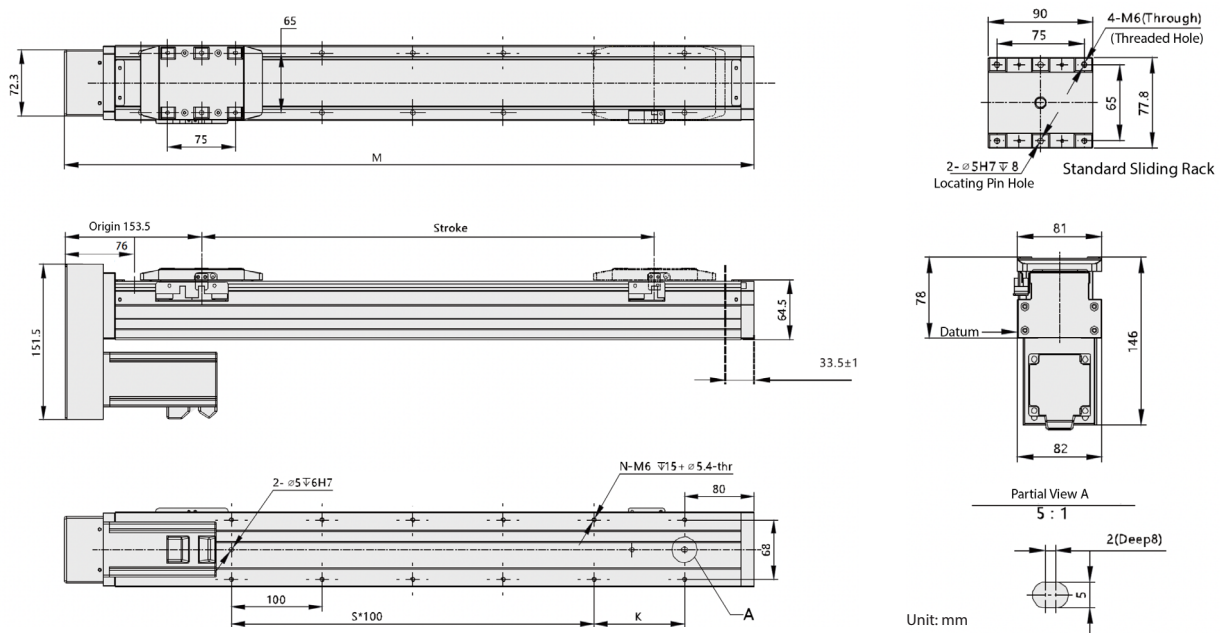
BC (Inline):



Working Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
M	328	378	428	478	528	578	628	678	728	778	828	878	928	978	1,028	1,078
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
S	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
K	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100

Please contact orders@machmo.com for assistance if a custom stroke outside of above parameters is needed.

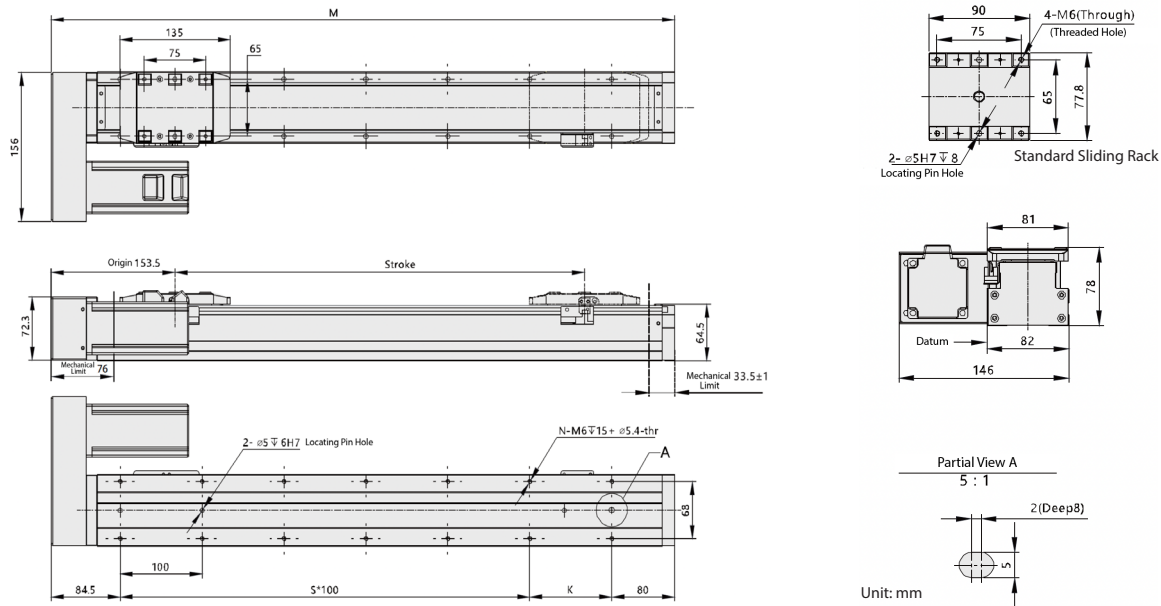
BM (Down Side):



Working Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
M	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1,014.5	1,064.5
N	4	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18
S	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7
K	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100

Please contact orders@machmo.com for assistance if a custom stroke outside of above parameters is needed.

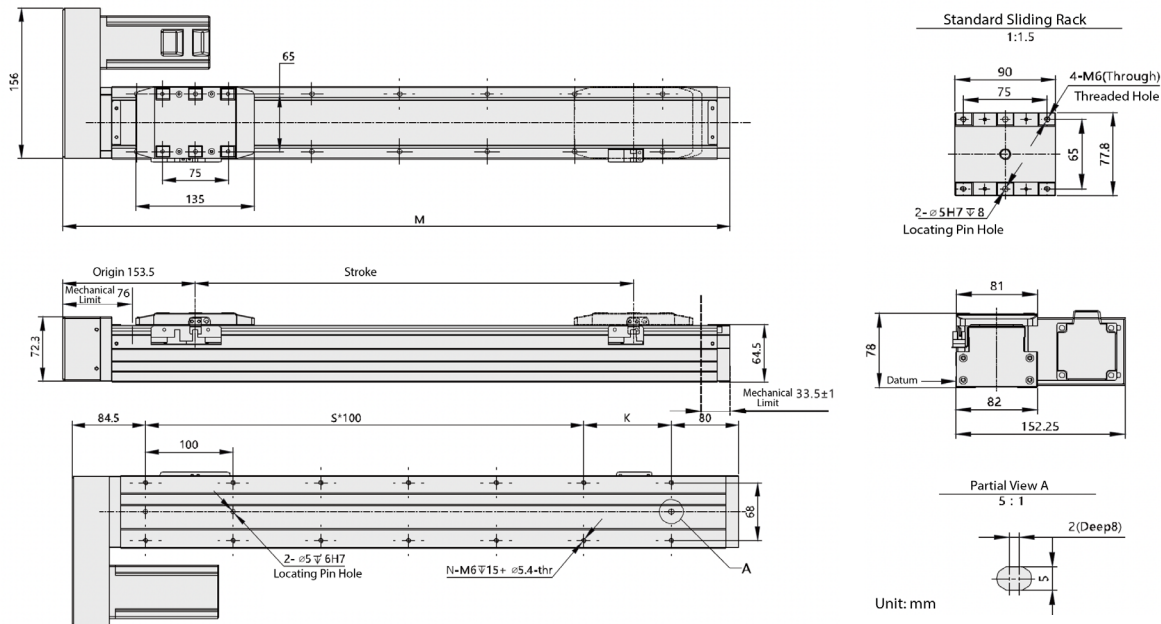
BL (Left Side):



Working Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
M	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1,014.5	1,064.5
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
S	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
K	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100

Please contact orders@machmo.com for assistance if a custom stroke outside of above parameters is needed.

BR (Right Side):

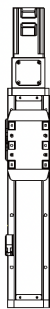


Working Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
M	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1,014.5	1,064.5
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
S	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
K	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100

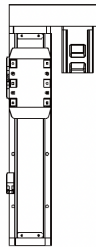
Please contact orders@machmo.com for assistance if a custom stroke outside of above parameters is needed.



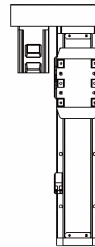
Motor Mount Location



Inline



Right Side



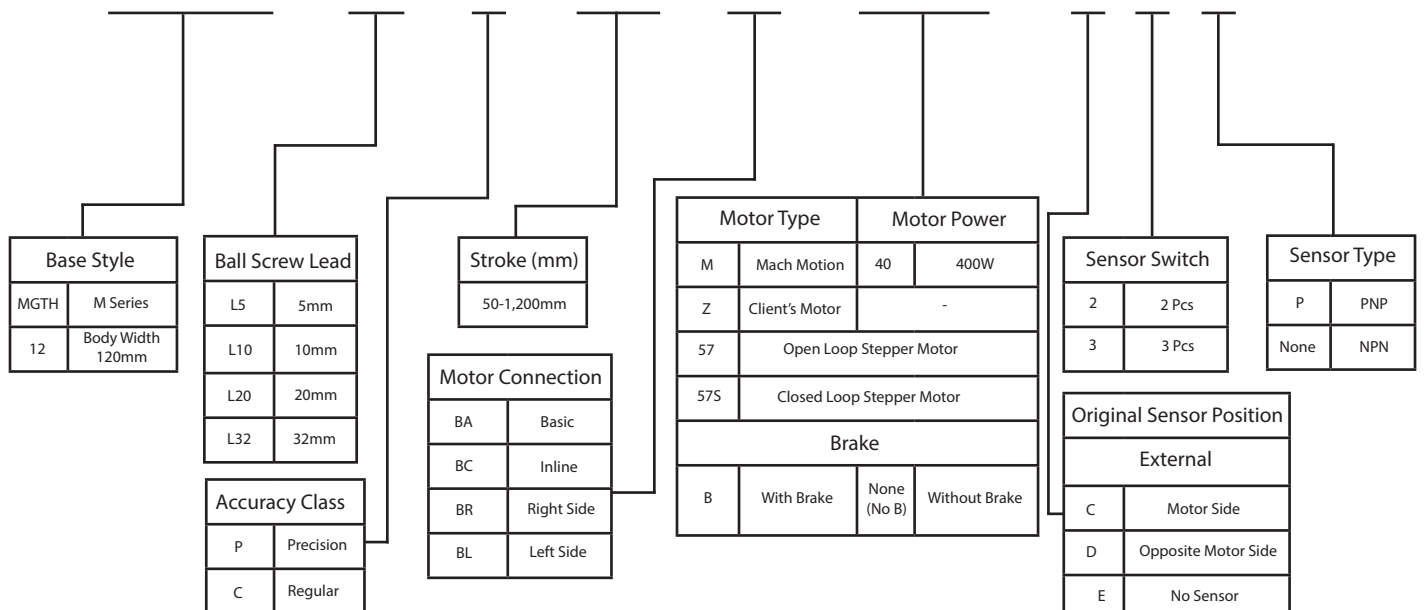
Left Side



Down Side

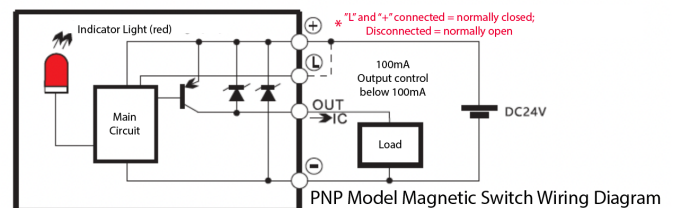
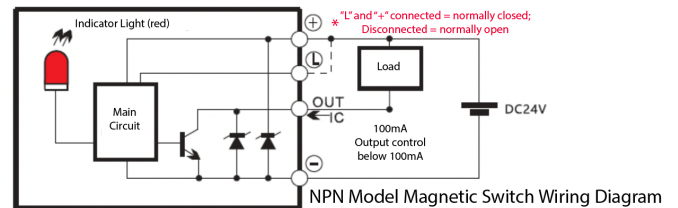
Model Selection Guide

MGTH12 - L5 - C - S50 - BC - ZP40B - C 3 P



Technical Specifications

Motor Power AC (W)		400W			
Repeatability (mm)		C7		± 0.01	
		C5		± 0.006	
Ball Screw Lead (mm)		5	10	20	32
Maximum Payload (kg)	Horizontal	110	88	40	30
	Vertical	33	22	10	8
Range of Stroke (mm)		50-1,250mm / 50 (Interval)			
Ball Screw Diameter		$\phi 16$			
Coupling (mm)		10 x 14			
Home Sensor		Magnetic Sensor DMSH-PNP			
		Magnetic Sensor DMSH-NPN			



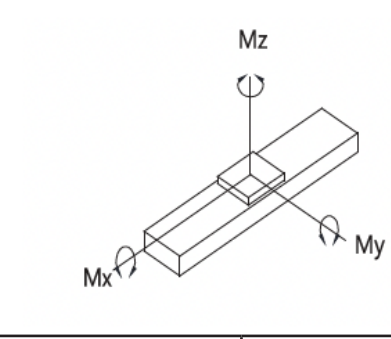
Notes:

1. Motor acceleration and deceleration value is set to 0.2 seconds.
2. Repeatability is within 300mm stroke - longer stroke will result in lower value.
3. If stroke of 650mm+ leads to swing of ball screw, please reduce speed by 15%. Please note if the motor size is the same, or coupler and mounting plate need replaced.

Stroke (mm) & Maximum Speed (mm/s)

Model	C7 Ball Screw Spec		Stroke (mm) & Maximum Speed (mm/s)												
	Outer Diameter (mm)	Lead (mm)	≤ 650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250
MGTH12	ø16	5	250	246	218	194	174	157	157	143	130	109	86	84	71
		10	500	492	435	388	349	315	285	260	238	218	186	160	131
		20	1,000	983	871	777	697	629	571	520	476	437	374	322	263
		32	1,600	1,573	1,393	1,243	1,115	1,007	913	832	761	699	644	596	552

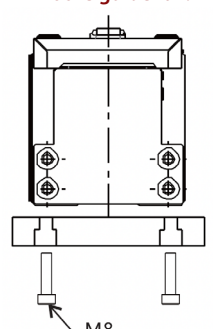
Maximum Static Torque



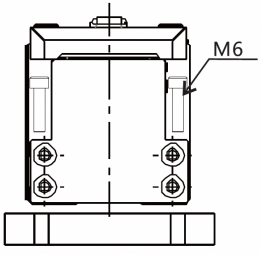
Mz	606
My	606
Mx	1,168

Installation Instructions & Dimensions

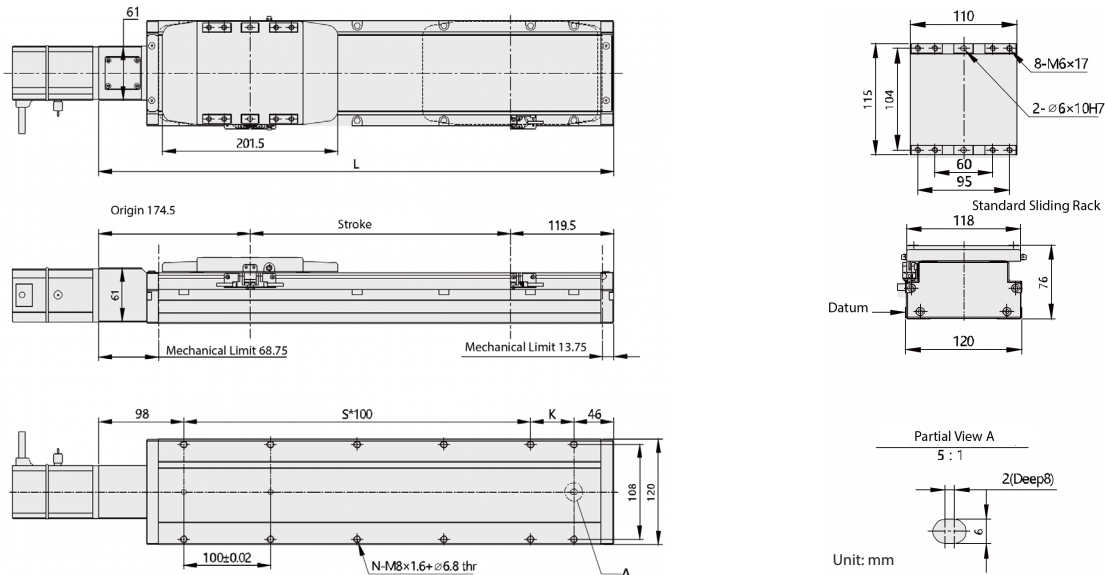
Installation 1:
Install from bottom up.
* Note length of screw into slide model. Do not exceed 10mm or it will hit the guide rail.



Installation 2:
Install from top to bottom.



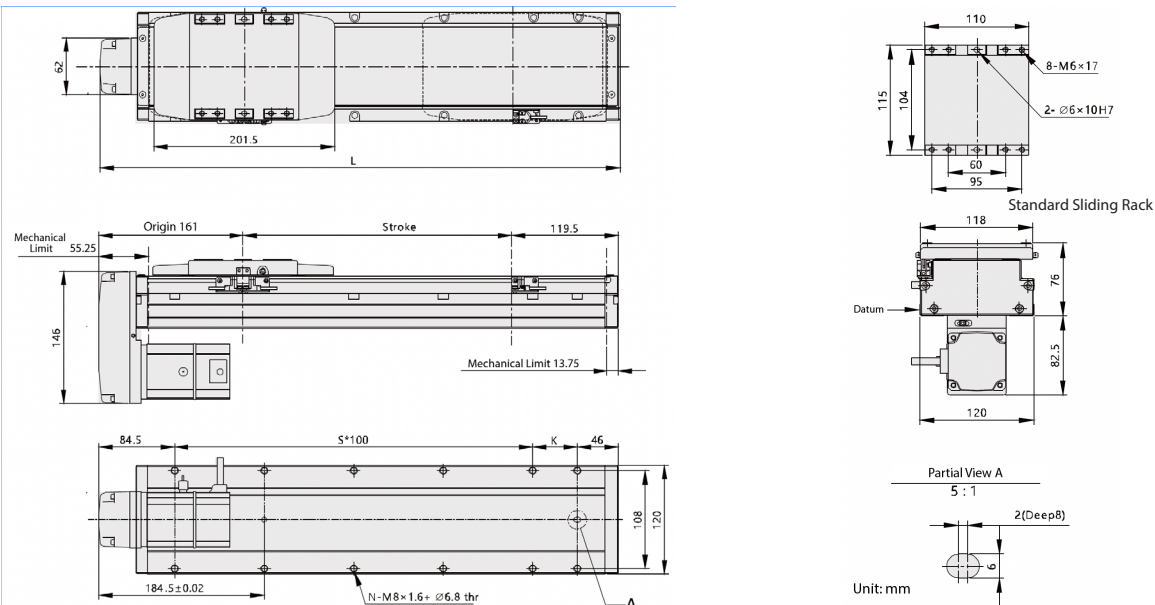
BC (Inline):



Working Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250
M	344	394	444	494	544	594	644	694	744	794	844	894	944	994	1,044	1,094	1,144	1,194	1,244	1,294	1,344	1,394	1,444	1,494	1,544
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
S	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
K	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
kg	5.05	5.4	5.75	6.1	6.45	6.8	7.15	7.5	7.85	8.2	8.55	8.9	9.25	9.6	9.95	10.3	10.65	11	11.35	11.7	12.05	12.4	12.75	13.1	13.45

Please contact orders@machmo.com for assistance if a custom stroke outside of above parameters is needed.

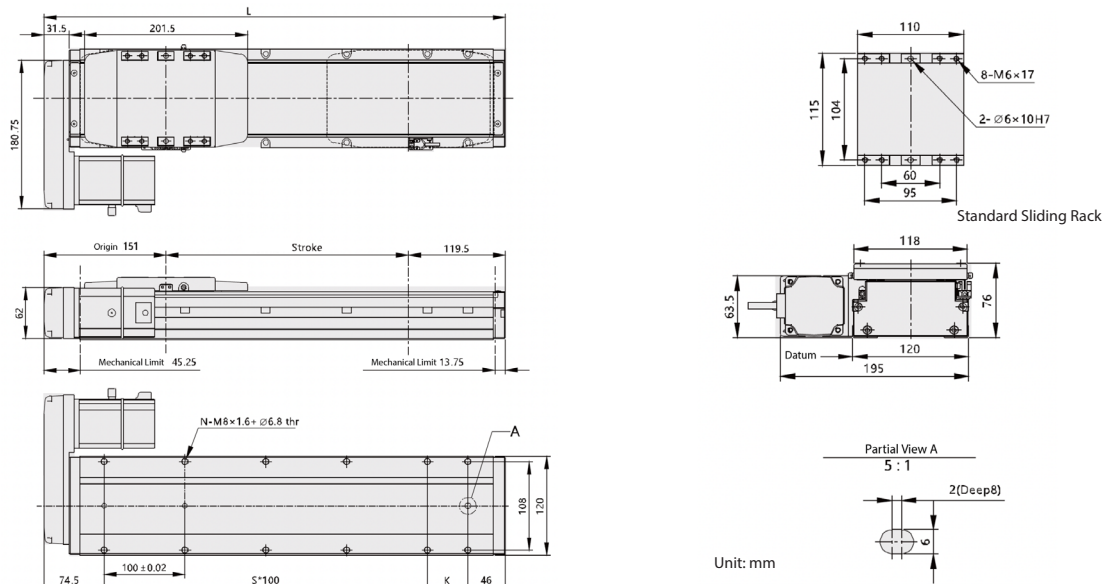
BM (Down Side):



Working Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250
M	330.5	380.5	430.5	480.5	530.5	580.5	630.5	680.5	730.5	780.5	830.5	880.5	930.5	980.5	1,030.5	1,080.5	1,130.5	1,180.5	1,230.5	1,280.5	1,330.5	1,380.5	1,430.5	1,480.5	1,530.5
N	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28
S	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
K	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
kg	5.21	5.56	5.91	6.26	6.61	6.96	7.31	7.66	8.01	8.36	8.71	9.06	9.41	9.76	10.11	10.46	10.81	11.16	11.51	11.86	12.21	12.56	12.91	13.26	13.61

Please contact orders@machmo.com for assistance if a custom stroke outside of above parameters is needed.

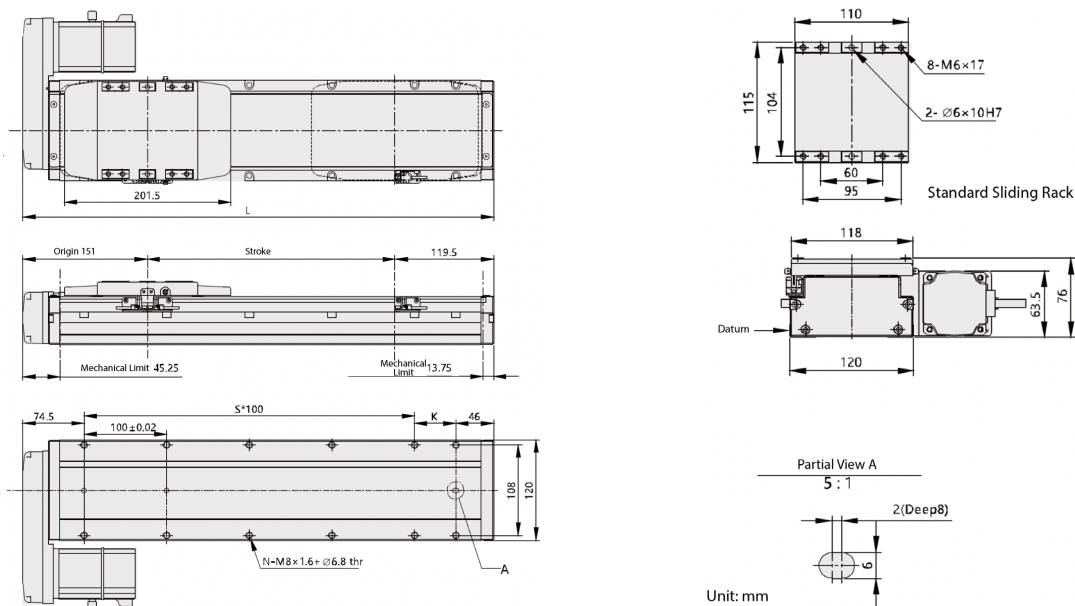
BL (Left Side):



Working Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250
M	320.5	370.5	420.5	470.5	520.5	570.5	620.5	670.5	720.5	770.5	820.5	870.5	920.5	970.5	1,020.5	1,070.5	1,120.5	1,170.5	1,220.5	1,270.5	1,320.5	1,370.5	1,420.5	1,470.5	1,520.5
N	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28
S	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
K	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
kg	5.21	5.56	5.91	6.26	6.61	6.96	7.31	7.66	8.01	8.36	8.71	9.06	9.41	9.76	10.11	10.46	10.81	11.16	11.51	11.86	12.21	12.56	12.91	13.26	13.61

Please contact orders@machmo.com for assistance if a custom stroke outside of above parameters is needed.

BR (Right Side):

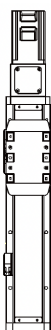


Working Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250
M	320.5	370.5	420.5	470.5	520.5	570.5	620.5	670.5	720.5	770.5	820.5	870.5	920.5	970.5	1,020.5	1,070.5	1,120.5	1,170.5	1,220.5	1,270.5	1,320.5	1,370.5	1,420.5	1,470.5	1,520.5
N	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28
S	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
K	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
kg	5.21	5.56	5.91	6.26	6.61	6.96	7.31	7.66	8.01	8.36	8.71	9.06	9.41	9.76	10.11	10.46	10.81	11.16	11.51	11.86	12.21	12.56	12.91	13.26	13.61

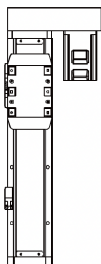
Please contact orders@machmo.com for assistance if a custom stroke outside of above parameters is needed.



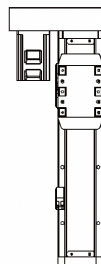
Motor Mount Location



Inline



Right Side



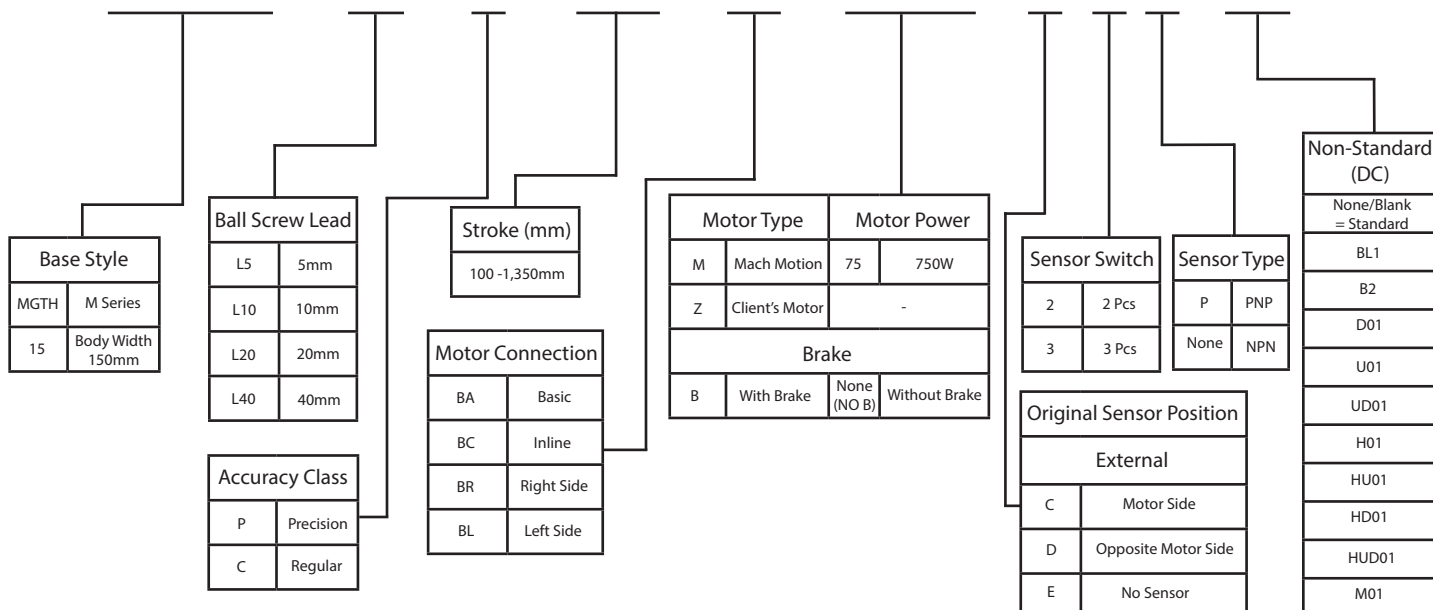
Left Side



Down Side

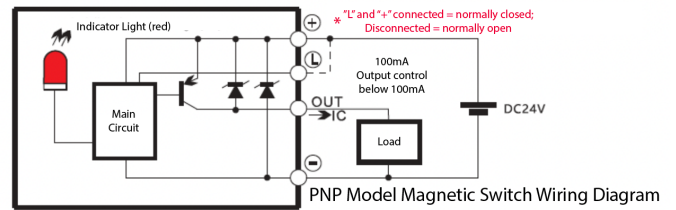
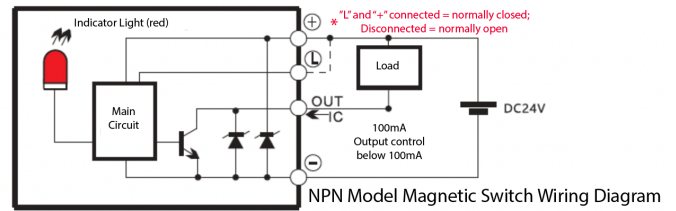
Model Selection Guide

MGTH15 - L10 - C - S100 - BC - ZP75B - C 3 P -



Technical Specifications

Motor Power AC (W)		750W				
Ball Screw Diameter (mm)		C7	20			
		C5	20			
Repeatability (mm)		C7	± 0.01			
		C5	± 0.006			
Ball Screw Lead (mm)		5	10	20	40	/
Maximum Payload (kg)	Horizontal	120	120	83	43	/
	Vertical	50	40	25	12	/
Rated Thrust (N)		2,550	1,275	640	320	/
Linear Guide (mm)		15 x 12.5 -2				
Coupling (mm) Motor Side x Ball Screw Side		12 x 19				
Home Sensor		Outside EE-SX674(NPN) EE-SX674P(PNP)				



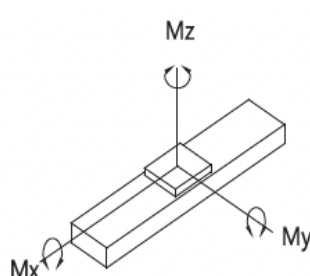
Notes:

1. Motor acceleration and deceleration value is set to 0.2 seconds.
2. Repeatability is within 300mm stroke - longer stroke will result in lower value.
3. If stroke of 650mm+ leads to swing of ball screw, please reduce speed by 15%. Please note if the motor size is the same, or coupler and mounting plate need replaced.

Stroke (mm) & Maximum Speed (mm/s)

Model	C7 Ball Screw Spec		Stroke (mm) & Maximum Speed (mm/s)												
	Outer Diameter (mm)	Lead (mm)	≤ 800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350	1,400
MGTH15	ø20	5	250	220	200	182	167	153	141	130	121	112	105	98	92
		10	500	440	399	364	333	306	282	261	242	225	209	196	182
		20	1,000	881	799	728	666	612	564	521	483	449	419	391	363
		40	2,000	1,762	1,598	1,456	1,332	1,223	1,127	1,042	967	899	838	783	726

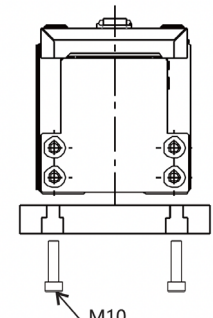
Maximum Static Torque



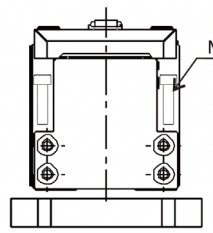
Mz	780
My	780
Mx	690

Installation Instructions & Dimensions

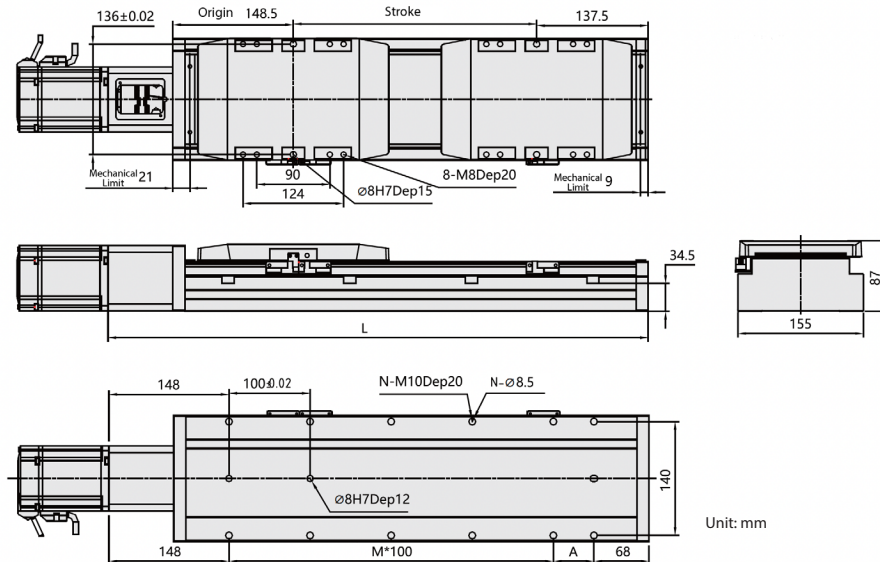
Installation 1:
Install from bottom up.
* Note length of screw into slide model. Do not exceed 10mm or it will hit the guide rail.



Installation 2:
Install from top to bottom.



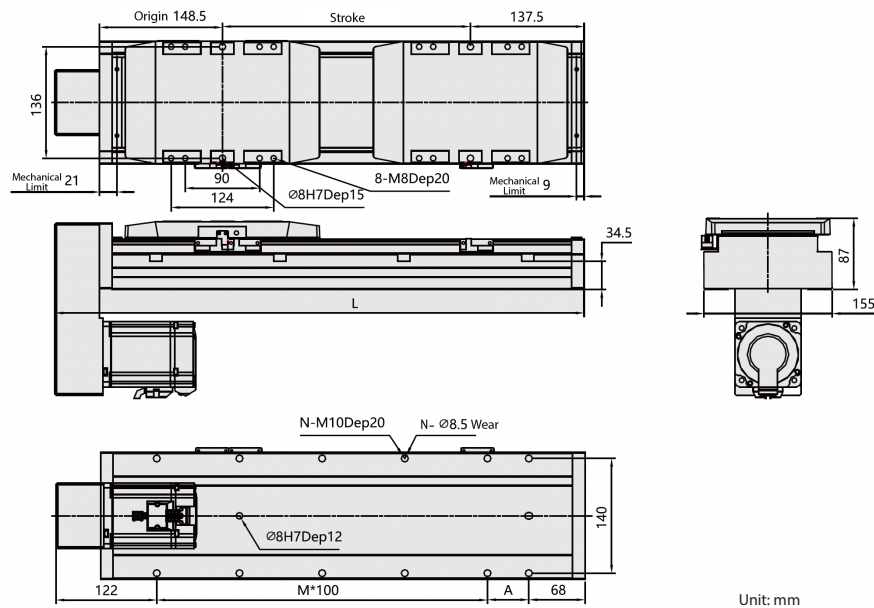
BC (Inline):



Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350
L	466	516	566	616	666	716	766	816	866	916	966	1,016	1,066	1,116	1,166	1,216	1,266	1,316	1,366	1,416	1,466	1,516	1,566	1,616	1,666	1,716
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14
N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32
kg	10.0	10.8	11.6	12.4	13.2	14.0	14.8	15.6	16.4	17.2	18.0	18.8	19.6	20.4	21.2	22.0	22.8	23.6	24.4	25.2	26.0	26.8	27.6	28.4	29.2	30.0

Please contact orders@machmo.com for assistance if a custom stroke outside of above parameters is needed.

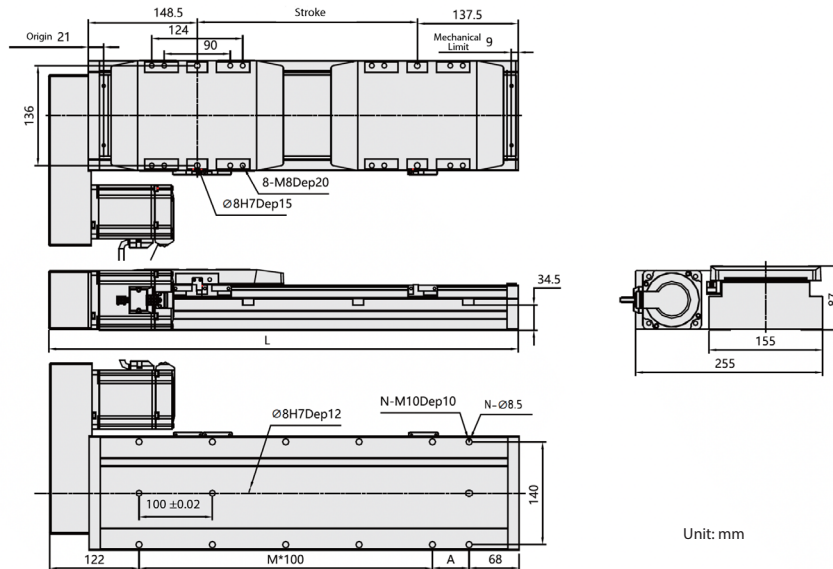
BM (Down Side):



Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350
L	440	490	540	590	640	690	740	790	840	890	940	990	1,040	1,090	1,140	1,190	1,240	1,290	1,340	1,390	1,440	1,490	1,540	1,590	1,640	1,690
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14
N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32
kg	10.3	11.1	11.9	12.7	13.5	14.3	15.1	15.9	16.7	17.5	18.3	19.1	19.9	20.7	21.5	22.3	23.1	23.9	24.7	25.5	26.3	27.1	27.9	28.7	29.5	30.3

Please contact orders@machmo.com for assistance if a custom stroke outside of above parameters is needed.

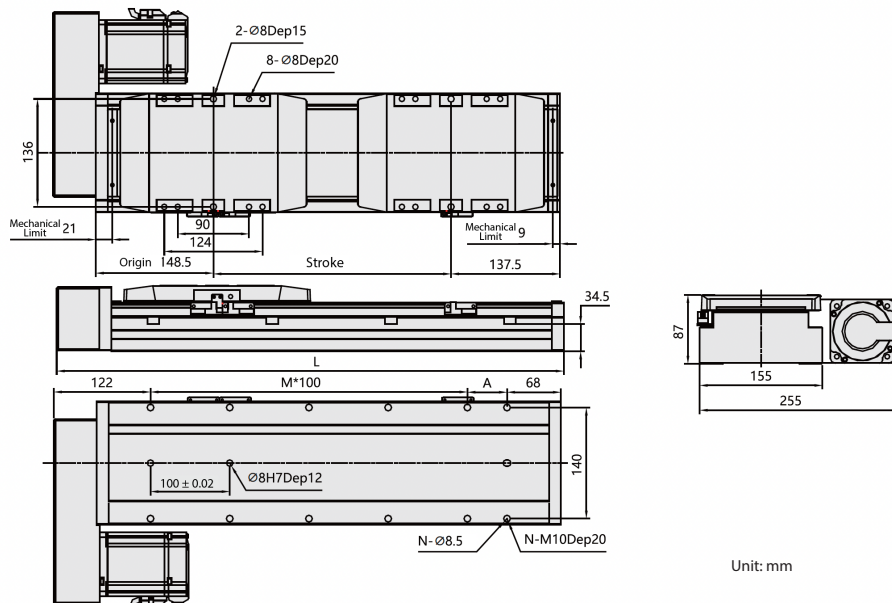
BL (Left Side):



Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350
L	440	490	540	590	640	690	740	790	840	890	940	990	1,040	1,090	1,140	1,190	1,240	1,290	1,340	1,390	1,440	1,490	1,540	1,590	1,640	1,690
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14
N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32
kg	10.3	11.1	11.9	12.7	13.5	14.3	15.1	15.9	16.7	17.5	18.3	19.1	19.9	20.7	21.5	22.3	23.1	23.9	24.7	25.5	26.3	27.1	27.9	28.7	29.5	30.3

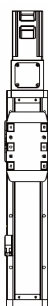
Please contact orders@machmo.com for assistance if a custom stroke outside of above parameters is needed.

BR (Right Side):

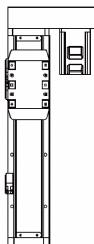


Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350
L	440	490	540	590	640	690	740	790	840	890	940	990	1,040	1,090	1,140	1,190	1,240	1,290	1,340	1,390	1,440	1,490	1,540	1,590	1,640	1,690
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14
N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32
kg	10.3	11.1	11.9	12.7	13.5	14.3	15.1	15.9	16.7	17.5	18.3	19.1	19.9	20.7	21.5	22.3	23.1	23.9	24.7	25.5	26.3	27.1	27.9	28.7	29.5	30.3

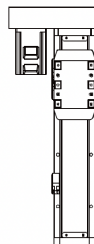
Please contact orders@machmo.com for assistance if a custom stroke outside of above parameters is needed.



Inline



Right Side



Left Side



Down Side

MGTH20 - L10 - C - S100 - BC - ZP75B - C 3 -

Base Style	
MGTH	M Series
20	Body Width 200mm

Ball Screw Lead	
L5	5mm
L10	10mm
L25	25mm

Accuracy Class	
P	Precision
C	Regular

Stroke (mm)
100 -1,350mm

Motor Connection	
BA	Basic
BC	Inline
BR	Right Side
BL	Left Side

Motor Type		Motor Power	
M	Mitsubishi	75	750W
Z	Client's Motor	-	
Brake			
B	With Brake	None (No B)	Without Brake

Sensor Switch	
2	2 Pcs
3	3 Pcs

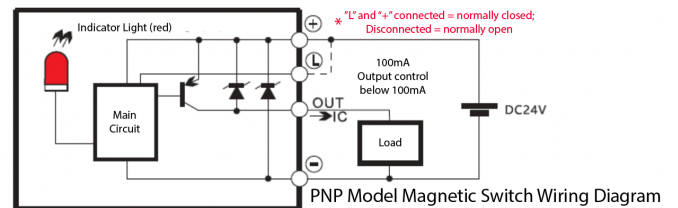
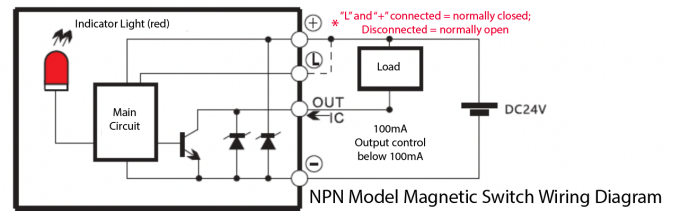
Sensor Type	
P	PNP
None	NPN

Original Sensor Position	
External	
C	Motor Side
D	Opposite Motor Side
E	No Sensor

Non-Standard (DC)
None/Blank = Standard
BL1
B2
D01
U01
UD01
H01
HU01
HD01
HUD01
M01

Technical Specifications

Motor Power AC (W)		750W				
Ball Screw Diameter (mm)	C7	25				
	C5	25				
Repeatability (mm)	C7	± 0.01				
	C5	± 0.006				
Ball Screw Lead (mm)		5	10	25	/	/
Maximum Payload (kg)	Horizontal	150	140	120	/	/
	Vertical	65	54	25	/	/
Rated Thrust (N)		2,100	1,050	420	/	/
Linear Guide (mm)		23 x 18 -2				
Coupling (mm) Motor Side x Ball Screw Side		16 x 19				
Home Sensor		Outside EE-SX674(NPN) EE-SX674P(PNP)				



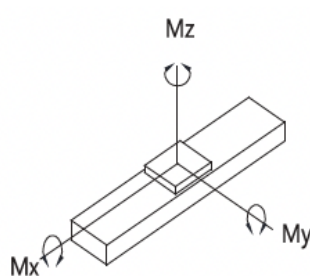
Notes:

1. Motor acceleration and deceleration value is set to 0.2 seconds.
2. Repeatability is within 300mm stroke - longer stroke will result in lower value.
3. If stroke of 650mm+ leads to swing of ball screw, please reduce speed by 15%. Please note if the motor size is the same, or coupler and mounting plate need replaced.

Stroke (mm) & Maximum Speed (mm/s)

Model	C7 Ball Screw Spec		Stroke (mm) & Maximum Speed (mm/s)									
	Outer Diameter (mm)	Lead (mm)	≤ 900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350
MGTH20	ø25	5	250	228	208	191	176	163	151	141	131	122
		10	500	455	417	383	353	326	303	281	262	245
		20	1,250	1,139	1,042	957	882	815	756	703	655	612
		Lead (mm)	1,400	1,450	1,500	1,550	1,600	1,650	1,700	1,750	1,800	/
		5	115	108	101	95	90	80	76	69	63	/
		10	229	215	202	191	180	158	152	139	126	/
		20	574	538	506	477	450	396	380	348	315	/

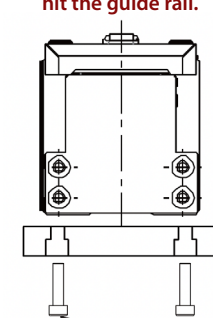
Maximum Static Torque



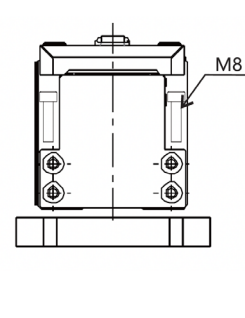
Mz	2,052
My	2,052
Mx	1,810

Installation Instructions & Dimensions

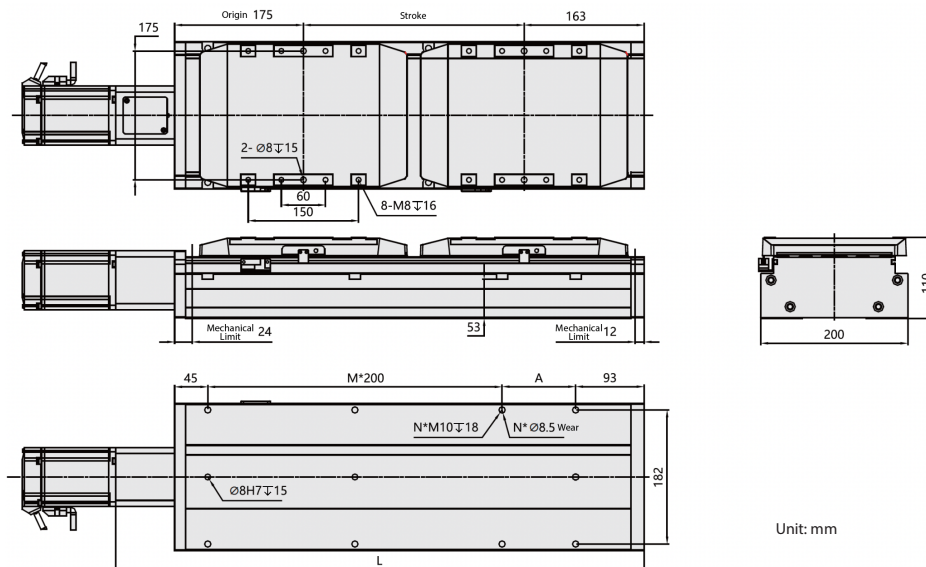
Installation 1:
Install from bottom up.
* Note length of screw into slide model. Do not exceed 10mm or it will hit the guide rail.



Installation 2:
Install from top to bottom.



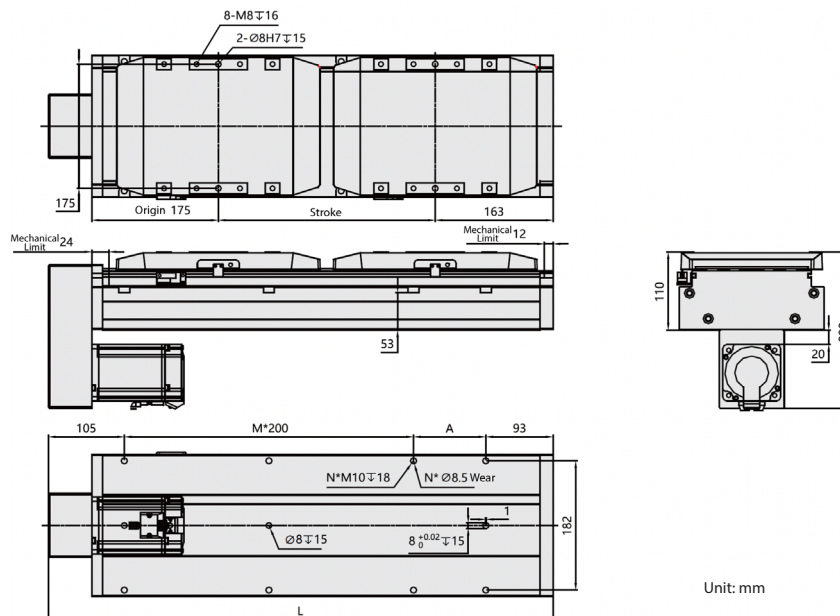
BC (Inline):



Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350
L	518	568	618	668	718	768	818	868	918	968	1,018	1,068	1,118	1,168	1,218	1,268	1,318	1,368	1,418	1,468	1,518	1,568	1,618	1,668	1,718	1,768
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18
kg	15.9	16.9	17.9	18.9	19.9	20.9	21.9	22.9	23.9	24.9	25.9	26.9	27.9	28.9	29.9	30.9	31.9	32.9	33.9	34.9	35.9	36.9	37.9	38.9	39.9	40.9

Please contact orders@machmo.com for assistance if a custom stroke outside of above parameters is needed.

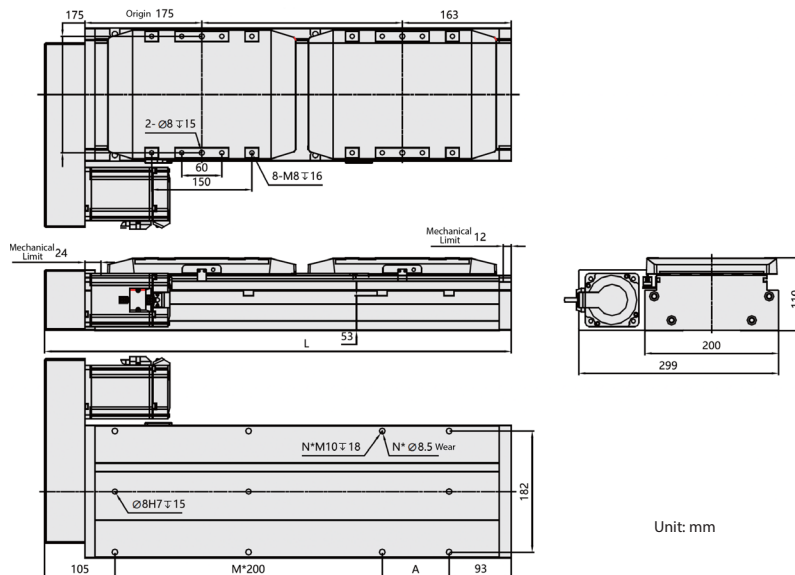
BM (Down Side):



Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350
L	498	548	598	648	698	748	798	848	898	948	998	1,048	1,098	1,148	1,198	1,248	1,298	1,348	1,398	1,448	1,498	1,548	1,598	1,648	1,698	1,748
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18
kg	16.5	17.5	18.5	19.5	20.5	21.5	22.5	23.5	24.5	25.5	25.5	27.5	28.5	29.5	30.5	31.5	32.5	33.5	34.5	35.5	36.5	37.5	38.5	39.5	40.5	41.5

Please contact orders@machmo.com for assistance if a custom stroke outside of above parameters is needed.

BL (Left Side):

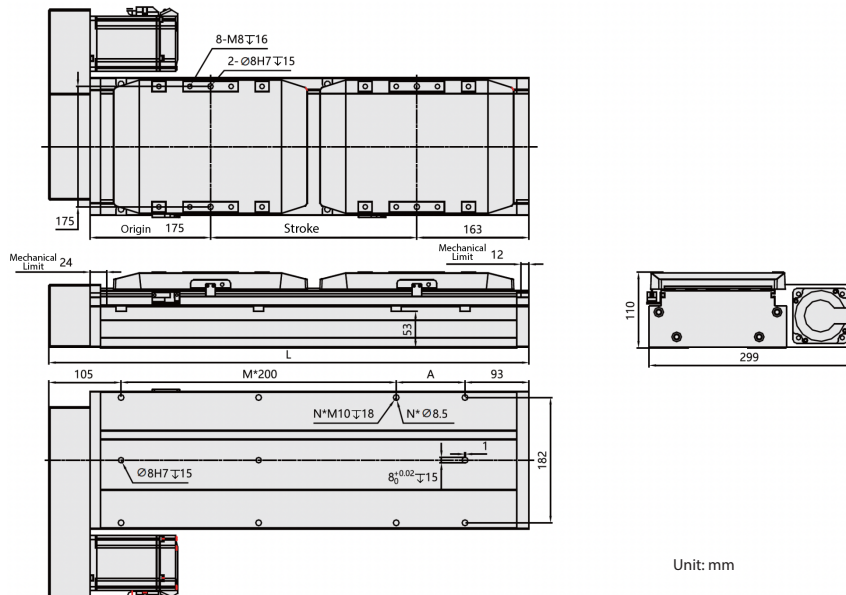


Unit: mm

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350
L	498	548	598	648	698	748	798	848	898	948	998	1,048	1,098	1,148	1,198	1,248	1,298	1,348	1,398	1,448	1,498	1,548	1,598	1,648	1,698	1,748
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18
kg	16.5	17.5	18.5	19.5	20.5	21.5	22.5	23.5	24.5	25.5	25.5	27.5	28.5	29.5	30.5	31.5	32.5	33.5	34.5	35.5	36.5	37.5	38.5	39.5	40.5	41.5

Please contact orders@machmo.com for assistance if a custom stroke outside of above parameters is needed.

BR (Right Side):



Unit: mm

Working Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350
L	498	548	598	648	698	748	798	848	898	948	998	1,048	1,098	1,148	1,198	1,248	1,298	1,348	1,398	1,448	1,498	1,548	1,598	1,648	1,698	1,748
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18
kg	16.5	17.5	18.5	19.5	20.5	21.5	22.5	23.5	24.5	25.5	25.5	27.5	28.5	29.5	30.5	31.5	32.5	33.5	34.5	35.5	36.5	37.5	38.5	39.5	40.5	41.5

Please contact orders@machmo.com for assistance if a custom stroke outside of above parameters is needed.