

### Order example

**MGRM** – **40** – **50** – **N**

**Model**  
MGRM : Countersink lock




**Table width**


MGRM	(mm)
30	30
40	40
60	60
80	80
100	100

**Table length**  
25~510 mm  
( next table )

**Material**  
– : Standard




**B** : Black coating



**N** : Antirust



**S** : Corrosion resisting



### Table length

Table width	Table length (mm)
30	25, 35, 45, 55, 65, 75, 85
40	35, 50, 65, 80, 95, 110, 125, 140, 155, 170, 185
60	55, 80, 105, 130, 155, 180, 205, 230, 255, 280, 305
80	85, 125, 165, 205, 245, 285, 325, 365, 405
100	110, 160, 210, 260, 310, 360, 410, 460, 510

### Material

Indicate Model	Table	Rail	Retainer	Roller
MGRM	Aluminum alloy+ Black anodized	SUJ2	SUS304	SUJ2
MGRM-N	S50C+Ni	SUJ2+Ni	SUS304	SUJ2
MGRM-B	S50C+Phosphate	SUJ2	SUS304	SUJ2
MGRM-S	SUS440C+Ni	SUS304	SUS304	SUS440C

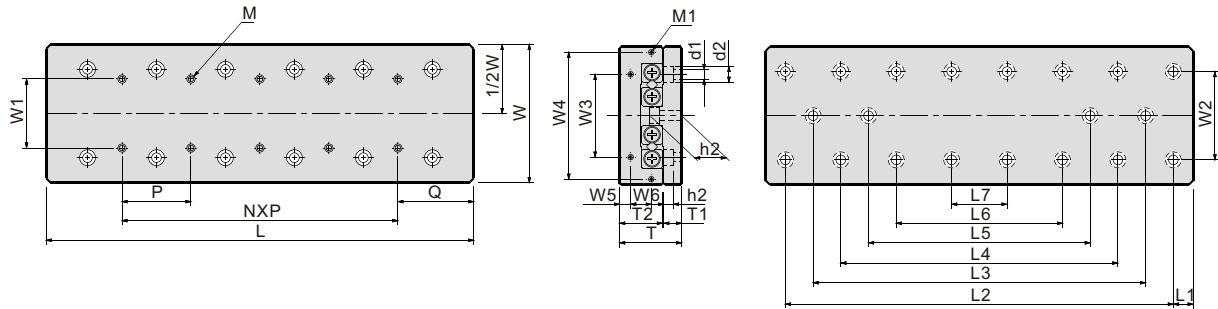
- MGRM-N / MGRM-S no finished to V-groove surface of the rail.
- MGRM-S table and rail are in one unit in this series.

- Table in N series, is antirust, apply to clean room environment.
- Table in S series, is antirust apply to corrosion-resisting, apply to clean room environment.
- Table in B series, is antirust, apply to clean room environment.
- All parts are cryogenic finished to increase 30% durability (refer to O-69) .

# MGRM/ MGRM-B / MGRM-N Dimensions



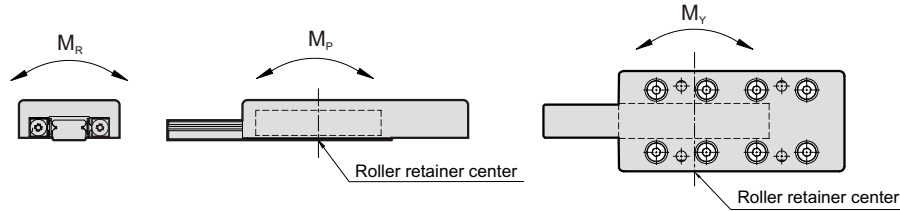
## SLIDE TABLE



(mm)

Model	Max. stroke	Roller dia.	Main dimensions				Mounting dimensions													
			W	T	T <sub>2</sub>	L	W <sub>1</sub>	M	Q	N×P	W <sub>3</sub>	W <sub>4</sub>	W <sub>5</sub>	W <sub>6</sub>	M <sub>1</sub>	W <sub>2</sub>	d <sub>1</sub>	d <sub>2</sub>	h <sub>1</sub>	T <sub>1</sub>
MGRM-30-25	12	φ 1.5	30 <sup>+0.2</sup> <sub>-0.4</sub>	17 <sup>+0.1</sup>	11	25	10	M2×4L	12.5	—	12	—	2.5	—	M2×6L	22	2.5	4.5	2.5	5.5
MGRM-30-35	18					1×10														
MGRM-30-45	25					2×10														
MGRM-30-55	32					3×10														
MGRM-30-65	40					4×10														
MGRM-30-75	45					5×10														
MGRM-30-85	50	6×10																		
MGRM-40-35	18	φ 2.0	40 <sup>+0.2</sup> <sub>-0.4</sub>	21 <sup>+0.1</sup>	14	35	15	M3×6L	17.5	—	16	—	3.4	—	M2×6L	30	3.5	6.5	3.5	6.5
MGRM-40-50	30					1×15														
MGRM-40-65	40					2×15														
MGRM-40-80	50					3×15														
MGRM-40-95	60					4×15														
MGRM-40-110	70					5×15														
MGRM-40-125	80					6×15														
MGRM-40-140	90					7×15														
MGRM-40-155	100					8×15														
MGRM-40-170	110					9×15														
MGRM-40-185	120	10×15																		
MGRM-60-55	30	φ 3.0	60 <sup>+0.1</sup>	28 <sup>+0.1</sup>	18.5	55	25	M4×8L	27.5	—	40	—	5.5	—	M3×6L	40	4.5	8	4.5	9
MGRM-60-80	45					1×25														
MGRM-60-105	60					2×25														
MGRM-60-130	75					3×25														
MGRM-60-155	90					4×25														
MGRM-60-180	105					5×25														
MGRM-60-205	130					6×25														
MGRM-60-230	155					7×25														
MGRM-60-255	180					8×25														
MGRM-60-280	205					9×25														
MGRM-60-305	230	10×25																		
MGRM-80-85	50	φ 4.0	80 <sup>+0.1</sup>	35 <sup>+0.1</sup>	24	85	40	M5×10L	42.5	—	55	—	6.5	—	M3×6L	55	5.5	10	5.4	10.5
MGRM-80-125	75					1×40														
MGRM-80-165	105					2×40														
MGRM-80-205	130					3×40														
MGRM-80-245	155					4×40														
MGRM-80-285	185					5×40														
MGRM-80-325	210					6×40														
MGRM-80-365	235					7×40														
MGRM-80-405	265					8×40														
MGRM-100-110	60					φ 6.0				100 <sup>+0.1</sup>										
MGRM-100-160	95	1×50																		
MGRM-100-210	130	2×50																		
MGRM-100-260	165	3×50																		
MGRM-100-310	200	4×50																		
MGRM-100-360	235	5×50																		
MGRM-100-410	265	6×50																		
MGRM-100-460	300	7×50																		
MGRM-100-510	335	8×50																		

## SLIDE TABLE

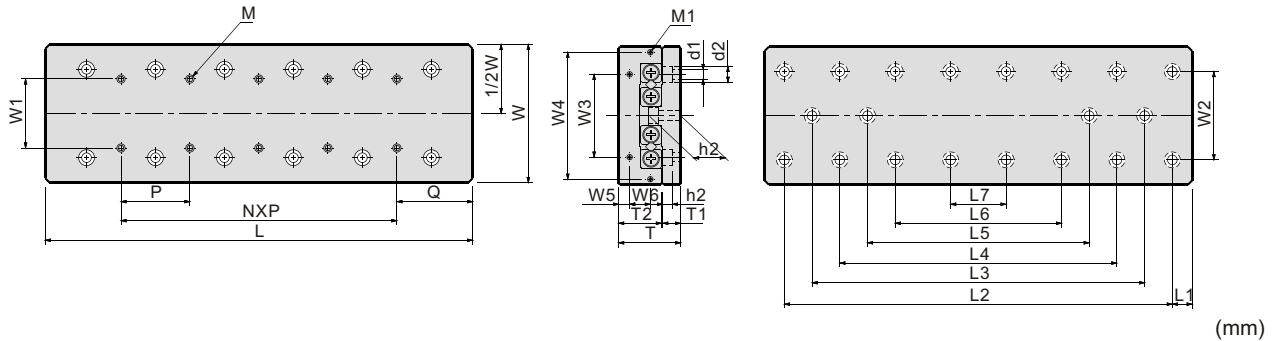


• Each of load and torque changes oppositely in stroke variation.

Base mounting dimensions (mm)								Basic dynamic load rating C(N)	Basic static load rating Co(N)	Allowable load Fu(N)	Static rated moment			Weight (kg)		Table moving accuracy ( μ m)								
h <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	L <sub>5</sub>	L <sub>6</sub>	L <sub>7</sub>				M <sub>R</sub> (N.m)	M <sub>P</sub> (N.m)	M <sub>Y</sub> (N.m)	Standard	Antirust	Center parallelism	Side parallelism							
9	3.5	18	—	—	—	—	—	379	576	192	2.6	1.2	1.4	0.04	0.09	2	4							
		28						523	865	288	3.9	2.6	3.0	0.05	0.12									
		38						657	1,153	384	5.2	4.6	5.2	0.07	0.16									
		48						783	1,441	480	6.5	7.2	7.9	0.08	0.19									
		58						903	1,729	576	7.8	10.4	11.2	0.10	0.23		5							
		68						1,131	2,306	769	10.4	18.4	17.3	0.12	0.27									
		78						1,240	2,594	865	11.7	23.3	22.0	0.13	0.30									
		85						1,420	2,944	975	13.0	28.1	26.6	0.14	0.33									
10.9	5	25	—	—	—	—	—	895	1,170	390	7.0	3.1	3.9	0.09	0.20	2	4							
		40						1,552	2,339	780	14.0	12.5	10.9	0.13	0.29									
		55						1,849	2,924	975	17.5	19.5	17.5	0.17	0.38									
		70						2,134	3,509	1,170	21.1	28.1	30.4	0.21	0.46									
		85						2,407	4,093	1,364	24.6	38.2	40.9	0.25	0.55	3	5							
		100						2,930	5,263	1,754	31.6	63.2	59.6	0.30	0.64									
		115						3,181	5,848	1,949	35.1	78.0	74.1	0.34	0.73									
		130						3,427	6,433	2,144	38.6	94.3	98.6	0.38	0.82									
		145						3,668	7,017	2,339	42.1	112.3	117.0	0.42	0.91	6								
		160						4,136	8,187	2,729	49.1	152.8	147.4	0.46	1.00									
		175						4,365	8,772	2,924	52.6	175.4	169.6	0.50	1.08									
		185						4,567	9,152	3,060	55.1	194.5	186.6	0.53	1.14									
15	10	35	—	—	—	—	—	2,901	4,567	1,522	42.6	22.8	26.6	0.29	0.66	2	5							
		60						4,338	7,611	2,537	71.0	63.4	57.1	0.43	0.96									
		85						5,646	10,655	3,552	99.5	124.3	115.4	0.57	1.26									
		110						6,268	12,178	4,059	113.7	162.4	172.5	0.71	1.57									
		135						7,462	15,222	5,074	142.1	253.7	266.4	0.84	1.87	3	6							
		160						8,603	18,266	6,089	170.5	365.3	350.1	0.98	2.17									
		185						9,157	19,789	6,596	184.7	428.8	445.2	1.12	2.47									
		210						9,702	21,311	7,104	198.9	497.3	515.0	1.25	2.77									
		235						10,767	24,355	8,118	227.3	649.5	629.2	1.39	3.07	7								
		260						11,288	25,877	8,626	241.5	733.2	711.6	1.53	3.37									
		285						11,802	27,400	9,133	255.7	822.0	844.8	1.66	3.68									
		305						12,288	28,822	9,641	269.9	910.8	910.8	1.79	3.98									
		10.5						10.5	65	—	—	—	—	—	6,617	9,357	3,119	124.8	87.3	76.4	0.76	1.69	2	5
									105						9,097	14,035	4,678	187.1	196.5	180.1	1.12	2.50		
145	10,264		16,375	5,458	218.3	267.5	286.6		1.48						3.31	3	6							
185	12,492		21,053	7,018	280.7	442.1	466.7		1.84						4.11									
225	14,612		25,732	8,577	343.1	660.4	690.5		2.20						4.91									
265	16,646		30,410	10,137	405.5	922.4	957.9		2.56						5.72									
305	18,612		35,089	11,696	467.8	1228.1	1269.0		2.92						6.51	4	7							
345	20,519		39,767	13,256	530.2	1577.4	1623.8		3.28						7.32									
385	22,377		44,445	14,815	592.6	1970.4	1918.6		3.65						8.13									
425	24,185		49,123	16,374	654.9	2463.3	2363.3		4.01						8.94									
23	10	90	—	—	—	—	—	13,923	21,053	7,018	315.8	252.6	221.1	1.60	3.48	3	6							
		140						16,592	26,316	8,772	394.7	394.7	434.2	2.36	5.10									
		190						21,596	36,842	12,281	552.6	773.7	828.9	3.11	6.70									
		240						26,285	47,369	15,790	710.5	1279.0	1207.9	3.86	8.32									
		290						30,744	57,895	19,298	868.4	1910.5	1823.7	4.62	9.94	4	7							
		340						35,024	68,421	22,807	1026.3	2688.4	2565.8	5.36	11.53									
		390						39,160	78,948	26,316	1184.2	3552.6	3434.2	6.12	13.15									
		440						41,181	84,211	28,070	1263.2	4042.1	4168.4	6.87	14.76									
		490						45,141	94,737	31,597	1421.1	5115.8	5257.9	7.62	16.36	8								

# MGRM-S Dimensions

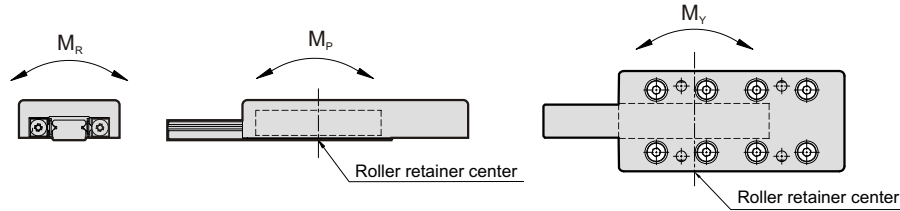
## SLIDE TABLE



(mm)

Model	Max. stroke	Roller dia.	Main dimensions			Mounting dimensions												
			W	T	L	T <sub>2</sub>	W <sub>1</sub>	M	Q	N × P	W <sub>3</sub>	W <sub>4</sub>	W <sub>5</sub>	W <sub>6</sub>	M <sub>1</sub>	W <sub>2</sub>	d <sub>1</sub>	d <sub>2</sub>
MGRM-30-25-S	12	φ 1.5	30 <sup>±0.1</sup>	17 <sup>±0.1</sup>	25	11	10	M2 × 4L	12.5	—	12	—	2.5	—	M2 × 6L	22	2.5	4.5
MGRM-30-35-S	18				1 × 10													
MGRM-30-45-S	25				2 × 10													
MGRM-30-55-S	32				3 × 10													
MGRM-30-65-S	40				4 × 10													
MGRM-30-75-S	45				5 × 10													
MGRM-30-85-S	50	6 × 10																
MGRM-40-35-S	18	φ 2.0	40 <sup>±0.1</sup>	21 <sup>±0.1</sup>	35	14	15	M3 × 6L	17.5	—	16	—	3.4	—	M2 × 6L	30	3.5	6.5
MGRM-40-50-S	30				1 × 15													
MGRM-40-65-S	40				2 × 15													
MGRM-40-80-S	50				3 × 15													
MGRM-40-95-S	60				4 × 15													
MGRM-40-110-S	70				5 × 15													
MGRM-40-125-S	80				6 × 15													
MGRM-40-140-S	90				7 × 15													
MGRM-40-155-S	100				8 × 15													
MGRM-40-170-S	110				9 × 15													
MGRM-40-185-S	120	10 × 15																
MGRM-60-55-S	30	φ 3.0	60 <sup>±0.1</sup>	28 <sup>±0.1</sup>	55	18.5	25	M4 × 8L	27.5	—	40	—	5.5	—	M3 × 6L	40	4.5	8
MGRM-60-80-S	45				1 × 25													
MGRM-60-105-S	60				2 × 25													
MGRM-60-130-S	75				3 × 25													
MGRM-60-155-S	90				4 × 25													
MGRM-60-180-S	105				5 × 25													
MGRM-60-205-S	130				6 × 25													
MGRM-60-230-S	155				7 × 25													
MGRM-60-255-S	180				8 × 25													
MGRM-60-280-S	205				9 × 25													
MGRM-60-305-S	230	10 × 25																
MGRM-80-85-S	50	φ 4.0	80 <sup>±0.1</sup>	35 <sup>±0.1</sup>	85	24	40	M5 × 10L	42.5	—	55	—	6.5	—	M3 × 6L	55	5.5	10
MGRM-80-125-S	75				1 × 40													
MGRM-80-165-S	105				2 × 40													
MGRM-80-205-S	130				3 × 40													
MGRM-80-245-S	155				4 × 40													
MGRM-80-285-S	185				5 × 40													
MGRM-80-325-S	210				6 × 40													
MGRM-80-365-S	235				7 × 40													
MGRM-80-405-S	265				8 × 40													
MGRM-100-110-S	60	φ 6.0	100 <sup>±0.1</sup>	45 <sup>±0.1</sup>	110	31	50	M6 × 12L	55	—	60	92	8	15	M4 × 8L	60	7	11.5
MGRM-100-160-S	95				1 × 50													
MGRM-100-210-S	130				2 × 50													
MGRM-100-260-S	165				3 × 50													
MGRM-100-310-S	200				4 × 50													
MGRM-100-360-S	235				5 × 50													
MGRM-100-410-S	265				6 × 50													
MGRM-100-460-S	300				7 × 50													
MGRM-100-510-S	335	8 × 50																

## SLIDE TABLE



● Each of load and torque changes oppositely in stroke variation.

									Basic dynamic load rating C(N)	Basic static load rating Co(N)	Allowable load Fu(N)	Static rated moment			Weight (kg)	Table moving accuracy ( μ m)		
h <sub>1</sub>	T <sub>1</sub>	h <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	L <sub>5</sub>	M <sub>R</sub> (N.m)				M <sub>P</sub> (N.m)	M <sub>Y</sub> (N.m)	Center parallelism		Side parallelism		
2.5	5.5	10	3.5	18					379	576	192	2.6	1.2	14	0.09	2	4	
				28	—					523	865	288	3.9	2.6	30			0.12
				38						657	1,153	384	5.2	4.6	52			0.16
				48	28					183	1,441	480	6.5	7.2	49			0.19
				58	38					903	1,929	576	7.8	10.4	112			0.23
				67	48					1,131	2,306	769	10.4	18.4	173			0.26
				78	58					1,240	2,594	865	11.7	23.3	220			0.30
2.5	6.5	13	5	25					895	1,170	390	7.0	3.1	39	0.20	2	4	
				40	—					1,552	2,339	780	14.0	12.5	109			0.29
				55						1,849	2,924	975	17.5	19.5	175			0.38
				70	40					2,134	3,509	1,170	21.1	28.1	304			0.46
				85	55					2,407	4,093	1,364	24.6	38.2	409			0.55
				100	70					2,930	5,263	1,754	31.6	63.2	596			0.64
				115	85					3,181	5,848	1,949	35.1	78.0	741			0.72
				130	100	70				3,427	6,433	2,144	38.6	94.3	986			0.83
				145	115	85				3,668	7,017	2,339	42.1	112.3	1170			0.90
				160	130	100				4,136	8,187	2,729	49.1	152.8	1474			0.99
175	145	115	85			4,365	8,772	2,924	52.6	175.4	1696	1.07	3	6				
4.5	9	17.5	10	35					2,901	4,567	1,522	42.6			22.8	26.6	0.65	
				60	—					4,338	7,611	2,537			71.0	63.4	57.1	0.95
				85						5,646	10,655	3,552			99.8	124.3	115.4	1.25
				110						6,268	12,178	4,059			113.7	162.4	172.5	1.55
				135	85					7,492	15,222	5,074			142.1	253.7	266.4	1.85
				160	110					8,603	18,266	6,089			170.5	365.3	350.1	2.15
				185	135	85				9,157	19,789	6,596			184.7	428.8	445.2	2.44
				210	160	110				9,702	21,311	7,104			198.9	497.3	515.0	2.74
				235	185	135				10,767	24,355	8,118			227.3	649.5	629.2	3.04
				260	210	160	110			11,288	25,877	8,626	241.5	733.2	711.6	3.33		
285	235	185	135			11,802	27,400	9,133	255.7	822.0	844.8	3.63	2	5				
5.4	10.5	22	10	60					6,617	9,357	3,119	124.8			87.3	76.4	1.68	
				105	—					9,097	14,035	4,678			187.1	196.5	180.1	2.48
				145						10,264	16,375	5,458			218.3	267.5	286.6	3.27
				185	105					12,492	21,035	7,018			280.7	442.1	466.7	4.06
				225	145					14,612	25,732	8,577			343.1	660.4	690.5	4.86
				265	185					16,646	30,410	10,137			405.5	922.4	957.9	5.66
				305	225	145				18,612	35,089	11,696			467.8	1228.1	1269.0	6.44
				345	265	185				20,519	39,767	13,256			530.2	1577.4	1623.8	7.24
				385	305	225				22,377	44,445	14,815			592.6	1970.4	1918.6	8.04
				7	13	29	10	90					13,923	21,053	7,018	315.8	252.6	221.1
140	—									16,592	26,316	8,772	394.7	394.7	646.2	5.05		
190	90									21,596	36,842	12,281	522.6	733.9	828.9	6.63		
240	140									26,285	49,369	15,790	710.5	1279.0	1207.9	8.23		
290	190									30,744	57,895	19,298	868.4	1910.5	1823.7	9.84		
340	240	140								35,024	68,421	22,807	1026.3	2668.4	2565.8	11.41		
390	290	190								39,160	78,948	26,316	1184.2	3552.6	3434.2	13.01		
440	340	240								41,481	84,211	28,070	1263.2	4042.1	4168.4	14.61		
490	390	290	190							45,141	94,737	31,579	1421.1	5115.8	5257.9	16.20		