

Order example

MGRB – **60** – **55** – **N**

Model
MGRB : Countersink lock




Table width
MGRB (mm)


30	30
40	40
60	60
80	80
100	100
145	145

Table length
25~610 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
60	55, 80, 105, 130, 155, 180, 205
80	85, 125, 165, 205, 245, 285, 325
100	110, 160, 210, 260, 310, 360, 410, 510
145	210, 310, 410, 510, 610

Material

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

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

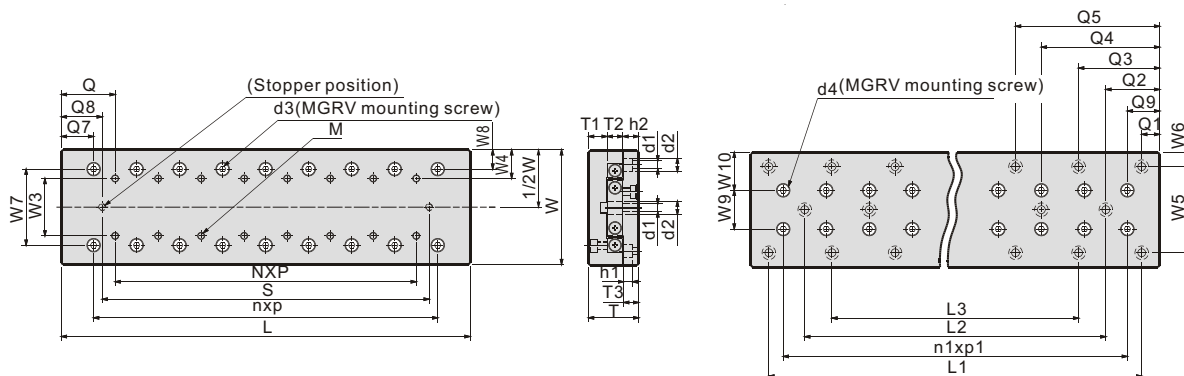
- Table in N series, is antirust, apply to clean room environment.
- Table in S series, is antirust apply to corrosion-resisting, apply to clean room environment.
- Table in B series, is antirust, apply to clean room environment.
- All parts are cryogenic finished to increase 30% durability (refer to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

MGRB / MGRB-B / MGRB-N Dimensions



SLIDE TABLE

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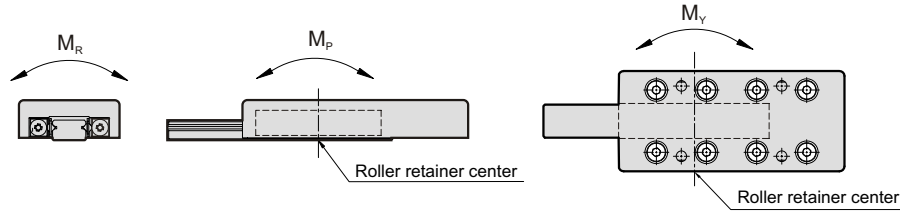
(mm)

Mode	Max. stroke	Roller dia.	Main dimensions							Table mounting dimensions																															
			W	T	L	T ₁	T ₂	T ₃	N×P	n×p	M	S	d ₃	Q	Q ₇	Q ₈	W ₃	W ₄	W ₇	W ₈	L ₁	L ₂	L ₃	n ₁ ×p ₁																	
MGRB-30-25	12	φ 1.5	30 ^{+0.1}	17 ^{+0.1}	25	7	4	5.5	—	1×10	M2	40	4.1	12.5	7.5	7.5	10	10	18.4	5.8	18	—	28	1×10																	
MGRB-30-35	18				35				1×10	1×10											26			4.5	2×10																
MGRB-30-45	25				45				2×10	2×10											33			6	3×10	3×10	48	8.5	58	38	3×10										
MGRB-30-55	32				55				3×10	3×10											53			11	4×10	4×10	58	13.5	68	48	5×10										
MGRB-30-65	40				65				4×10	4×10											58			13.5	5×10	5×10	78	18.4	78	58	6×10										
MGRB-30-75	45				75				5×10	5×10											58			13.5	6×10	6×10	78	18.4	78	58	7×10										
MGRB-30-85	50				85				6×10	6×10											58			13.5	6×10	6×10	78	18.4	78	58	7×10										
MGRB-40-35	18	φ 2.0	40 ^{+0.1}	21 ^{+0.1}	35	8	6	6.5	—	1×15	M3	29	6	10	3	12.5	4.5	25	7.5	25	—	40	1×15																		
MGRB-40-50	30				50				1×15	1×25										41			20	2×15	1×25	55	1×25	40	1×25												
MGRB-40-65	40	φ 3.0	40 ^{+0.1}	21 ^{+0.1}	65	7	8	5.5	3×15	2×25	M4	61	7.5	17.5	15	9.5	15	12.5	7.25	70	—	85	2×25																		
MGRB-40-80	50				80				3×15											2×25			71	22.5	4×15	2×25	100	70	3×25												
MGRB-40-95	60				95				4×15	3×25										81			17.5	14.5	5×15	3×25	91	25	17	100	70	3×25	115	85	3×25						
MGRB-40-100	70				110				5×15																											3×25	81	17.5	14.5	6×15	3×25
MGRB-40-125	80				125				6×15	3×25										91			25	17	6×15	3×25	91	25	17	115	85	3×25									
MGRB-60-55	30				φ 3.0				60 ^{+0.1}	28 ^{+0.1}										55			10.5	8	9	—	1×25	M4	89	7.5	27.5	15	20.5	25	17.5	39	10.5	35	—	85	1×25
MGRB-60-80	45																			80						1×25	2×25											59			10.5
MGRB-60-105	60	105	2×25	3×25		74	15.5	3×25			4×25	89	20.5	110	85	3×25																									
MGRB-60-130	75	130	3×25	4×25		89	20.5	4×25			5×25	104	25.5	135	85	4×25																									
MGRB-60-155	90	155	4×25	5×25		104	25.5	5×25			6×25	119	30.5	160	110	5×25																									
MGRB-60-180	105	180	5×25	6×25		119	30.5	6×25			7×25	144	30.5	185	135	6×25																									
MGRB-60-205	130	205	6×25	7×25		144	30.5	7×25			7×25	144	30.5	185	135	7×25																									
MGRB-80-85	50	φ 4.0	80 ^{+0.1}	35 ^{+0.1}	85	13	11	10.5	—	1×40	M5	149	9.5	42.5	22.5	28	40	20	53	13.5	40	—	80	1×40																	
MGRB-80-125	75				125				1×40	2×40											89			18	2×40	3×40	119	23	120	80	2×40										
MGRB-80-165	105				165				2×40	3×40											119			23	3×40	4×40	169	38	200	120	3×40										
MGRB-80-205	135				205				3×40	4×40											169			38	4×40	5×40	199	43	240	160	4×40										
MGRB-80-245	155				245				4×40	5×40											199			43	5×40	6×40	229	48	280	200	5×40										
MGRB-80-285	185				285				5×40	6×40											229			48	6×40	7×40	229	48	280	240	6×40										
MGRB-80-325	215				325				6×40	7×40											229			48	7×40	7×40	229	48	280	280	7×40										
MGRB-100-110	60	φ 6.0	100 ^{+0.1}	45 ^{+0.1}	110	16	15	13	—	1×50	M6	183	11	55	30	38.5	50	25	64	18	90	—	140	1×50																	
MGRB-100-160	95				160				1×50	2×50											113			23.5	2×50	3×50	148	31	190	90	2×50										
MGRB-100-210	130				210				2×50	3×50											148			31	3×50	4×50	218	46	290	190	3×50										
MGRB-100-260	165				260				3×50	4×50											218			46	4×50	5×50	253	53.5	340	200	4×50										
MGRB-100-310	200				310				4×50	5×50											253			53.5	5×50	6×50	283	63.5	390	290	5×50										
MGRB-100-360	235				360				5×50	6×50											283			63.5	6×50	7×50	390	60	450	290	6×50										
MGRB-100-410	265				410				6×50	7×50											390			60	7×50	8×50	390	60	450	390	7×50										
MGRB-100-510	350	450	6×50	8×50	390	60	8×50	8×50	390	60	450	390	8×50																												
MGRB-145-210	130	φ 9.0	145 ^{+0.2}	60 ^{+0.1}	210	21	22	16	—	1×100	M8	376	14	105	55	27	23.5	23.5	23.5	23.5	100	—	200	1×100																	
MGRB-145-310	180				310				1×100	2×100											206			52	2×100	3×100	476	17	300	100	2×100										
MGRB-145-410	350				410				2×100	3×100											476			17	3×100	4×100	476	17	400	200	3×100										
MGRB-145-510	450				510				3×100	4×100											476			17	4×100	5×100	576	17	500	300	4×100										
MGRB-145-610	550				610				4×100	5×100											576			17	5×100	5×100	576	17	500	300	5×100										



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SLIDE TABLE



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

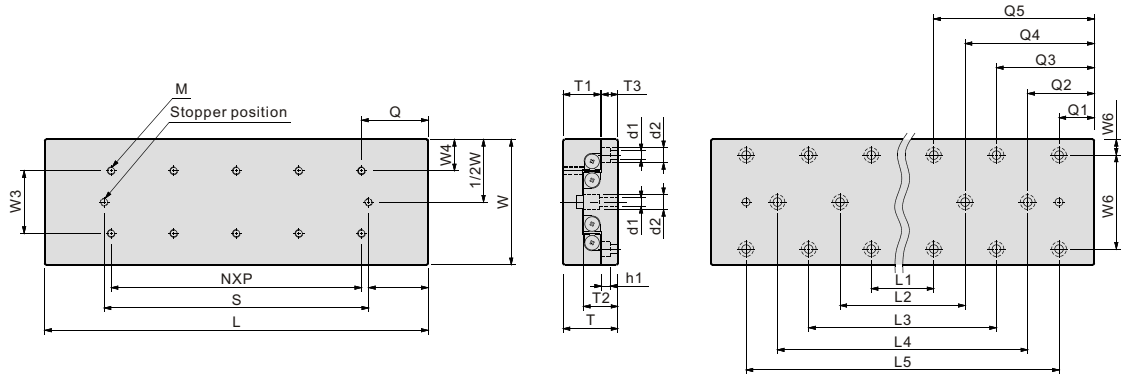
Base mounting dimensions (mm)														Basic dynamic load rating C(N)	Basic static load rating Co(N)	Allowable load Fu(N)	Static rated moment			Weight(kg)		Table moving accuracy (μm)	
Q ₁	Q ₂	Q ₃	Q ₃	W ₅	W ₆	W ₉	W ₁₀	d ₁	d ₂	d ₄	h ₁	h ₂	M _R (N.m)				M _P (N.m)	M _Y (N.m)	Standard	Antirust	Center parallelism	Side parallelism	
3.5	—	—	7.5	22	4	—	15	2.55	4.1	4.1	2.5	6	379	576	192	2.6	1.2	1.4	0.04	0.09	2	4	
													523	865	288	3.9	2.6	3.0	0.06	0.12			
													657	1,153	384	5.2	4.6	5.2	0.07	0.16			
													783	1,441	480	6.5	7.2	7.9	0.09	0.19			
													903	1,729	576	7.08	10.4	11.2	0.10	0.23			
													1,131	2,306	769	10.4	18.4	17.3	0.12	0.27			
5	—	—	10	30	5	—	20	3.5	6	6	3.2	6	1,240	2,594	865	11.7	23.3	22.0	0.14	0.30	2	5	
													895	1,170	390	7.0	3.1	3.9	0.10	0.20			
													2,901	4,567	1,522	42.6	22.8	26.6	0.16	0.29			
													2,901	4,567	1,522	42.6	22.8	19.0	0.18	0.36			
													4,338	7,611	2,537	71.0	63.4	57.1	0.25	0.46			
													3,640	6,089	2,030	56.8	40.6	45.7	0.27	0.53			
10	—	—	15	40	10	17	21.5	4.5	7.5	7.5	4.5	9.5	5,005	9,133	3,044	85.2	91.3	98.9	0.34	0.63	2	5	
													2,901	4,567	1,522	42.6	22.8	26.6	0.31	0.65			
													4,338	7,611	2,537	71.0	63.4	57.1	0.46	0.96			
													5,646	10,655	3,552	99.5	124.3	115.4	0.61	1.27			
													6,268	12,178	4,059	113.7	162.4	172.5	0.76	1.57			
													7,462	15,222	5,074	142.1	253.7	266.4	0.90	1.87			
22.5	—	—	22.5	60	10	27	26.5	5.5	9.5	9.5	6	11	8,603	18,266	6,089	170.5	365.3	350.1	1.05	2.18	3	7	
													9,157	19,789	6,596	184.7	428.8	445.2	1.20	2.47			
													6,617	9,357	3,119	124.8	87.3	76.4	0.84	1.72			
													9,097	14,035	4,678	187.1	196.5	180.1	1.25	2.55			
													10,264	16,375	5,458	218.3	267.5	286.6	1.65	3.37			
													12,492	21,053	7,018	280.7	442.1	466.7	2.06	4.18			
10	—	—	30	60	20	26	37	7	11	11	6.5	14	14,612	25,732	8,577	343.1	660.4	690.5	2.46	5.00	3	7	
													16,646	30,410	10,137	405.5	922.4	957.9	2.87	5.83			
													18,612	35,089	11,696	467.8	1228.1	1187.2	3.27	6.64			
													13,923	21,053	7,018	315.8	252.6	221.1	1.72	3.51			
													16,592	26,316	8,772	394.7	394.7	434.2	2.53	5.15			
													21,596	36,842	12,281	552.6	773.7	828.9	3.34	6.79			
55	—	—	55	90	27.5	46	49.5	9	14	14	8.5	17.5	26,285	47,369	15,790	710.5	1279.0	1207.9	4.13	8.39	4	8	
													30,744	57,895	19,298	868.4	1910.5	1823.7	4.95	10.04			
													35,024	68,421	22,807	1026.3	2668.4	2565.8	5.75	11.64			
													39,160	78,948	26,316	1184.2	3552.6	3434.2	6.56	13.28			
													45,141	84,600	28,200	1269.0	4568.4	4441.5	8.17	16.52			
													46,911	72,741	24,247	1745.8	1697.3	1527.6	6.75	13.23			
35	—	—	55	90	27.5	46	49.5	9	14	14	8.5	17.5	61,165	101,838	33,946	2444.1	3326.7	3564.3	10.03	19.62	3	7	
													67,898	116,386	38,795	2793.3	4345.1	4073.5	13.21	25.88			
													80,829	145,482	48,494	3491.6	6789.2	6449.7	16.48	32.26			
													87,562	160,030	53,343	3840.8	7807.6	6958.9	19.75	38.64			

MGRB-S Dimensions

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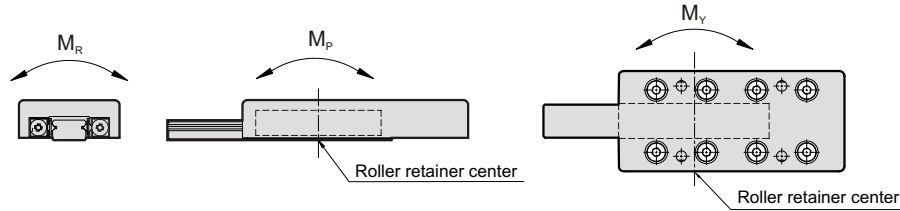


(mm)

Model	Max. stroke	Roller dia.	Main dimensions			Mounting dimensions															
			W	L	T	T ₁	T ₂	T ₃	N×P	M	S	Q	Q ₈	W ₃	W ₄	L ₁	L ₂	L ₃			
MGRB-30-25-S	12	φ 1.5	30 ^{±0.1}	25	17 ^{±0.1}	11	10	5.5	—	M2	20	12.5	2.5	10	10	18	—	28			
MGRB-30-35-S	18			35					1×10							26			4.5	38	
MGRB-30-45-S	25			45					2×10							33			6	48	28
MGRB-30-55-S	32			55					3×10							40			7.5	58	38
MGRB-30-65-S	40			65					4×10							48			8.5	68	48
MGRB-30-75-S	45			75					5×10							53			11	78	58
MGRB-30-85-S	50			85					6×10							58			13.5	88	68
MGRB-40-35-S	18	φ 2.0	40 ^{±0.1}	35	21 ^{±0.1}	8	13	6.5	—	M3	29	17.5	3	15	12.5	25	—	40			
MGRB-40-50-S	30			50					1×15							41			4.5	55	
MGRB-40-65-S	40	φ 3.0	40 ^{±0.1}	65	21 ^{±0.1}	14	14	5.5	2×15	M3	61	17.5	9.5	15	12.5	70	—	85			
MGRB-40-80-S	50			80					3×15							61			7	85	40
MGRB-40-95-S	60			95					4×15							71			12	100	55
MGRB-40-110-S	70			110					5×15							81			14.5	115	70
MGRB-40-125-S	80			125					6×15							91			17	130	85
MGRB-60-55-S	30	φ 3.0	60 ^{±0.1}	55	28 ^{±0.1}	18.5	17.5	9	—	M4	44	27.5	5.5	25	17.5	35	—	85			
MGRB-60-80-S	45			80					1×25							59			10.8	110	60
MGRB-60-105-S	60			105					2×25							74			15.5	135	85
MGRB-60-130-S	75			130					3×35							89			20.8	160	110
MGRB-60-155-S	90			155					4×25							104			25.5	185	135
MGRB-60-180-S	105			180					5×25							119			30.5	210	160
MGRB-60-205-S	130			205					6×25							144			30.5	235	185
MGRB-80-85-S	50	φ 4.0	80 ^{±0.1}	85	35 ^{±0.1}	24	22	10.5	—	M5	64	42.5	10.5	40	20	40	—	80			
MGRB-80-125-S	75			125					1×40							89			18	120	80
MGRB-80-416-S	105			165					2×40							119			23	160	120
MGRB-80-205-S	135			205					3×40							149			28	200	160
MGRB-80-245-S	135			245					4×40							169			38	240	200
MGRB-80-285-S	185			285					5×40							199			43	280	240
MGRB-80-325-S	215			325					6×40							229			48	320	280
MGRB-100-110-S	60	φ 6.0	100 ^{±0.1}	110	45 ^{±0.1}	31	29	13	—	M6	77	55	16.5	50	25	90	—	140			
MGRB-100-160-S	95			160					1×50							113			23.5	190	140
MGRB-100-210-S	130			210					2×50							148			31	240	190
MGRB-100-260-S	165			260					3×50							183			38.5	290	240
MGRB-100-310-S	200			310					4×50							218			46	340	290
MGRB-100-360-S	235			360					5×50							253			53.5	390	340
MGRB-100-410-S	265			410					6×50							283			63.5	440	390
MGRB-100-510-S	340	510	7×50	390	60	490	490														
MGRB-145-210-S	130	φ 9.0	145 ^{±0.1}	210	60 ^{±0.1}	43	38.5	16	—	M8	156	105	27	85	30	100	—	200			
MGRB-145-310-S	180			310					1×100							206			52	300	200
MGRB-145-410-S	350			410					2×100							376			12	400	300
MGRB-145-510-S	450			510					3×100							476			17	500	400
MGRB-145-610-S	550			610					4×100							576			17	600	500



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

Q ₁	Q ₂	Q ₃	Q ₅	W ₅	W ₆	d ₁	d ₂	h ₁	Basic dynamic load rating C(N)	Basic static load rating Co(N)	Allowable load Fu(N)	Static rated moment			Weight (kg)	Table moving accuracy (μm)	
												M _R (N.m)	M _P (N.m)	M _Y (N.m)		Center parallelism	Side parallelism
3.5	—	13.5	—	22	4	2.55	4.1	2.5	379	576	192	2.6	1.2	1.4	0.09	2	4
									523	865	288	3.9	2.6	3.0	0.12		
									657	1,153	384	5.2	4.6	5.2	0.16		
									783	1,441	480	6.5	7.2	7.9	0.19		
									903	1,729	576	7.8	10.4	11.2	0.23		
									1,131	2,306	769	10.4	18.4	17.3	0.26		
									1,240	2,594	865	11.7	23.3	22.0	0.30		
5	—	20	—	30	5	3.5	6	3.5	895	1,170	390	7.0	3.1	3.9	0.20	2	4
								2,901	4,567	1,522	42.6	22.8	26.6	0.29			
								2,901	4,567	1,522	42.6	22.8	19.0	0.36			
								4,338	7,611	2,591	71.0	63.4	57.1	0.46			
								3,640	6,089	2,030	56.8	40.6	45.7	0.52			
								5,005	9,133	3,044	85.2	91.3	98.9	0.63			
								5,005	9,133	3,044	85.2	91.3	83.7	0.69			
10	—	35	—	40	10	4.5	7.5	4.5	2,901	4,563	1,522	42.6	22.8	26.6	0.65	2	5
									4,338	7,611	2,537	71.0	63.4	57.1	0.95		
									5,646	10,655	3,552	99.5	124.3	115.4	1.25		
									6,268	12,178	4,059	113.7	162.4	172.5	1.55		
									7,462	15,222	5,074	142.1	253.7	266.4	1.85		
									8,603	18,266	6,089	170.5	365.3	350.1	2.15		
									9,157	19,789	6,596	184.7	428.8	445.2	2.45		
22.5	—	62.5	—	60	10	5.5	9.5	6	6,617	9,357	3,119	124.8	87.3	76.4	1.70	3	6
									9,097	14,035	4,678	187.1	196.5	180.1	2.52		
									10,264	16,375	5,458	218.3	267.5	286.6	3.34		
									12,492	21,053	7,018	280.7	442.1	466.7	4.14		
									14,612	25,732	8,577	343.1	660.4	690.5	4.95		
									16,646	30,410	10,137	405.5	922.4	957.9	5.77		
									18,612	35,089	11,696	467.8	1228.1	1187.2	6.57		
10	—	60	—	60	20	7	11	6.5	13,923	21,053	7,018	315.8	252.6	221.1	3.48	3	6
									16,592	26,316	8,772	394.7	394.7	434.2	5.10		
									21,596	36,842	12,281	552.6	773.7	828.9	6.72		
									26,285	47,369	15,790	710.5	1279.0	1207.9	8.31		
									30,744	57,895	19,298	868.4	1910.5	1823.7	9.95		
									35,024	68,421	22,807	1026.3	2668.4	2565.8	11.53		
									39,160	78,948	26,316	1184.2	3552.6	3434.2	13.16		
55	—	110	—	90	27.5	9	14	8.5	46,991	72,741	24,247	1745.8	1697.3	1527.6	13.11	4	7
									61,165	101,838	33,946	2444.1	3326.7	3564.3	19.44		
									67,898	116,386	38,795	2793.3	4345.1	4073.5	25.65		
									80,829	145,482	48,494	3491.6	6789.2	6449.7	31.97		
									87,073	160,031	53,344	3840.7	8214.9	8588.3	38.22		