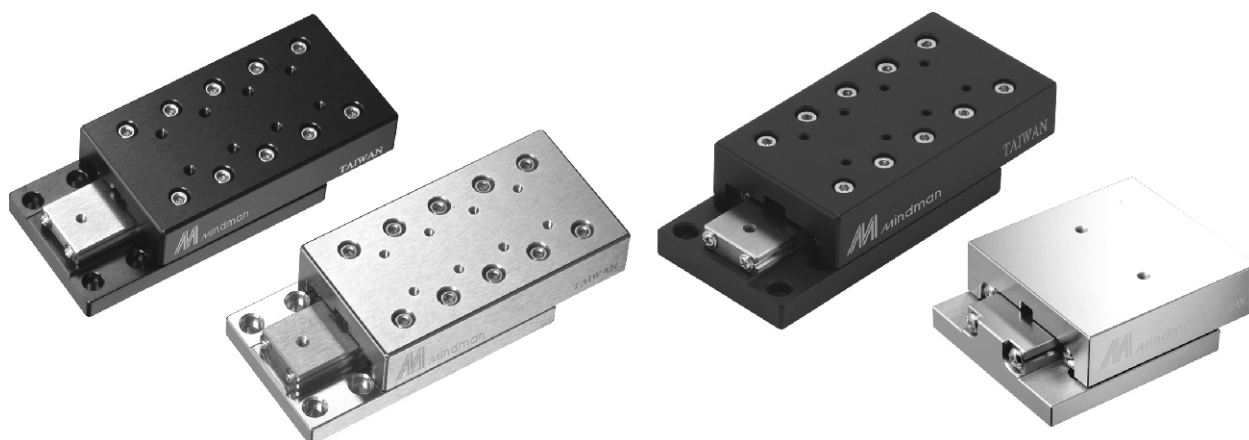


MGRB series

SLIDE TABLE



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	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) .

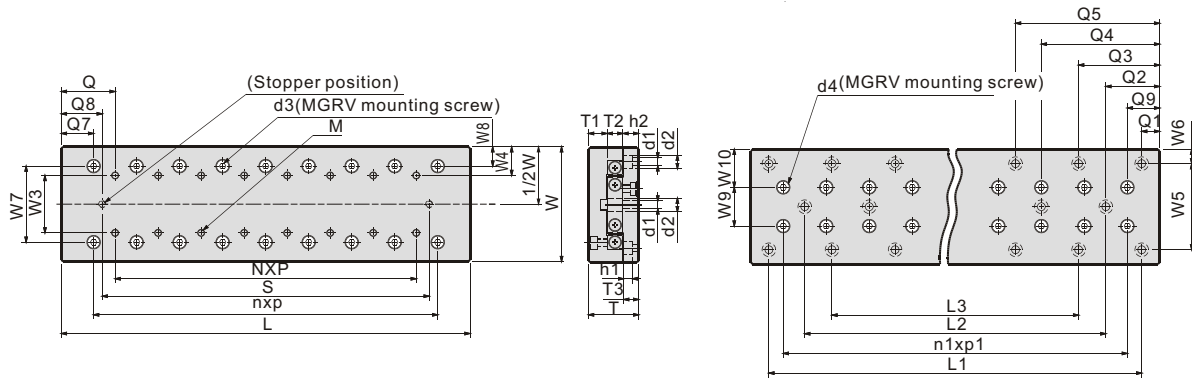
MGRB / MGRB-B / MGRB-N

Dimensions



SLIDE TABLE

mindman



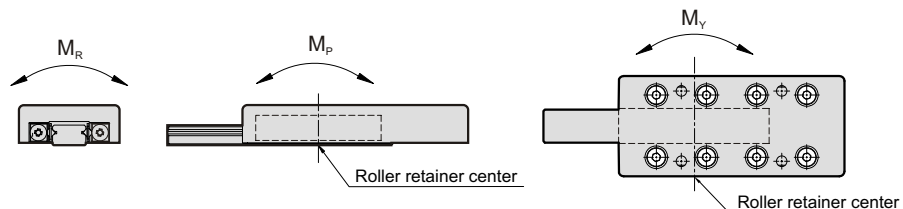
(mm)

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	20	4.1	12.5	7.5	2.5	10	10	18.4	5.8	18	—	28	1×10		
MGRB-30-35	18				35				1×10	26		4.5				28					2×10					
MGRB-30-45	25				45				2×10	33		6				38					3×10					
MGRB-30-55	32				55				3×10	40		7.5				48					4×10					
MGRB-30-65	40				65				4×10	48		8.5				58					5×10					
MGRB-30-75	45				75				5×10	53		11				68					6×10					
MGRB-30-85	50				85				6×10	58		13.5				78					7×10					
MGRB-40-35	18	φ 2.0			35	8	6	6.5	—	1×15		29	6		10	3			25	7.5	25			1×15		
MGRB-40-50	30				50	7	8	5.5	1×15	1×25		41			12.5	4.5			40	1×25						
MGRB-40-65	40	65	2×15	1×25	51				20	7	55	1×25														
MGRB-40-80	50	φ 3.0	40 ^{±0.1}	21 ^{±0.1}	80	7	8	5.5	3×15	2×25	M3	61	7.5	17.5	15	9.5	15	12.5	25.5	7.25	70	—	40	2×25		
MGRB-40-95	60				95				4×15	2×25		71			22.5	12					85			55	2×25	
MGRB-40-100	70				110				5×15	3×25		81			17.5	14.5					100			70	3×25	
MGRB-40-125	80				125				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	44	7.5	27.5	15	5.5	25	17.5	39	10.5	35	—	85	1×25		
MGRB-60-80	45				80				1×25	2×25		59				10.5					60			2×25		
MGRB-60-105	60				105				2×25	3×25		74				15.5					85			3×25		
MGRB-60-130	75				130				3×25	4×25		89				20.5					110			4×25		
MGRB-60-155	90				155				4×25	5×25		104				25.5					135			5×25		
MGRB-60-180	105				180				5×25	6×25		119				30.5					160			6×25		
MGRB-60-205	130				205				6×25	7×25		144				30.5					185			7×25		
MGRB-80-85	50	φ 4.0	80 ^{±0.1}	35 ^{±0.1}	85	13	11	10.5	—	1×40	M5	64	9.5	42.5	22.5	10.5	40	20	53	13.5	40	—	80	1×40		
MGRB-80-125	75				125				1×40	2×40		89				18					80			2×40		
MGRB-80-165	105				165				2×40	3×40		119				23					120			3×40		
MGRB-80-205	135				205				3×40	4×40		149				28					160			4×40		
MGRB-80-245	155				245				4×40	5×40		169				38					200			5×40		
MGRB-80-285	185				285				5×40	6×40		199				43					240			6×40		
MGRB-80-325	215				325				6×40	7×40		229				48					280			7×40		
MGRB-100-110	60	φ 6.0	100 ^{±0.1}	45 ^{±0.1}	110	16	15	13	—	1×50	M6	77	11	55	30	16.5	50	25	64	18	90	—	90	1×50		
MGRB-100-160	95				160				1×50	2×50		113				23.5					140			2×50		
MGRB-100-210	130				210				2×50	3×50		148				31					190			3×50		
MGRB-100-260	165				260				3×50	4×50		183				46					240			4×50		
MGRB-100-310	200				310				4×50	5×50		218				53.5					290			5×50		
MGRB-100-360	235				360				5×50	6×50		253				63.5					340			6×50		
MGRB-100-410	265				410				6×50	7×50		283				60					390			7×50		
MGRB-100-510	350				450				6×50	8×50		390				60					450			8×50		
MGRB-145-210	130	φ 9.0	145 ^{±0.2}	60 ^{±0.1}	210	21	22	16	—	1×100	M8	156	14	105	55	27	23.5	23.5	23.5	23.5	100	—	100	1×100		
MGRB-145-310	180				310				1×100	2×100		206				52					200			2×100		
MGRB-145-410	350				410				2×100	3×100		376				300					100			3×100		
MGRB-145-510	450				510				3×100	4×100		476				400					200			4×100		
MGRB-145-610	550				610				4×100	5×100		576				500					300			5×100		

MGRB / MGRB-B / MGRB-N Dimensions



SLIDE TABLE



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

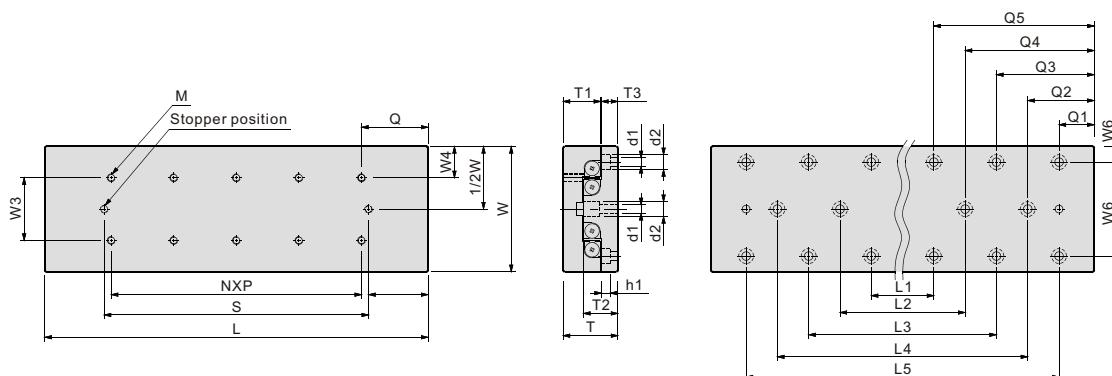
Base mounting dimensions (mm)													Basic dynamic load rating C(N)	Basic static load rating Co(N)	Allowable load Fu(N)	Static rated moment			Weight(kg)		Table moving accuracy (μm)	
Q ₁	Q ₂	Q ₃	Q ₄	W ₅	W ₆	W ₇	W ₈	d ₁	d ₂	d ₃	h ₁	h ₂				M _R (N.m)	M _P (N.m)	M _Y (N.m)	Standard	Antirust	Center parallelism	Side parallelism
3.5	—	13.5	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	708	10.4	11.2	0.10	0.23		
													1,131	2,306	769	10.4	18.4	17.3	0.12	0.27		
5	—	20	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	—	35	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
													5,005	9,133	3,044	85.2	91.3	83.7	0.36	0.69		
													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		
22.5	—	62.5	22.5	60	10	27	26.5	5.5	9.5	9.5	6	11	7,462	15,222	5,074	142.1	253.7	266.4	0.90	1.87	3	6
													8,603	18,266	6,089	170.5	365.3	350.1	1.05	2.18		
													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		
10	—	60	30	60	20	26	37	7	11	11	6.5	14	12,492	21,053	7,018	280.7	442.1	466.7	2.06	4.18	3	7
													14,612	25,732	8,577	343.1	660.4	690.5	2.46	5.00		
													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		
55	—	35	55	90	27.5	46	49.5	9	14	14	8.5	17.5	21,596	36,842	12,281	552.6	773.7	828.9	3.34	6.79	3	7
													26,285	47,369	15,790	710.5	1279.0	1207.9	4.13	8.39		
													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		
55	—	35	55	90	27.5	46	49.5	9	14	14	8.5	17.5	46,911	72,741	24,247	1745.8	1697.3	1527.6	6.75	13.23	3	7
													61,165	101,838	33,946	2444.1	3326.7	3564.3	10.03	19.62		
													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		
55	—	35	55	90	27.5	46	49.5	9	14	14	8.5	17.5	87,562	160,030	53,343	3840.8	7807.6	6958.9	19.75	38.64	4	8

MGRB-S Dimensions

SLIDE TABLE

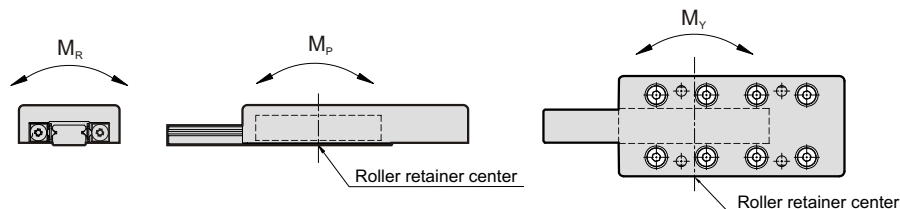


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(mm)

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	—	—	
MGRB-30-35-S	18			35					1×10		26		4.5			28			
MGRB-30-45-S	25			45					2×10		33		6			38			
MGRB-30-55-S	32			55					3×10		40		7.5			48			28
MGRB-30-65-S	40			65					4×10		48		8.5			58			38
MGRB-30-75-S	45			75					5×10		53		11			68			45
MGRB-30-85-S	50			85					6×10		58		13.5			78			58
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	—	—	
MGRB-40-50-S	30	φ 3.0		50		14	14	5.5	1×15		41		4.5			40			
MGRB-40-65-S	40			65					2×15		51		7			55			
MGRB-40-80-S	50			80					3×15		61		9.5			70			40
MGRB-40-95-S	60			95					4×15		71		12			85			55
MGRB-40-110-S	70			110					5×15		81		14.5			100			70
MGRB-40-125-S	80			125					6×15		91		17			115			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	—	—	
MGRB-60-80-S	45			80					1×25		59		10.8			60			
MGRB-60-105-S	60			105					2×25		74		15.5			85			
MGRB-60-130-S	75			130					3×35		89		20.8			110			85
MGRB-60-155-S	90			155					4×25		104		25.5			135			85
MGRB-60-180-S	105			180					5×25		119		30.5			160			110
MGRB-60-205-S	130			205					6×25		144		30.5			185			135
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	—	—	
MGRB-80-125-S	75			125					1×40		89		18			80			
MGRB-80-416-S	105			165					2×40		119		23			120			
MGRB-80-205-S	135			205					3×40		149		28			160			80
MGRB-80-245-S	135			245					4×40		169		38			200			120
MGRB-80-285-S	185			285					5×40		199		43			240			160
MGRB-80-325-S	215			325					6×40		229		48			280			200
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	—	—	
MGRB-100-160-S	95			160					1×50		113		23.5			140			
MGRB-100-210-S	130			210					2×50		148		31			190			90
MGRB-100-260-S	165			260					3×50		183		38.5			240			140
MGRB-100-310-S	200			310					4×50		218		46			290			190
MGRB-100-360-S	235			360					5×50		253		53.5			340			240
MGRB-100-410-S	265			410					6×50		283		63.5			390			290
MGRB-100-510-S	340	510	7×50	390	60	490	390												
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	—	—	
MGRB-145-310-S	180			310					1×100		206		52			200			
MGRB-145-410-S	350			410					2×100		376		12			300			100
MGRB-145-510-S	450			510					3×100		476		17			400			200
MGRB-145-610-S	550			610					4×100		576					500			300



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

									Basic dynamic load rating C(N)	Basic static load rating Co(N)	Allow- able load Fu(N)	Static rated moment			Weight (kg)	Table moving accuracy (μ m)	
Q ₁	Q ₂	Q ₃	Q ₅	W ₅	W ₆	d ₁	d ₂	h ₁				M _R (N.m)	M _P (N.m)	M _Y (N.m)		Center parallelism	Side parallelism
3.5	—	—	—	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	—	—	30	5	3.5	6	3.5	895	1,170	390	7.0	3.1	3.9	0.20	2	4	
		20						3.2	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	3		6	
10	—	—	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	—	—	60	10	5.5	9.5	6	6,617	9,357	3,119	124.8	87.3	76.4	1.70	2	5	
		9,097						14,035	4,678	187.1	196.5	180.1	2.52	3		6	
		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			4	8
10	—	—	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	4		8	
55	—	—	90	27.5	9	14	8.5	45,141	84,600	28,200	1269.0	4568.4	4441.5	16.52	3	7	
								46,991	72,741	24,247	1745.8	1697.3	1527.6	13.11			
								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		4	8
								87,073	160,031	53,344	3840.7	8214.9	8588.3	38.22			