



Order example

MGRS – 20 – 75 – N



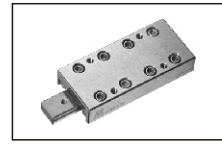
40	40
----	----



B : Black coating



N : Antirust



S : Corrosion resisting

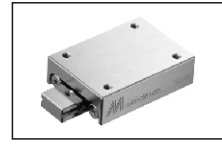


Table length

Table width	Table length (mm)
20	25, 35, 45, 55, 65, 75, 85
30	35, 50, 65, 80, 95, 110, 125
40	55, 80, 105, 130, 155, 180, 205

Material

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

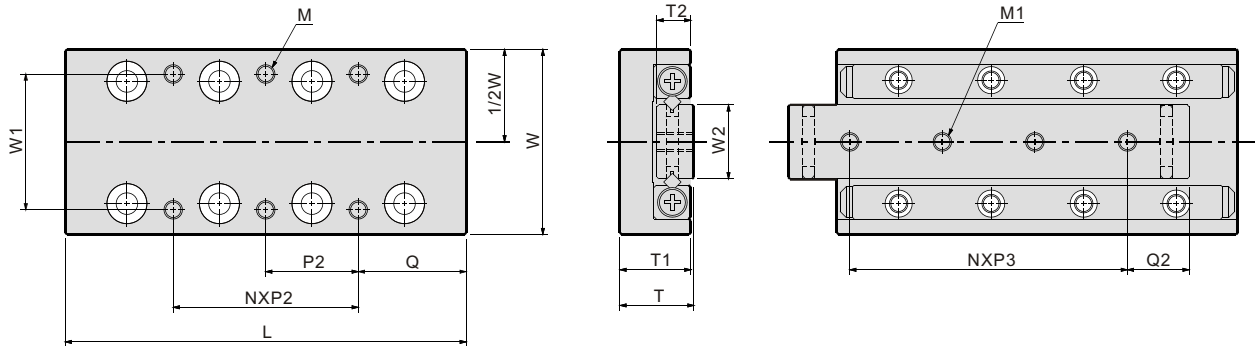
- **MGRS-N / MGRS-S** no finished to V-groove surface of the rail.
- **MGRS-S** table and rail are in one unit in this series.

- 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) .

MGRS / MGRS-B / MGRS-N Dimensions



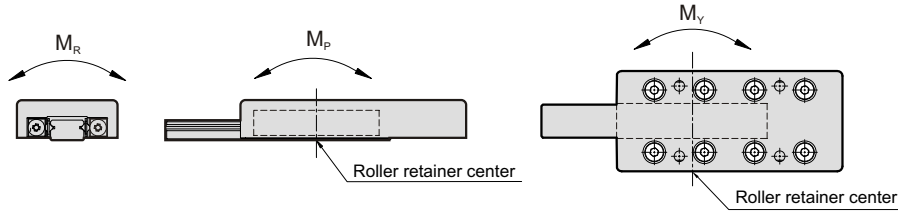
SLIDE TABLE



(mm)

Model	Max. stroke	Roller dia.	Main dimensions						Table mounting dimensions				Base mounting dimensions													
			W	T	L	T ₁	T ₂	W ₂	W ₁	M	Q	N×P ₂	M ₁	Q ₂	N×P ₃											
MGRS-20-25	12	φ 1.5	20 ^{+0.1}	8 ^{+0.1}	25	7.5	4	6.6	14	M2.5×3.5L	3.5	1×18	M2.6	7.5	2×7.5											
MGRS-20-35	18				2×28							2×10														
MGRS-20-45	25				1×20							3×10														
MGRS-20-55	32				1×30							4×10														
MGRS-20-65	40				2×20							5×10														
MGRS-20-75	45				22.5 1×30							6×10														
MGRS-20-85	50				12.5 2×30							7×10														
MGRS-30-35	18				φ 2.0							30 ^{+0.1}			12 ^{+0.1}	35	11.5	6	12	22	M3×5.5L	3.5	1×28	M3	10	1×20
MGRS-30-50	30	1×43	2×15																							
MGRS-30-65	40	1×30	3×15																							
MGRS-30-80	50	1×45	4×15																							
MGRS-30-95	60	2×30	5×15																							
MGRS-30-110	70	32.5 1×45	6×15																							
MGRS-30-125	80	17.5 2×45	7×15																							
MGRS-40-55	30	φ 3.0	40 ^{+0.1}	16 ^{+0.1}		55	15.5	8	16	30	M4×7.5L		7.5	1×40		M4							15			1×35
MGRS-40-80	45					1×65								2×25												
MGRS-40-105	60					1×50								3×25												
MGRS-40-130	75				1×75	4×25																				
MGRS-40-155	90				2×50	5×25																				
MGRS-40-180	105				52.5 1×75	6×25																				
MGRS-40-205	130				27.5 2×75	7×25																				

SLIDE TABLE

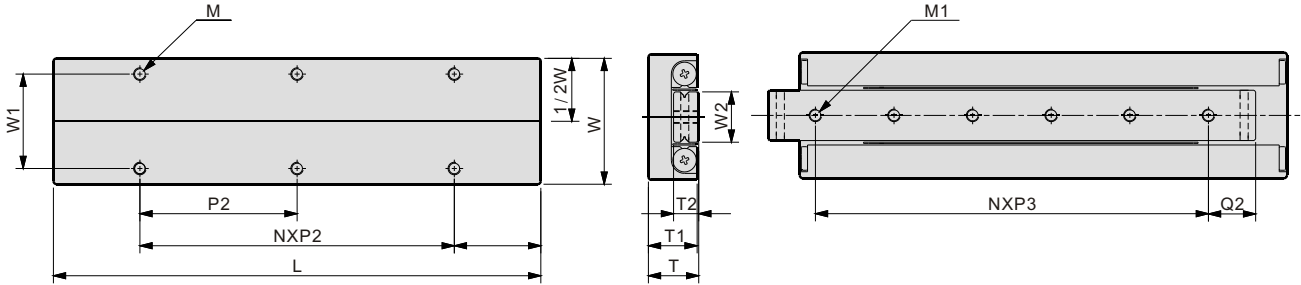


● Each of load and torque changes oppositely in stroke variation.

Model	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)	
				M _R (N.m)	M _P (N.m)	M _Y (N.m)	Standard	Antirust	Center parallelism	Side parallelism
MGRS-20-25	379	576	192	1.4	1.2	1.4	0.01	0.02	2	4
MGRS-20-35	523	865	288	2.2	2.6	3.0	0.02	0.03		
MGRS-20-45	657	1,153	384	2.9	4.6	5.2	0.03	0.05		
MGRS-20-55	783	1,441	480	3.6	7.2	7.9	0.03	0.06		
MGRS-20-65	903	1,729	576	4.3	10.4	11.2	0.04	0.07		
MGRS-20-75	1,131	2,306	769	5.8	18.4	17.3	0.05	0.08		
MGRS-20-85	1,240	2,594	865	6.5	23.3	22.0	0.05	0.09		
MGRS-30-35	895	1,170	390	5.1	3.1	3.9	0.05	0.05	2	4
MGRS-30-50	1,552	2,339	780	10.1	12.5	10.9	0.07	0.12		
MGRS-30-65	1,849	2,924	975	12.7	19.5	17.5	0.10	0.16		
MGRS-30-80	2,134	3,509	1,170	15.2	28.1	30.4	0.12	0.19		
MGRS-30-95	2,407	4,093	1,364	17.7	38.2	40.9	0.14	0.23		
MGRS-30-110	2,930	5,263	1,754	22.8	63.2	59.6	0.16	0.27		
MGRS-30-125	3,181	5,848	1,949	25.3	78.0	74.1	0.18	0.30		
MGRS-40-55	2,901	4,567	1,522	26.5	22.8	26.6	0.15	0.24	2	5
MGRS-40-80	4,338	7,611	2,537	44.1	63.4	57.1	0.22	0.35		
MGRS-40-105	5,646	10,655	3,552	61.8	124.3	115.4	0.29	0.46		
MGRS-40-130	6,268	12,178	4,059	70.6	162.4	172.5	0.36	0.58		
MGRS-40-155	4,762	15,222	5,074	88.3	259.7	266.4	0.42	0.69		
MGRS-40-180	8,603	18,266	6,089	105.9	365.3	350.1	0.49	0.80		
MGRS-40-205	9,157	19,789	6,596	114.8	428.8	445.2	0.56	0.91		

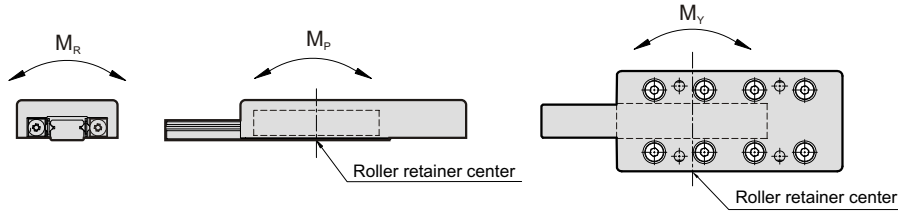
MGRS-S Dimensions

SLIDE TABLE



(mm)

Model	Max. stroke	Roller dia.	main dimensions			Mounting dimensions												
			W	T	L	T ₁	T ₂	W ₂	W ₁	M	M ₁	Q	Q ₂	N × P ₂	N × P ₃			
MGRS-20-25-S	12	φ 1.5	20 ^{±0.1}	8 ^{±0.1}	25	7.5	4	6.6	14	M2.5 × 3.5L	M2.6	12.5	7.5	1 × 18	2 × 7.5			
MGRS-20-35-S	18				35											3.5	1 × 28	2 × 10
MGRS-20-45-S	25				45													
MGRS-20-55-S	32				55											1 × 30	4 × 10	
MGRS-20-65-S	40				65													2 × 20
MGRS-20-75-S	45				75											1 × 30	6 × 10	
MGRS-20-85-S	50				85													22.5
MGRS-30-35-S	18	φ 2.0	30 ^{±0.1}	12 ^{±0.1}	35	11.5	6	12	22	M3 × 5.5L	M3	17.5	10	1 × 28	1 × 20			
MGRS-30-50-S	30				50											3.5	1 × 43	2 × 15
MGRS-30-65-S	40				65													
MGRS-30-80-S	50				80											17.5	1 × 45	4 × 15
MGRS-30-95-S	60				95													
MGRS-30-110-S	70				110											17.5	1 × 45	6 × 15
MGRS-30-125-S	80				125													
MGRS-40-55-S	30	φ 3.0	40 ^{±0.1}	16 ^{±0.1}	55	15.5	8	16	30	M4 × 7.5L	M4 × 7.5L	27.5	15	1 × 40	1 × 40			
MGRS-40-80-S	45				80											7.5	1 × 65	1 × 65
MGRS-40-105-S	60				105													
MGRS-40-130-S	75				130											27.5	1 × 75	1 × 75
MGRS-40-155-S	90				155													
MGRS-40-180-S	105				180											27.5	1 × 75	1 × 75
MGRS-40-205-S	130				205													



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

Model	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
MGRS-20-25-S	379	576	192	1.4	1.2	1.4	0.02	2	4
MGRS-20-35-S	523	865	288	2.4	2.6	3.0	0.03		
MGRS-20-45-S	657	1,153	384	2.9	4.6	5.2	0.04		
MGRS-20-55-S	783	1,441	480	3.6	7.2	7.9	0.05		
MGRS-20-65-S	903	1,729	576	4.3	10.4	11.2	0.06		
MGRS-20-75-S	1,131	2,306	769	5.8	18.4	17.3	0.07		
MGRS-20-85-S	1,240	2,594	865	6.5	23.3	22.0	0.08		
MGRS-30-35-S	895	1,170	390	5.1	3.1	3.9	0.08		2
MGRS-30-50-S	1,552	2,339	780	10.1	12.5	10.9	0.12		
MGRS-30-65-S	1,849	2,924	975	12.7	19.5	17.5	0.15		
MGRS-30-80-S	2,134	3,509	1,170	15.2	28.1	30.4	0.19		
MGRS-30-95-S	2,407	4,093	1,364	17.7	38.2	40.9	0.22		
MGRS-30-110-S	2,930	5,263	1,754	22.8	63.2	59.6	0.26		
MGRS-30-125-S	3,181	5,848	1,949	25.3	78.0	74.1	0.29		
MGRS-40-55-S	2,901	4,567	1,522	26.5	22.8	26.6	0.23	3	
MGRS-40-80-S	4,338	7,611	2,537	44.1	63.4	57.1	0.34		
MGRS-40-105-S	5,646	10,655	3,552	61.8	124.3	115.4	0.45		
MGRS-40-130-S	6,268	12,178	4,059	70.6	162.4	172.5	0.56		
MGRS-40-155-S	4,762	15,222	5,074	88.3	253.7	266.4	0.67		
MGRS-40-180-S	8,603	18,266	6,089	105.9	365.3	350.1	0.78		
MGRS-40-205-S	9,157	19,789	6,596	114.8	428.8	445.2	0.89		