

Specification

Model No.			Max. Stroke (mm)	Roller Dia. (mm)	Main Dimensions (mm)			Table Mounting Dimensions (mm)																							
Standard	Antirust	Black Coating			W	T	L	W ₃	W ₄	W ₇	W ₈	Q	Q ₇	Q ₈	N*P	M	n*p	S	d ₃	T ₁	T ₂										
GRA30-25	GRA30-25-N	GRA30-25-B	12	Ø1.5	30±0.1	11±0.1	25	10	10	18.4	5.8	12.5	7.5	7.5	3*10	M2	4*10	40	4.1	11	7										
GRA30-35	GRA30-35-N	GRA30-35-B	18				35															4.5	1*10	2*10	26						
GRA30-45	GRA30-45-N	GRA30-45-B	25				45															6	2*10	3*10	33						
GRA30-55	GRA30-55-N	GRA30-55-B	32				65															8.5	4*10	5*10	48						
GRA30-65	GRA30-65-N	GRA30-65-B	40				75															11	5*10	6*10	53						
GRA30-75	GRA30-75-N	GRA30-75-B	45				85															13.5	6*10	7*10	58						
GRA30-85	GRA30-85-N	GRA30-85-B	50				85															13.5	6*10	7*10	58						
GRA40-35	GRA40-35-N	GRA40-35-B	18	Ø2.0	14±0.1	35	25	7.5	10	3	/	1*15	29	6	14	8	12.5	4.5	1*15	1*25	41										
GRA40-50	GRA40-50-N	GRA40-50-B	30																			50	20	7	2*15	1*25	51				
GRA40-65	GRA40-65-N	GRA40-65-B	40																			65	20	7	2*15	1*25	51				
GRA40-80	GRA40-80-N	GRA40-80-B	50	Ø3.0	40±0.1	15±0.1	15	12.5	25.5	7.25	17.5	15	9.5	3*15	M3	2*25	61	7.5	15	7	22.5	12	4*15	2*25	71						
GRA40-95	GRA40-95-N	GRA40-95-B	60																							95	22.5	12	4*15	2*25	71
GRA40-110	GRA40-110-N	GRA40-110-B	70																							110	17.5	14.5	5*15	3*25	81
GRA40-125	GRA40-125-N	GRA40-125-B	80																							125	25	17	6*15	3*25	91
GRA60-55	GRA60-55-N	GRA60-55-B	30																							Ø3.0	60±0.1	18.5±0.1	25	17.5	39
GRA60-80	GRA60-80-N	GRA60-80-B	45	80	10.5	1*25	2*25	59																							
GRA60-105	GRA60-105-N	GRA60-105-B	60	105	15.5	2*25	3*25	74																							
GRA60-130	GRA60-130-N	GRA60-130-B	75	130	20.5	3*25	4*25	89																							
GRA60-155	GRA60-155-N	GRA60-155-B	90	155	25.5	4*25	5*25	104																							
GRA60-180	GRA60-180-N	GRA60-180-B	105	180	30.5	5*25	6*25	119																							
GRA60-205	GRA60-205-N	GRA60-205-B	130	205	30.5	6*25	7*25	144																							

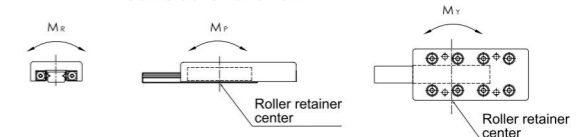
Ordering Example :	GRA	30	25	N
	A type table	Table width	Table length	Antirust



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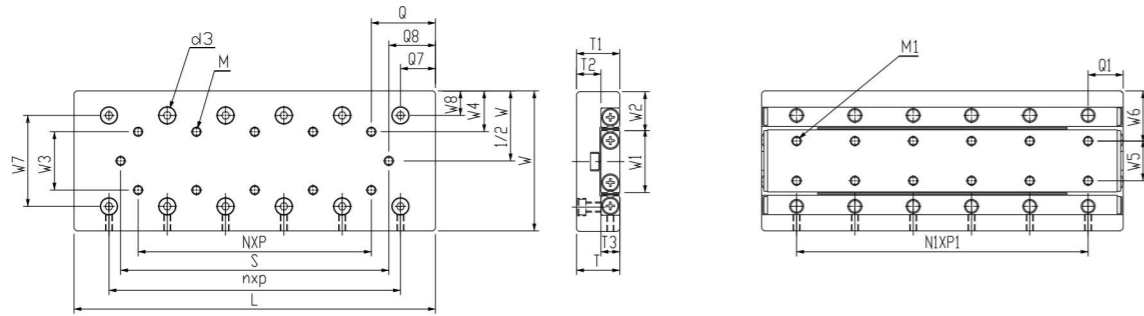
Material Model No.	Table	Rail	Retainer	Roller
GRA	Aluminum alloy +black anodized	SUJ2	SUS304	SUJ2
GRA - N	S50C+Ni	SUJ2+Ni	SUS304	SUJ2
GRA - B	S50C +phosphate	SUJ2	SUS304	SUJ2

GRA-N No Surface finished to V-groove surface of the rail.



★ 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)	Allow-able Load Fu(N)	Static Rated Moment			Weight (kg)		Table Moving Accuracy (µm)	
T ₃	W ₁	W ₂	W ₅	W ₆	N ₁ *P ₁	Q ₁				M ₁	M _R (N·m)	M _P (N·m)	M _Y (N·m)	Standard	Antirust	Center Parallelism
4	12.8	8.6	/	15	1*10	7.5	M2	379	576	192	2.6	1.2	1.4	0.03	0.05	
					2*10			523	865	288	3.9	2.6	3.0	0.04	0.08	
					3*10			657	1,153	384	5.2	4.6	5.2	0.05	0.10	
					4*10			783	1,441	480	6.5	7.2	7.9	0.06	0.12	
					5*10			903	1,729	576	7.8	10.4	11.2	0.07	0.15	
					6*10			1,131	2,306	769	10.4	18.4	17.3	0.09	0.17	
6	17	11.5	/	20	1*15	10	M3	8,95	1,170	390	7.0	3.1	3.9	0.07	0.13	
					1*25			2,901	4,567	1,522	42.6	22.8	26.6	0.13	0.21	
					1*25			2,901	4,567	1,522	42.6	22.8	19.0	0.14	0.25	
					2*25			4,338	7,611	2,537	71.0	63.4	57.1	0.20	0.33	
					2*25			3,640	6,089	2,030	56.8	40.6	45.7	0.21	0.36	
					3*25			5,005	9,133	3,044	85.2	91.3	98.9	0.27	0.45	
8	26.6	16.7	17	21.5	1*25	15	M4	2,901	4,567	1,522	42.6	22.8	26.6	0.23	0.43	
					2*25			4,338	7,611	2,537	71.0	63.4	57.1	0.34	0.62	
					3*25			5,646	10,655	3,552	99.5	124.3	115.4	0.45	0.82	
					4*25			6,268	12,178	4,059	113.7	162.4	172.5	0.57	1.02	
					5*25			7,462	15,222	5,074	142.1	253.7	266.4	0.66	1.21	
					6*25			8,603	18,266	6,089	170.5	365.3	350.1	0.77	1.41	
8	26.6	16.7	17	21.5	7*25	15	M4	9,157	19,789	6,596	184.7	428.8	445.2	0.87	1.60	
					7*25			9,157	19,789	6,596	184.7	428.8	445.2	0.87	1.60	



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Standard	Antirust	Black Coating			W	T	L	W ₃	W ₄	W ₇	W ₆	Q	Q ₇	Q ₈	N*P	M	n*p	S	d ₃	T ₁	T ₂
GRA80-85	GRA80-85-N	GRA80-85-B	50		85											10.5	/	1*40	64		
GRA80-125	GRA80-125-N	GRA80-125-B	75		125											18	1*40	2*40	89		
GRA80-165	GRA80-165-N	GRA80-165-B	105		165											23	2*40	3*40	119		
GRA80-205	GRA80-205-N	GRA80-205-B	135	Ø4.0	80±0.1	24±0.1	205	40	20	53	13.5	42.5	22.5	28	3*40	M5	4*40	149	9.5	24	13
GRA80-245	GRA80-245-N	GRA80-245-B	155		245											38	4*40	5*40	169		
GRA80-285	GRA80-285-N	GRA80-285-B	185		285											43	5*40	6*40	199		
GRA80-325	GRA80-325-N	GRA80-325-B	215		325											48	6*40	7*40	229		
GRA100-110	GRA100-110-N	GRA100-110-B	60		110											16.5	/	1*50	77		
GRA100-160	GRA100-160-N	GRA100-160-B	95		160											23.5	1*50	2*50	113		
GRA100-210	GRA100-210-N	GRA100-210-B	130		210											31	2*50	3*50	148		
GRA100-260	GRA100-260-N	GRA100-260-B	165	Ø6.0	100±0.1	31±0.1	260	50	25	64	18	55	30	38.5	3*50	M6	4*50	183	11	31	16
GRA100-310	GRA100-310-N	GRA100-310-B	200		310											46	4*50	5*50	218		
GRA100-360	GRA100-360-N	GRA100-360-B	235		360											53.5	5*50	6*50	253		
GRA100-410	GRA100-410-N	GRA100-410-B	265		410											63.5	6*50	7*50	283		
GRA145-210	GRA145-210-N	GRA145-210-B	130		210											27	/	1*100	156		
GRA145-310	GRA145-310-N	GRA145-310-B	180		310											52	1*100	2*100	206		
GRA145-410	GRA145-410-N	GRA145-410-B	350	Ø9.0	145±0.1	42.5±0.1	410	85	30	98	23.5	105	55		2*100	M8	3*100	376	14	43	21
GRA145-510	GRA145-510-N	GRA145-510-B	450		510											17	3*100	4*100	476		
GRA145-610	GRA145-610-N	GRA145-610-B	550		610												4*100	5*100	576		

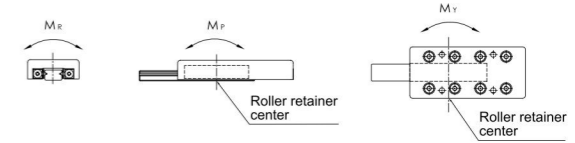
Ordering Example :	GRA	30	25	N
	A type table	Table width	Table length	Antirust



Material Specification

Component	Table	Rail	Retainer	Roller
Material Model No.	GRA	GRA - N	GRA - B	
	Aluminum alloy +black anodized	S50C+Ni	S50C +phosphate	
		SUJ2+Ni	SUJ2	
		SUS304	SUS304	
		SUJ2	SUJ2	

GRA-N No Surface finished to V-groove surface of the rail.



★ 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)	Allow-able Load Fu(N)	Static Rated Moment			Weight (kg)		Table Moving Accuracy (µm)		
T ₃	W ₁	W ₂	W ₅	W ₆	N ₁ *P ₁	Q ₁				M ₁	M _R (N·m)	M _P (N·m)	M _V (N·m)	Standard	Antirust	Center Parallelism	Side Parallelism
					1*40			6,617	9,357	3,119	124.8	87.3	76.4	0.64	1.17	2	5
					2*40			9,097	14,035	4,678	187.1	196.5	180.1	0.95	1.72		6
					3*40			10,264	16,375	5,458	218.3	267.5	286.6	1.25	2.27		
11	38	21	27	26.5	4*40	22.5	M5	12,496	21,053	7,018	280.7	442.1	466.7	1.56	2.83	3	
					5*40			14,612	25,732	8,577	343.1	660.4	690.5	1.87	3.39		7
					6*40			16,646	30,410	10,137	405.5	922.4	957.9	2.18	3.94		
					7*40			18,612	35,089	11,696	467.8	1228.1	1187.2	2.49	4.50	4	8
					1*50			13,923	21,053	7,018	315.8	2525.6	221.1	1.31	2.39		6
					2*50			16,592	26,316	8,772	394.7	394.7	434.2	1.93	3.50		
					3*50			21,592	36,842	12,281	552.6	773.7	828.9	2.56	4.61	3	
15	42	29	26	37	4*50	30	M6	26,285	47,369	15,790	710.5	1279.0	1207.9	3.16	5.70		7
					5*50			30,744	57,895	19,298	868.4	1910.5	1823.7	3.78	6.81		
					6*50			35,024	68,421	22,807	1026.3	2668.4	2565.8	4.41	7.93	4	8
					7*50			39,160	78,948	26,316	1184.2	3552.6	3434.2	5.03	9.04		
					1*100			46,991	72,741	24,247	1745.8	1697.3	1527.6	5.35	9.30	3	7
					2*100			61,165	101,838	33,946	2444.1	3326.7	3564.3	7.96	13.79		
21	68.4	38.3	46	49.5	3*100	55	M8	67,898	116,386	38,795	2793.3	4345.1	4073.5	10.47	18.18		
					4*100			80,829	145,482	48,494	3491.6	6789.2	6449.7	13.06	22.66	4	8
					5*100			93,191	158,400	52,800	2640.0	8870.4	8500.8	15.65	27.14		