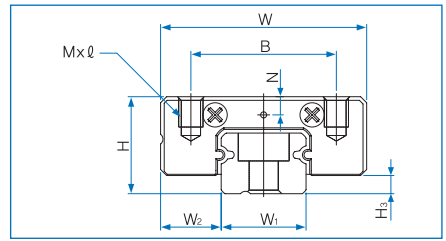
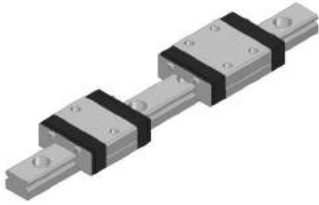


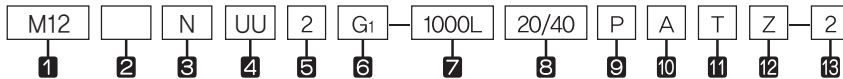
M Series



Model No.	External dimension			Dimensions of block							Grease nipple	H ₃
	Height H	Width W	Length L	B	C	M x ℓ	L ₁	N	E			
M 5C	6	12	17	8	—	M2 x 1.5	9.4	1.2	—	—	1	
M 5N			20		—		7					M2.6 x 1.5
M 5NA			—	—	—	—	—					—
M 7C	8	17	19.8	12	—	M2 x 2.5	9.6	1.5	—	—	1.5	
M 7N			24.3		8		14.1					
M 7L			31.8		13		21.6					
M 7LA			—		12		—					
M 9C	10	20	22.4	15	—	M3 x 3	11.8	2.2	—	—	2	
M 9N			31.3		10		20.7					
M 9L			41.4		16		30.8					
M 9LA			—		15		—					
M 12C	13	27	26.4	20	—	M3 x 3.5	12.8	2.7	—	—	3	
M 12N			34.9		15		21.3					
M 12L			45.4		20		31.8					
M 15C	16	32	34.4	25	—	M3 x 4	17.7	3.1	4	A-M3	4	
M 15N			44.4		20		27.7					
M 15L			59.4		25		42.7					
M 20C	20	40	39.8	30	—	M4 x 6	22.2	4.2	4	A-M3	5	
M 20N			51.8		25		34.2					
M 20L			69.8		30		52.2					

Composition of Model No.

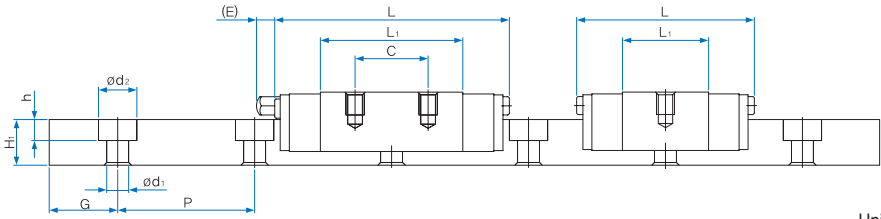
*Bearing steel material of rails for the type of MT12 and MT15 are available.



- 1 Model No. of Linear Motion Guide
- 2 Type of block : **No symbol**—Full-ball type
- 3 Form of block : **C**—Rectangular short type / **N**—Rectangular standard type / **L**—Flange long type
- 4 Type of seal : **UU**—End seal / **UULF**—End seal + LF seal (*1)
- 5 Number of blocks combined in 1 rail
- 6 Symbol of clearance : **No symbol**—Normal preload / **G1**—Light preload (*2)
- 7 Length of rail
- 8 Size of G value : standard G value has no symbol.
- 9 Symbol of precision : **No symbol**—Moderate precision / **H**—High precision / **P**—Precision (*3)
- 10 **No symbol**—Rail counter bore type (A topside assembly) / **A**— Rail tap hole type (an underside assembly) (*4)
- 11 Connection symbol
- 12 Special symbol
- 13 Number of axis used on the same surface

(*1) See P89 Symbol List of Optional Parts (*2) See P17 Radial Clearance

(*3) See P24 Selection of Precision Class (*4) See P75 The reference for standard tap hole type of a rail



Unit : mm

Dimensions of Rail						Basic load rating		Static allowance moment N·m					Mass	
Width W ₁	W ₂	Heigh H ₁	Value G	Pitch P	d ₁ x d ₂ x h	C N	C ₀ N	M _p		M _y		M _r	Block g	Rail g/m
								1	2(contact)	1	1	1		
5 ⁰ _{-0.02}	3.5	3.7	5	15	2.4x3.6x0.8	516	757	1.3	7.1	1.3	7.1	2.01	3.1	139
						631	1,009	2.2	11.6	2.2	11.6	2.67	4.0	
7 ⁰ _{-0.02}	5	5	5	15	2.4x4.2x2.3	901	1,136	1.9	11.8	1.9	11.8	4.14	6.4	253
						1,197	1,703	4.2	23.1	4.2	23.1	6.22	9.0	
						1,631	2,650	10.1	50.0	10.1	50.0	9.67	12.6	
9 ⁰ _{-0.02}	5.5	6	7.5	20	3.5x6x3.5	1,180	1,485	3.1	17.9	3.1	17.9	6.90	9.9	391
						1,721	2,545	9.3	46.6	9.3	46.6	11.84	17.1	
						2,375	4,030	21.9	102.8	21.9	102.8	18.74	25.2	
12 ⁰ _{-0.025}	7.5	8	10	25	3.5x6.5x4.5	2,175	2,385	5.4	32.9	5.4	32.9	14.79	19.8	679
						3,023	3,816	14.4	75.8	14.4	75.8	23.66	31.5	
						4,246	6,200	34.8	169.1	34.8	169.1	38.44	45.9	
15 ⁰ _{-0.025}	8.5	10	15	40	3.5x6.5x4.5	3,418	3,895	12.2	71.6	12.2	71.6	29.99	37.8	1071
						4,540	5,842	28.6	148.7	28.6	148.7	44.99	57.6	
						6,492	9,737	73.5	351.2	73.5	351.2	74.98	85.5	
20 ⁰ _{-0.03}	10	11	20	60	6x9.5x5.5	4,512	5,299	20.7	115.9	20.7	115.9	54.05	80.1	1572
						6,191	8,328	50.2	252.7	50.2	252.7	84.94	119.7	
						8,396	12,870	118.6	554.4	118.6	554.4	131.27	176.4	

1N=0.102kgf

