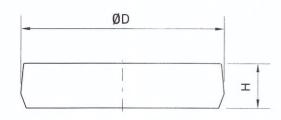
MG Series

Miniature Type

Bolt caps for rail mounting holes

Rail mounting hole caps prevent foreign matter from accumulating in the mounting holes. Caps are included with the rail package.



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Table 2-4-9 Dimensions of Bolt Caps for Rail Mounting Holes

Rail size	Bolt size	Diameter(D) (mm)	Thickness(H) (mm)
MGN12	М3	6.15	1.2
MGN15	M3	6.15	1.2
MGW12	M4	8.15	2.2
MGW14	M4	8.15	2.2
MGW15	M4	8.15	2.2

2-4-15 Mounting Surface Accuracy Tolerance

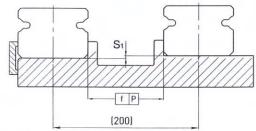


Table 2-4-10 Max. Parallelism Tolerance (F	Max. Parallelism Tolerance (P)	m Tolerance (F	Parallelism T	2-4-10 Max.	Table 2-4-10
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MG7

Table 2-4-10	Max. Paralleli	sm Tolerance (P)					u	nit: µm
Size	Preload	classes		Cimo	Preload o	lasses		
	ZF	ZO	Z1	Size	ZF	ZO	Z1	
MG2	2	2	2	MG9	4	4	3	
MG3	2	2	2	MG12	9	9	5	
MG5	2	2	2	MG14	10	10	6	

MG15

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Table 2-4-1	Max. Tolerand	e of Reference S	urface Height (S ₁)			un	nit: μm	
Size	Preload o	classes		C:	Preload				
	ZF	ZO	Z1	Size	ZF	Z 0	Z1		
MG2	15	15	2	MG9	35	35	6		
MG3	15	15	2	MG12	50	50	12		
MG5	20	20	2	MG14	60	60	20		
MG7	25	25	3	MG15	60	60	20		

Table 2-4-12	Dannala silala	F 6	A4	r
18010 /-4-1/	Permissinie	Frror or	Mounting	Surrace

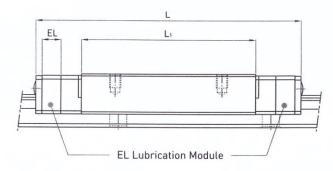
Table 2-4-12	Permissible Error of Mounting Surface		unit: mm
Size	Flatness of the Mounting Surface	Size	Flatness of the Mounting Surface
MG2	0.012/200	MG9	0.035/200
MG3	0.012/200	MG12	0.050/200
MG5	0.015/200	MG14	0.060/200
MG7	0.025/200	MG15	0.060/200

Note: The values above are suitable for preload of ZF/Z0. For preload of Z1 or using two(or more) rails on the same plane, 50% or less of the values above are recommended.

MG Series

Miniature Type

(4) Dimension Table for EL Type

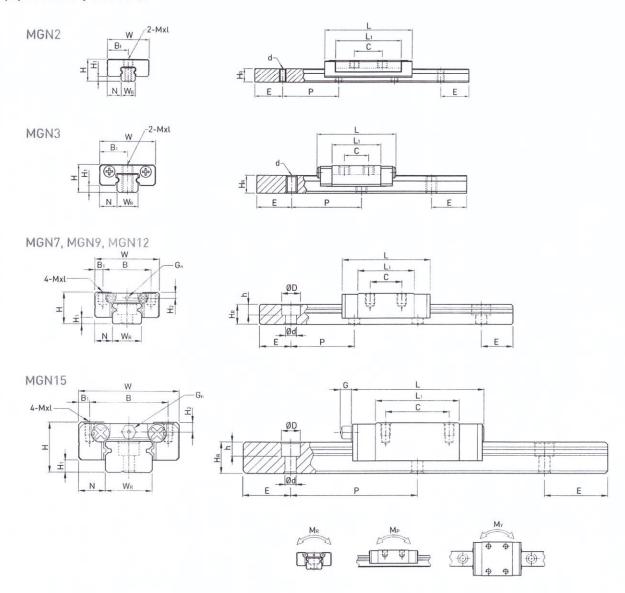


 $\mathsf{unit}:\mathsf{mm}$

Model No.	Lubrication device	Block length	Total length
Model No.	$[R_1]$	(L ₁)	(L)
MGN7C	3.5	13.5	29.5
MGN7H	3.5	21.8	37.8
MGN9C	5	18.9	38.9
MGN9H	3	29.9	49.9
MGN12C	5	21.7	44.7
MGN12H	3	32.4	55.4
MGW9C	5	27.5	49.3
MGW9H	J	38.5	60.7
MGW12C	5	31.3	56.1
MGN7H MGN9C MGN9H MGN12C MGN12H MGW9C MGW9H	J	45.6	70.4

2-4-19 Dimensions for MGN/MGW Series

(1) MGN-C / MGN-H



Dimensions of Assembly Model No. (mm)				Dimensions of Block (mm)							Dimensions of Rail (mm)							m)	Mounting Bolt for Rail	Basic Dynamic Load	Load	Static Rated Moment			Weight																
			,																		Nait	Rating	Rating	M_R	$M_{\rm p}$	M_{γ}	Block	Rail													
	Н	H_1	N	W	В	B_1	C	L	L	G	G_n	Mxl	H_2	$W_{\scriptscriptstyle R}$	H_R	D	h	d	P	E	(mm)	C(kN)	$C_0[kN]$	N-m	N-m	N-m	kg	kg/m													
MGN 2C	3.2	0.7	2	6	-	3	4	9.5	12.5	-	-	M1.4 THRU	-	2	2	М	1 TH	RU	8	4	M1	0.22	0.4	0.42	0.63	0.63	0.001	0.03													
MGN 3C	,	1	2.5	8		,	3.5	7	11.3			M1.6x1.3		•	0.4			IDI.	10	-	144.7	0.29	0.44	0.7	0.5	0.5	0.001	0.05													
MGN 3H	4		2.5	0	•	4	5.5	11	15.3			M2x1.3	-	- 3	3 2.6 M	MI	M1.6 THRU	10	5	M1.6	0.39	0.68	1.0	1.3	1.3	0.002	0.05														
MGN 7C	0	1.5	5	17	12	2.5	8	13.5	22.5		01.0	M22 F	1 5		/ 0	/ 0	2.3	0.1	15	-	110-7	0.98	1.24	4.70	2.84	2.84	0.010	0.00													
MGN 7H	0	1.5	3	17	12	2.5	13	21.8	30.8		Ø1.2	M2x2.5	1.5	1	4.8	4.2 2.		2.4	15	5	M2x6	1.37	1.96	7.64	4.80	4.80	0.015	0.22													
MGN 9C	10	2	5.5	20	15	2.5	10	18.9	28.9		Ø1.4	M3x3	1.8	0	1 =	,	2.5	2.5	20	75	W20	1.86	2.55	11.76	7.35	7.35	0.016	0.00													
MGN 9H	10	-	3.3	20	13	2.3	16	29.9	39.9	-	Ø1.4	MSXS	1.8	9	6.5	6	3.5 3.5	20	7.5	M3x8	2.55	4.02	19.60	18.62	18.62	0.026	0.38														
MGN 12C	12	2	7.5	27	20	3.5	15	21.7	34.7		Ø2	M22 E	2 5	10	0	,	, -	2 5	25	10	M20	2.84	3.92	25.48	13.72	13.72	0.034	0.75													
MGN 12H	13	3	7.5	21	20	3.3	20	32.4	45.4	-	WZ	M3x3.5	2.5	12	8	6	4.5	3.5	25	10	M3x8	3.72	5.88	38.22	36.26	36.26	0.054	0.65													
MGN 15C	1/	,	8.5	32	25	3.5	20	26.7	42.1	, -	140	140 /	•	45					10		110 10	4.61	5.59	45.08	21.56	21.56	0.059														
MGN 15H	16	16	16	16	16	16	16	16	16	16	16	16	16	4	0.0	32	25	3.5	25	43.4	58.8	4.5	МЗ	M3x4	3	15	10	6	6 4.5		4.5 3.5	40	15	5 M3x10	6.37	9.11	73.50	57.82	57.82	0.092	1.06

Note : 1. 1 kgf = 9.81N

2. MG2, MG3 blocks should not be removed from the rail. If removing the blocks is necessary, the blocks should be kept on the block inserts.