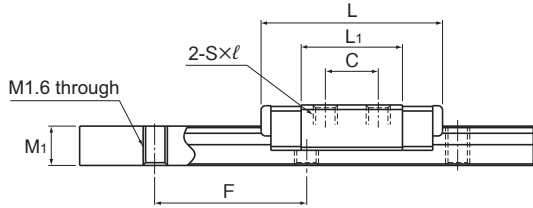
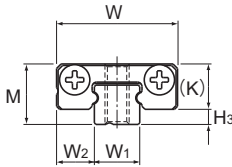
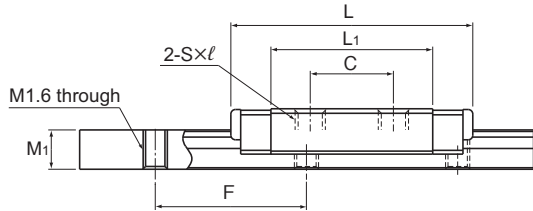
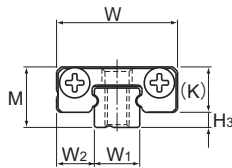


# Models RSR-M, RSR-N and RSR-TN



Model RSR3M

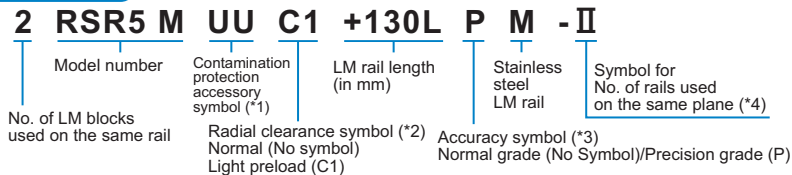


Model RSR3N

Model No.	Outer dimensions			LM block dimensions										H <sub>3</sub>
	Height	Width	Length	B	C	S × l	L <sub>1</sub>	T	K	N	E	Greasing hole d	Grease nipple	
	M	W	L											
RSR 3M RSR 3N	4	8	12 16	—	3.5 5.5	M1.6 × 1.3 M2 × 1.3	6.7 10.7	—	3	—	—	—	—	1
RSR 5M RSR 5N RSR 5TN	6	12	16.9 20.1 20.1	8 — 8	— 7 —	M2 × 1.5 M2.6 × 1.8 M2 × 1.5	8.8 12 12	—	4.5	0.8	—	0.8	—	1.5

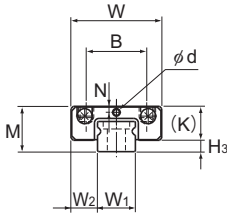
Note) Since stainless steel is used in the LM block, LM rail and balls, these models are highly resistant to corrosion and environment. Models RSR3M and 3N do not have an oil hole. When lubricating them, apply a lubricant directly to the LM rail raceways. No contamination protection seal for RSR3M/3N. To secure the LM rail of models RSR5M and 5N, use cross-recessed head screws for precision equipment (No. 0 pan head screw, class 1) M2.

## Model number coding

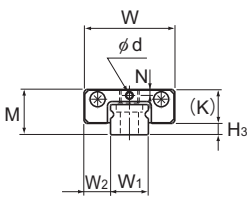
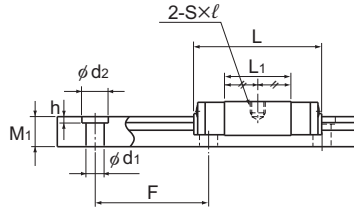


(\*1) See contamination protection accessory on **A1-510**. (\*2) See **A1-71**. (\*3) See **A1-83**. (\*4) See **A1-13**.

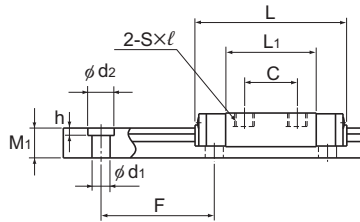
Note) This model number indicates that a single-rail unit constitutes one set. (i.e., required number of sets when 2 rails are used in parallel is 2 at a minimum.)



Models RSR5M/5TN



Model RSR5N



Unit: mm

LM rail dimensions							Basic load rating		Static permissible moment N-m*					Mass	
Width	Height	Pitch	Length*	C	C <sub>0</sub>	M <sub>A</sub>	M <sub>B</sub>	M <sub>C</sub>	LM block		LM rail				
									W <sub>1</sub>	W <sub>2</sub>	M <sub>1</sub>	F	d <sub>1</sub> × d <sub>2</sub> × h	Max	kN
3 <sup>0</sup> <sub>-0.02</sub>	2.5	2.6	10	—	220	0.18	0.27	0.293	2.11	0.293	2.11	0.45	0.0011	0.055	
						0.3	0.44	0.726	4.33	0.726	4.33	0.73	0.0016		
5 <sup>0</sup> <sub>-0.02</sub>	3.5	4	15	2.4 × 3.5 × 1	480	0.32	0.59	0.884	6.51	0.884	6.51	1.53	0.003	0.14	
						0.55	0.96	1.84	11.9	1.84	11.9	2.49	0.004		
						0.55	0.96	1.84	11.9	1.84	11.9	2.49	0.004		

Note) The maximum length under "Length\*" indicates the standard maximum length of an LM rail. (See **A1-264**.)

Static permissible moment\*: 1 block: static permissible moment value with 1 LM block

Double blocks: static permissible moment value with 2 blocks closely contacting with each other

● Recommended tightening torque when mounting the LM rail/block

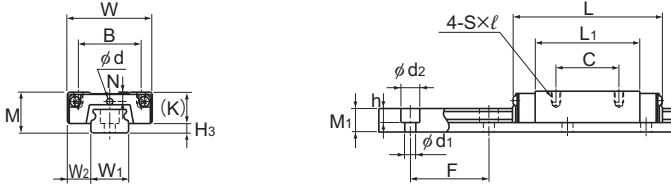
Table1 shows recommended bolt tightening torques when mounting the LM block and LM rail of models RSR3M/3N.

Table1 Recommended Tightening Torques of Mounting Bolts

Model No. of screw	Recommended tightening torque (N-m)
M1.6	0.09
M2	0.19

Note) Applicable to austenite stainless steel hexagonal-socket-head type bolts.

# Models RSR-M, RSR-KM, RSR-VM and RSR-N

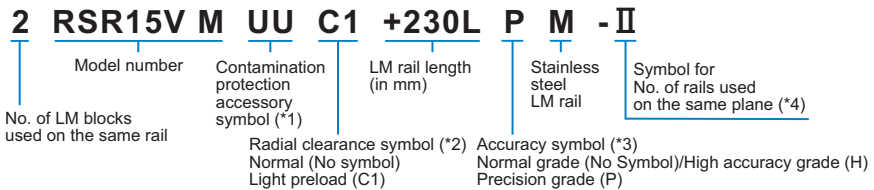


Models RSR7 to 12N/7M/9KM/12VM

Model No.	Outer dimensions			LM block dimensions										Greasing hole	Grease nipple	H <sub>3</sub>
	Height	Width	Length	B	C	S×ℓ	L <sub>1</sub>	T	K	N	E	d				
	M	W	L	B	C	S×ℓ	L <sub>1</sub>	T	K	N	E	d				
RSR 7M RSR 7N	8	17	23.4 33	12	8 13	M2×2.5	13.4 23	—	6.5	1.7	—	1.2	—	1.5		
RSR 9KM RSR 9N	10	20	30.8 40.8	15	10 16	M3×3	19.8 29.8	—	7.8	2.4	—	1.5	—	2.2		
RSR 12VM RSR 12N	13	27	35 47.7	20	15 20	M3×3.5	20.6 33.3	—	10	3	—	2	—	3		
RSR 15VM RSR 15N	16	32	42.9 60.7	25	20 25	M3×4	25.7 43.5	—	12	3.5	3.6 3.7	—	PB107	4		
RSR 20VM RSR 20N	25	46	66.5 86.3	38	38	M4×6	45.2 65	5.7	17.5	5	6.4	—	A-M6F	7.5		

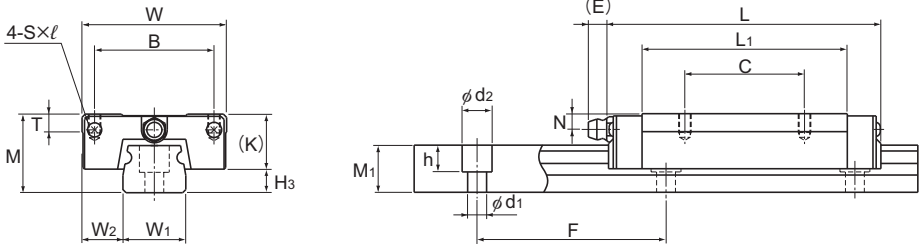
Note) Since stainless steel is used in the LM block, LM rail and balls, these models are highly resistant to corrosion and environment.

## Model number coding



(\*1) See contamination protection accessory on **A1-510**. (\*2) See **A1-71**. (\*3) See **A1-83**. (\*4) See **A1-13**.

Note) This model number indicates that a single-rail unit constitutes one set. (i.e., required number of sets when 2 rails are used in parallel is 2 at a minimum.)



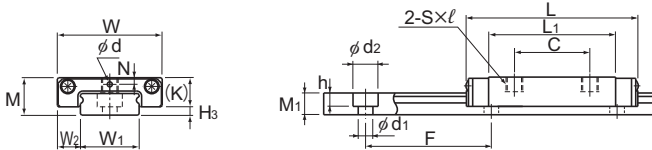
Models RSR15 and 20VM/N

Unit: mm

LM rail dimensions						Basic load rating		Static permissible moment N·m*					Mass	
Width	Height	Pitch	Length*	C	C <sub>0</sub>	M <sub>A</sub>		M <sub>B</sub>		M <sub>C</sub>	LM block	LM rail		
						W <sub>1</sub>	W <sub>2</sub>	M <sub>1</sub>	F	d <sub>1</sub> × d <sub>2</sub> × h			Max	kN
7 <sup>0</sup> <sub>-0.02</sub>	5	4.7	15	2.4 × 4.2 × 2.3	480	0.88 1.59	1.37 2.5	2.93 8.68	20.8 49.9	2.93 8.68	20.8 49.9	5 9.12	0.013 0.018	0.23
9 <sup>0</sup> <sub>-0.02</sub>	5.5	5.5	20	3.5 × 6 × 3.3	1240	1.47 2.6	2.25 3.96	7.34 18.4	43.3 97	7.34 18.4	43.3 97	10.4 18.4	0.018 0.027	0.32
12 <sup>0</sup> <sub>-0.025</sub>	7.5	7.5	25	3.5 × 6 × 4.5	1430	2.65 4.3	4.02 6.65	11.4 28.9	74.9 163	10.1 25.5	67.7 145	19.2 31.8	0.037 0.055	0.58
15 <sup>0</sup> <sub>-0.025</sub>	8.5	9.5	40	3.5 × 6 × 4.5	1600	4.41 7.16	6.57 10.7	23.7 63.1	149 330	21.1 55.6	135 293	38.8 63	0.069 0.093	0.925
20 <sup>0</sup> <sub>-0.03</sub>	13	15	60	6 × 9.5 × 8.5	1800	8.82 14.2	12.7 20.6	75.4 171	435 897	66.7 151	389 795	96.6 157	0.245 0.337	1.95

Note) The maximum length under "Length\*" indicates the standard maximum length of an LM rail. (See **A1-264**.)  
 Static permissible moment\*: 1 block: static permissible moment value with 1 LM block  
 Double blocks: static permissible moment value with 2 blocks closely contacting with each other

# Models RSR-WM(WTM) and RSR-WN(WTN)



Models RSR3 to 7WM/WN

Model No.	Outer dimensions			LM block dimensions											H <sub>3</sub>
	Height M	Width W	Length L	B	C	S × l	L <sub>1</sub>	T	K	N	E	Greasing hole d	Grease nipple		
RSR 3WM RSR 3WN	4.5	12	14.9 19.9	—	4.5 8	M2 × 1.7	8.5 13.3	—	3.5	0.8	—	0.8	—	1	
RSR 5WM RSR 5WTM RSR 5WN RSR 5WTN	6.5	17	22.1 22.1 28.1 28.1	— 13 — 13	6.5 — 11 —	M3 × 2.3 M2.5 × 1.5 M3 × 2.3 M2.5 × 1.5	13.7 13.7 19.7 19.7	—	5	1.1	—	0.8	—	1.5	
RSR 7WM RSR 7WTM RSR 7WN RSR 7WTN	9	25	31 31 40.9 40.9	— 19 — 19	12 8 18 17	M4 × 3.5 M3 × 3 M4 × 3.5 M3 × 3	20.4 20.4 30.3 30.3	—	7	1.6	—	1.2	—	2	

Note) The LM block, rail, and ball material are composed of stainless steel and are corrosion resistant to general environments.  
To secure the LM rail of models RSR3WM and 3WN, use cross-recessed head screws for precision equipment (No. 0 pan head screw, class 1) M2.

## Model number coding

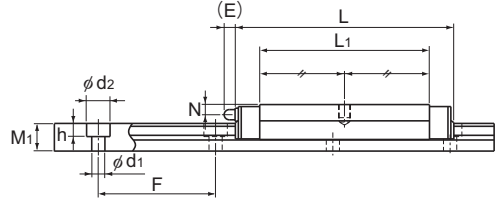
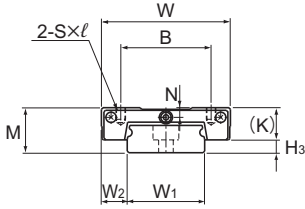
**2** **RSR7WM** **UU** **C1** **+130L** **P** **M**

| Model number | Contamination protection accessory symbol (\*1) | LM rail length (in mm) | Stainless steel LM rail | Accuracy symbol (\*3)

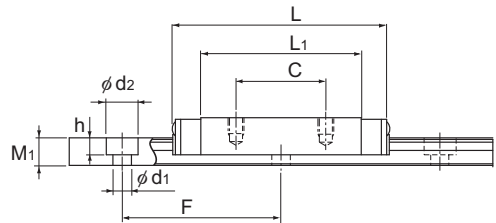
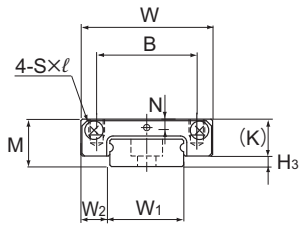
No. of LM blocks used on the same rail | Radial clearance symbol (\*2) | Normal grade (No Symbol)/High accuracy grade (H) | Precision grade (P)

Normal (No symbol) | Light preload (C1)

(\*1) See contamination protection accessory on **A1-510**. (\*2) See **A1-71**. (\*3) See **A1-83**.



Models RSR5WTM/WTN



Models RSR7WTM/WTN

Unit: mm

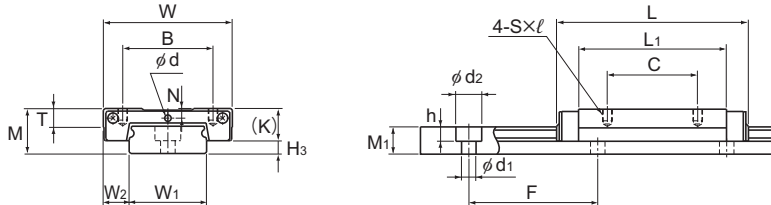
	LM rail dimensions							Basic load rating		Static permissible moment N·m*					Mass		
	Width		Height	Pitch	Length*	C	Co	MA		MB		MC	LM block	LM rail			
	W1	W2						1 block	Double blocks	1 block	Double blocks				1 block		
	W3	M1	F	d1×d2×h	Max	kN	kN	1 block	Double blocks	1 block	Double blocks	1 block	kg	kg/m			
6	0 -0.02	3	—	2.6	15	2.4×4×1.5	480	0.25 0.39	0.47 0.75	0.668 1.57	4.44 9.06	0.668 1.57	4.44 9.06	1.48 2.36	0.002 0.003	0.12	
10	0 -0.025	3.5	—	4	20	3×5.5×3	480	0.51 0.51 0.75 0.75	0.96 0.96 1.4 1.4	1.97 1.97 4.06 4.06	13.1 13.1 23.5 23.5	1.97 1.97 4.06 4.06	13.1 13.1 23.5 23.5	4.89 4.89 7.13 7.13	0.007 0.007 0.01 0.01		0.28
14	0 -0.05	5.5	—	5.2	30	3.5×6×3.2	480	1.37 1.37 2.04 2.04	2.16 2.16 3.21 3.21	7.02 7.02 14.7 14.7	40.7 40.7 77.6 77.6	7.02 7.02 14.7 14.7	40.7 40.7 77.6 77.6	15.4 15.4 22.9 22.9	0.021 0.021 0.026 0.026		

Note) The maximum length under "Length\*" indicates the standard maximum length of an LM rail. (See **A1-264**.)

Static permissible moment\*: 1 block: static permissible moment value with 1 LM block

Double blocks: static permissible moment value with 2 blocks closely contacting with each other

# Models RSR-WV, RSR-WVM and RSR-WN



Models RSR9, 12WV/WVM/WN

Model No.	Outer dimensions			LM block dimensions											H <sub>3</sub>
	Height	Width	Length	B	C	S×ℓ	L <sub>1</sub>	T	K	N	E	Greasing hole d	Grease nipple		
	M	W	L												
RSR 9WV	12	30	39	21	12	M2.6×3	27	—	7.8	2	—	1.6	—	4.2	
* RSR 9WVM			39	21	12	M2.6×3	27								
* RSR 9WN			50.7	23	24	M3×3	38.7								
RSR 12WV	14	40	44.5	28	15	M3×3.5	30.9	4.5	10	3	—	2	—	4	
* RSR 12WVM			44.5				15								30.9
* RSR 12WN			59.5				28								45.9
* RSR 14WVM	15	50	50	35	18	M4×4.5	34.3	6	11.5	3	4	—	PB107	3.5	
RSR 15WV	16	60	55.5	45	20	M4×4.5	38.9	5.6	12	3.5	3	—	PB107	4	
* RSR 15WVM			55.5				20								38.9
* RSR 15WN			74.5				35								57.9

Note) \*The LM block, rail, and ball material are composed of stainless steel and are corrosion resistant to general environments.

## Model number coding

**2 RSR12WV M UU C1 +310L H M**

Model number  
No. of LM blocks  
used on the same rail

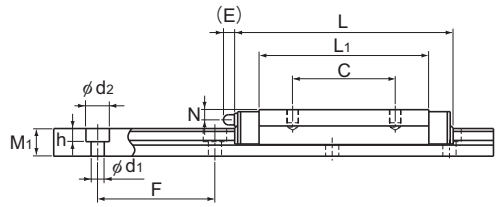
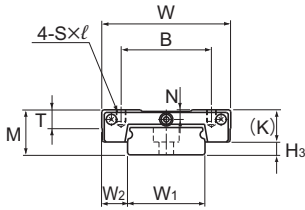
Contamination  
protection  
accessory  
symbol (\*1)

Radial clearance symbol (\*2)  
Normal (No symbol)/Light preload (C1)

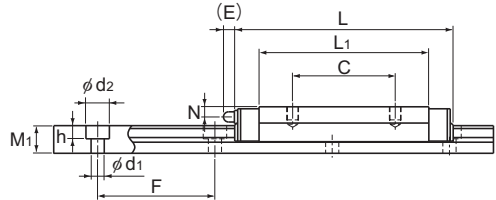
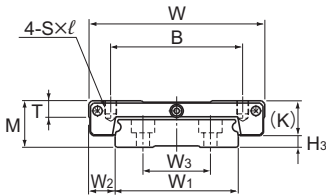
LM rail length  
(in mm)

Stainless steel  
LM rail  
Accuracy symbol (\*3)  
Normal grade (No Symbol)/High accuracy grade (H)  
Precision grade (P)

(\*1) See contamination protection accessory on **A1-510**. (\*2) See **A1-71**. (\*3) See **A1-83**.



Model RSR14WVM



Models RSR15WV/WVM/WWN

Unit: mm

LM rail dimensions							Basic load rating		Static permissible moment N·m*					Mass	
Width	W <sub>2</sub>	W <sub>3</sub>	Height	Pitch	Length*	d <sub>1</sub> × d <sub>2</sub> × h	C	C <sub>0</sub>	M <sub>A</sub>		M <sub>B</sub>		M <sub>C</sub>	LM block	LM rail
									1 block	Double blocks	1 block	Double blocks	1 block		
18 <sup>0</sup> <sub>-0.05</sub>	6	—	7.5	30	3.5 × 6 × 4.5	1430	2.45	3.92	16	92.9	16	92.9	36	0.035	1.08
							2.45	3.92	16	92.9	16	92.9	36	0.035	
							3.52	5.37	31	161	31	161	49.4	0.051	
24 <sup>0</sup> <sub>-0.05</sub>	8	—	8.5	40	4.5 × 8 × 4.5	1600	4.02	6.08	24.5	138	21.7	123	59.5	0.075	1.5
							4.02	6.08	24.5	138	21.7	123	59.5	0.075	
							5.96	9.21	53.9	274	47.3	242	90.1	0.101	
30 <sup>0</sup> <sub>-0.05</sub>	10	—	9	40	4.5 × 7.5 × 5.3	1800	6.01	9.08	43.2	233	38.2	208	110	0.096	2
42 <sup>0</sup> <sub>-0.05</sub>	9	23	9.5	40	4.5 × 8 × 4.5	1800	6.66	9.8	50.3	278	44.4	248	168	0.17	3
							6.66	9.8	50.3	278	44.4	248	168	0.17	
							9.91	14.9	110	555	97.3	490	255	0.21	

Note) The maximum length under "Length\*" indicates the standard maximum length of an LM rail. (See **A1-264**.)

Static permissible moment\*: 1 block: static permissible moment value with 1 LM block

Double blocks: static permissible moment value with 2 blocks closely contacting with each other