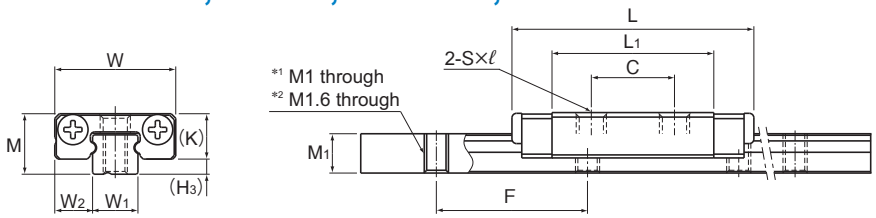
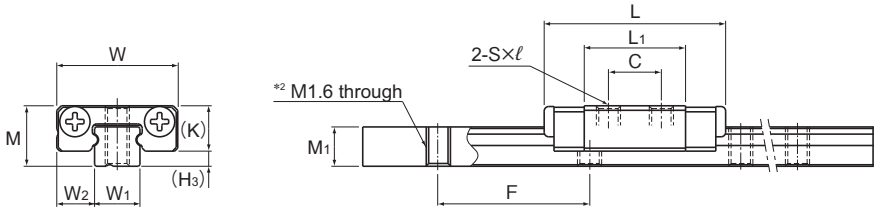
Models RSR-M, RSR-N, RSR-WM, RSR-WN and RSR-WVM



Models RSR2N, RSR3N



Model RSR3M

Model No.	Outer dimensions			LM block dimensions										
	Height	Width	Length								Greasing hole	Grease nipple	
	M	W	L	B	C	S×ℓ	L_1	T	K	N	E	d		H_3
RSR 2N RSR 2WN	3.2 4	6 10	12.4 16.7	—	4 6.5	M1.4×1.1 M2×1.3	8.84 11.9	—	2.5 3	—	—	—	—	0.7 1
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 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 14WVM	15	50	50	35	18	M4×4.5	34.3	6	11.5	3	4	—	PB107	3.5

Note) Models RSR2 and 3 do not have an oil hole. When lubricating them, apply a lubricant directly to the LM rail raceways. No contamination protection seal for RSR2N/2WN/3M/3N.

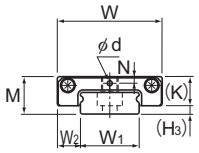
Model number coding

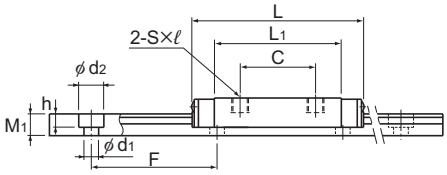
2 RSR3W M UU C1 +80L P M -II

- **2**: No. of LM blocks used on the same rail (*1)
- **RSR3W M**: Model number
- **UU**: Contamination protection accessory symbol (*2)
- **C1**: Radial clearance symbol (*3) — Normal (No symbol) / Light preload (C1)
- **+80L**: LM rail length (in mm)
- **P**: Accuracy symbol (*4) — Normal grade (No Symbol)/Precision grade (P)
- **M**: Stainless steel LM rail
- **-II**: Symbol for No. of rails used on the same plane (*5)

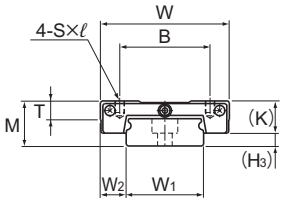
(*1) No symbol for 1 LM block. (*2) See A1-524. (*3) See A1-73. (*4) See A1-84. (*5) See A1-13.

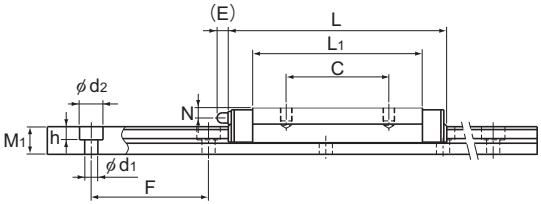
Note) This model number indicates that a single-rail unit constitutes one set. (i.e., required number of sets when 2 rails are used in parallel is 2 at a minimum.)





Models RSR2WN, RSR3WM/WN





Model RSR14WVM

Unit: mm

	LM rail dimensions						Basic load rating		Static permissible moment N·m*						Mass	
	Width		Height	Pitch		Length*	C	C_0	M_A		M_B		M_C		LM block	LM rail
	W_1	W_2	M_1	F	$d_1 \times d_2 \times h$	Max	kN	kN	1 block	Double blocks	1 block	Double blocks	1 block		kg	kg/m
	2 0 4 −0.03	2 3	2 2.6	8 10	—*1 1.8×2.8×0.75	200	0.214 0.395	0.384 0.682	0.564 1.336	2.994 7.32	0.564 1.336	2.994 7.32	0.442 1.501		0.0008 0.0020	0.029 0.075
	3 0 −0.02	2.5	2.6	10	—*2	220	0.18 0.3	0.27 0.44	0.293 0.726	2.11 4.33	0.293 0.726	2.11 4.33	0.45 0.73		0.0011 0.0016	0.055
	6 0 −0.02	3	2.6	15	2.4×4×1.5	335	0.25 0.39	0.47 0.75	0.668 1.57	4.44 9.06	0.668 1.57	4.44 90.6	1.48 2.36		0.002 0.003	0.12
	30 0 −0.05	10	9	40	4.5×7.5×5.3	1800	6.01	9.08	43.2	233	38.2	208	110		0.096	2

Note1) The maximum length under "Length*" indicates the standard maximum length of an LM rail. (See **A1-274**.)
Static permissible moment* 1 block: the static permissible moment with one LM block
Double blocks: static permissible moment when two LM blocks are in close contact with each other
Total block length L : The total block length L shown in the table is the length with the dust-proof parts (code: UU).
The M in the model number symbol indicates that the LM block, LM rail and balls are made of stainless steel.
The stainless steel provides excellent corrosion and environmental resistance.
Please be aware that balls will fall out if the LM block is removed from the LM rail.
Note2) The basic load rating in the dimension table is for a load in the radial direction. Use Table7 on **A1-60** to calculate the load rating for loads in the reverse radial direction or lateral direction.

● 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 RSR2 and RSR3.

Table1 Recommended Tightening Torques of Mounting Bolts

Model No.	Recommended tightening torque (N·m)		Remarks
	Block	Rail	Applicable bolt
RSR 2N	0.09	0.03	Flathead machine screw designed for use with precision equipment
RSR 2WN	0.28	0.138	
RSR 3M	0.09	0.09	Austenitic stainless steel hexagonal-socket-head type bolts
RSR 3N	0.19	0.09	
RSR 3WM/3WN	0.19	—	
	—	0.25	Cross-recessed head screws for precision equipment (No. 0 pan head screw, class 1)

Options⇒A1-485