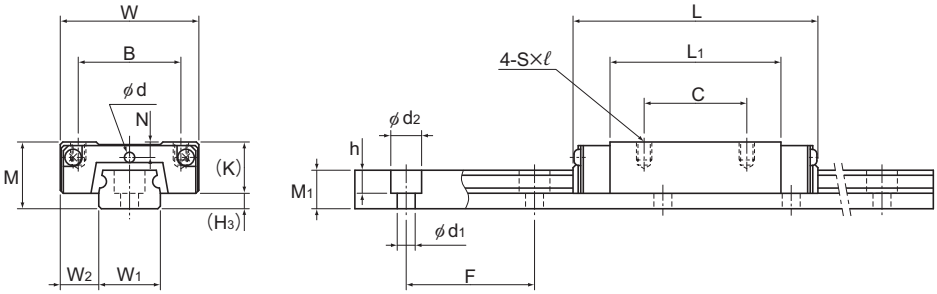
Models RSR-M1K, RSR-M1V, and RSR-M1N



Models RSR9M1K/9M1N and RSR12M1V/M1N

Model No.	Outer dimensions			LM block dimensions										H_3
	Height M	Width W	Length L	B	C	S×ℓ	L_1	T	K	N	E	Lubrication hole d	Grease nipple	
RSR 9M1K RSR 9M1N	10	20	30.8 41	15	10 16	M3×3	19.8 29.8	—	7.8	—	—	—	—	2.2
RSR 12M1V RSR 12M1N	13	27	35 47.7	20	15 20	M3×3.5	20.6 33.3	—	10	3	—	2	—	3
RSR 15M1V RSR 15M1N	16	32	43 61	25	20 25	M3×4	25.7 43.5	—	12	3.5	3.6 3.7	—	PB107	4
RSR 20M1V RSR 20M1N	25	46	66.5 86.3	38	38	M4×6	45.2 65	5.7	17.5	5	6.4	—	A-M6F	7.5

Model number coding

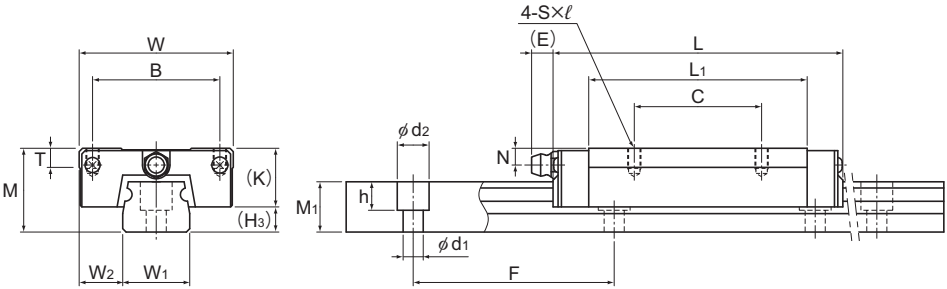
2 RSR15 M1 V UU C1 +230L P T -Ⅱ

- 2: No. of LM blocks used on the same rail (*1)
- RSR15: Model number
- M1: Symbol for high temperature type LM Guide
- V: Type of LM block
- UU: Contamination protection accessory symbol (*2)
- C1: Radial clearance symbol (*3) Normal (No symbol) Light preload (C1)
- +230L: LM rail length (in mm)
- P: Accuracy symbol (*4) Normal grade (No Symbol)/High accuracy grade (H) Precision grade (P)
- T: Symbol for LM rail jointed use
- -Ⅱ: Symbol for No. of rails used on the same plane (*5)

(*1) No symbol for 1 LM block. (*2) See contamination protection accessories on A1-543.
(*3) See A1-74. (*4) See A1-85. (*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.)

Download data by searching for the corresponding model number on the Technical Support site. https://tech.thk.com



Models RSR15 and 20M1V/M1N

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
	9 $^{0}_{-0.02}$	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 $^{0}_{-0.025}$	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 $^{0}_{-0.025}$	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 $^{0}_{-0.03}$	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

Note1) The maximum length under "Length*" indicates the standard maximum length of an LM rail. (See A1-394.)
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).
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 Table 7 on A1-61 to calculate the load rating for loads in the reverse radial direction or lateral direction.

Options⇒A1-503