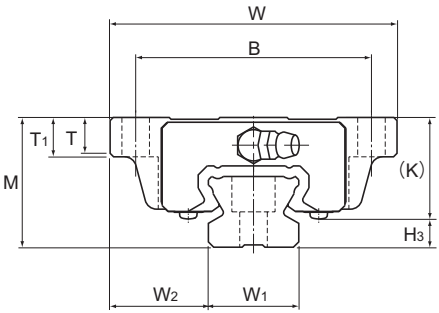
Models SR-TB, SR-TBM, SR-SB and SR-SBM



Model No.	Outer dimensions			LM block dimensions										
	Height	Width	Length									Grease nipple		
	M	W	L	B	C	H	L_1	T	T_1	K	N	E		H_3
SR 15SB/SBM SR 15TB/TBM	24	52	40.4 57	41	— 26	4.5	22.9 39.5	6.1	7	18.2	6	5.5	PB1021B	5.8
SR 20SB/SBM SR 20TB/TBM	28	59	47.3 66.2	49	— 32	5.5	27.8 46.7	8	9	22	6	12	B-M6F	6
SR 25SB/SBM SR 25TB/TBM	33	73	59.2 83	60	— 35	7	35.2 59	9.1	10	26	7	12	B-M6F	7
SR 30SB/SBM SR 30TB/TBM	42	90	67.9 96.8	72	— 40	9	40.4 69.3	8.7	10	32.5	8	12	B-M6F	9.5
SR 35SB/SBM SR 35TB/TBM	48	100	77.6 111	82	— 50	9	45.7 79	11.2	13	36.5	8.5	12	B-M6F	11.5
SR 45TB	60	120	126	100	60	11	90.5	12.8	15	47.5	11.5	16	B-PT1/8	12.5
SR 55TB	68	140	156	116	75	14	117	15.3	17	54.5	12	16	B-PT1/8	13.5

Note) Symbol M indicates that stainless steel is used in the LM block, LM rail and balls. Those models marked with this symbol are therefore highly resistant to corrosion and environment.

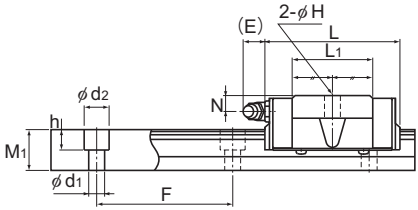
Model number coding

SR25 TB 2 UU C1 +1200L Y H T -II

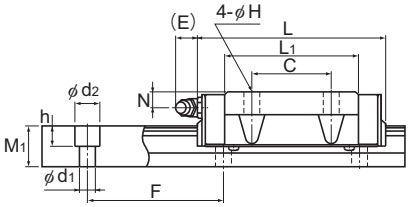
- SR25: Model number
- TB: Type of LM block
- 2: No. of LM blocks used on the same rail
- UU: Contamination protection accessory symbol (*1)
- C1: Radial clearance symbol (*2) — Normal (No symbol), Light preload (C1), Medium preload (C0)
- +1200L: LM rail length (in mm)
- Y: Applied to only 15 and 25
- H: Accuracy symbol (*3) — Normal grade (No Symbol)/High accuracy grade (H), Precision grade (P)/Super precision grade (SP), Ultra precision grade (UP)
- T: Symbol for LM rail jointed use
- -II: Symbol for No. of rails used on the same plane (*4)

(*1) See contamination protection accessory on A1-510. (*2) See A1-71. (*3) See A1-77. (*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.)



Model SR-SB



Model SR-TB

Unit: mm

	LM rail dimensions						Basic load rating		Static permissible moment kN-m*						Mass	
	Width		Height	Pitch		Length*	C	C_0	M_A		M_B		M_C		LM block	LM rail
	W_1 ±0.05	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
	15	18.5	12.5	60	3.5×6×4.5	(1240) 2500	5.39 9.51	11.1 19.3	0.0326 0.0925	0.224 0.516	0.0203 0.0567	0.143 0.321	0.0654 0.113		0.15 0.2	1.2
	20	19.5	15.5	60	6×9.5×8.5	(1480) 3000	7.16 12.5	14.4 25.2	0.053 0.146	0.332 0.778	0.0329 0.0896	0.21 0.481	0.11 0.194		0.3 0.4	2.1
	23	25	18	60	7×11×9	(2020) 3000	11.7 20.3	22.5 39.5	0.103 0.286	0.649 1.52	0.0642 0.175	0.41 0.942	0.201 0.355		0.4 0.6	2.7
	28	31	23	80	7×11×9	(2520) 3000	17.2 30	32.5 56.8	0.163 0.494	1.08 2.55	0.102 0.303	0.692 1.57	0.352 0.611		0.8 1.1	4.3
	34	33	27.5	80	9×14×12	(2520) 3000	23.8 41.7	44.1 77.2	0.259 0.74	1.68 4.01	0.161 0.454	1.07 2.49	0.576 1.01		1 1.5	6.4
	45	37.5	35.5	105	11×17.5×14	3000	55.3	101	1.1	5.96	0.679	3.69	1.77		2.5	11.3
	48	46	38	120	14×20×17	3000	89.1	157	2.27	11.3	1.39	6.98	2.87		4.2	12.8

Note1) The maximum length under "Length*" indicates the standard maximum length of an LM rail. (See A**1-218**.)
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

Note2) For models SR15 and 25, two types of rails with different mounting hole dimensions are offered (see Table1). When, replacing this model with model SSR, pay attention to the mounting hole dimension of the LM rail. Contact THK for details.

Table1 The dimension of the rail mounting hole

Model No.	Standard rail	Semi-Standard rail
SR 15	For M3 (No symbol)	For M4 (Symbol Y)
SR 25	For M6 (Symbol Y)	For M5 (No symbol)

Options⇒A1-473