Radial Type LM Guide Model SR End plate Grease nipple End seal LM rail Retainer plate Side seal (optional) Cross Section

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Structure and Features

Balls roll in four rows of raceways precision-ground on an LM rail and an LM block, and endplates incorporated in the LM block allow the balls to circulate. Since a retainer plate holds the balls, they will not fall off even if the LM block is removed from the LM rail. The low height of the LM block makes it highly rigid, achieving stable, high-precision linear motion.

Compact with Large Load Capacity

Since it is a compactly designed model that has a low cross-sectional height and a ball contact structure that is suited to large loads in the radial direction, this model is optimal for horizontal guide units.

Mounting Accuracy can Easily be Achieved

Since this self-adjusting model is capable of easily absorbing accuracy error in parallelism and level between two rails, it achieves highly accurate and smooth motion.

Low Noise

The end plate installed at each end of the LM block is designed to ensure the smooth and quiet circulation of balls at the turning areas.

High Durability

Balls do not undergo differential slip even under a preload or excessive biased load. Due to the product's high wear resistance, it maintains long-term accuracy.

Stainless Steel Type also Available

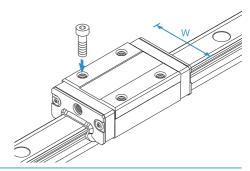
A special type whose LM block, LM rail, and balls are made of stainless steel is also available.

Types and Features

Models SR-W/T

With this type, the LM block has a smaller width (W) and tapped holes.

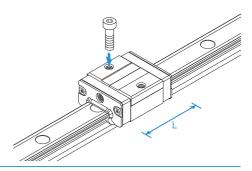
Dimensional Table⇒**△1-216**



Model SR-V

This is a space-saving type whose LM block has the same cross-sectional shape as the Model SR-W, but it has a smaller overall LM block length (L).

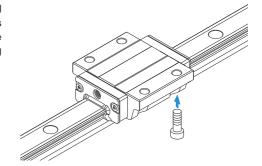
Dimensional Table⇒A1-216



Model SR-TB

The LM block has the same height as the Model SR-W, and the flange of the LM block has through holes. It is used in places where the table cannot have through holes for mounting bolts.

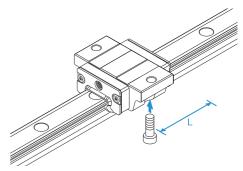
Dimensional Table⇒A1-218



Model SR-SB

This is a space-saving type whose LM block has the same cross-sectional shape as model SR-TB, but has a smaller overall LM block length (L).

Dimensional Table⇒A1-218

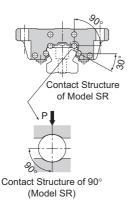


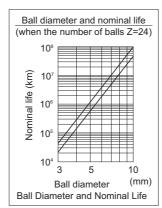
Characteristics of Model SR

When compared to models with a contact angle of 45°, model SR demonstrates the following excellent characteristics. By taking advantage of these characteristics, you will be able to design and manufacture highly accurate and highly rigid machines or equipment.

Difference in Load Rating and Service Life

Since SR has a contact angle of 90°, its rated load and service life are different from models with a contact angle of 45°. When comparing model SR with a model that has a contact angle of 45° and when the same radial load is applied to the two models with the same ball diameter as shown in the figure below, the load applied to SR is 70% of the other model. As a result, the service life of SR is more than twice that of the other model.





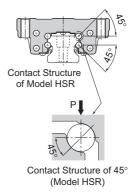
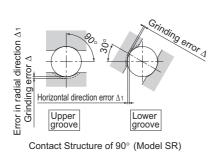


Fig. 1

Difference in Accuracy

If a machining error (grinding error) occurs in the LM rail or LM block, it will affect the running accuracy. Assuming that there is a machining error of Δ on the raceway, the error in the radial direction is 1.4 times greater in a model with a contact angle of 45° (model HSR) than in a model with a contact angle of 90° (model SR). For the horizontal direction, the error in a model with a contact angle of 45° is 1.22 times greater than that of a model with a contact angle of 30°.



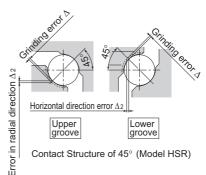


Fig. 2: Machining Error and Accuracy

Difference in Rigidity

The 90° contact angle adopted by Model SR is also different from the 45° contact angle in terms of rigidity. Accordingly, Model SR is better suited to applications that require high rigidity in the radial direction. The figure below shows the difference in radial load and displacement.

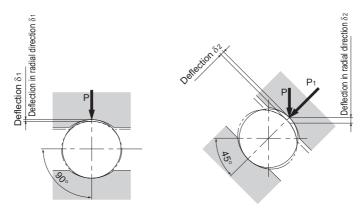


Fig. 3: Deflection Under a Radial Load

Load and deflection when contact angles are not the same (Da = 6.35 mm)

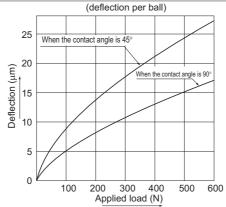


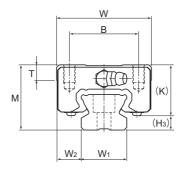
Fig. 4: Radial Load and Deflection

Conclusion

The 90° contact structure of the Model SR makes it ideal for locations where the load applied is mostly radial, locations where radial rigidity is required, and locations where accurate motion is demanded in the vertical and horizontal directions.

However, if the reverse-radial load, the lateral load, or the moment is large, we recommend Model HSR, which has a contact angle of 45° (4-way equal load).

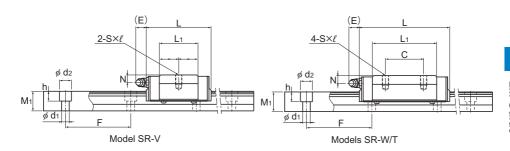
Models SR-W, SR-WM, SR-V, SR-VM, and SR-T



	Oute	r dimen	sions		LM block dimensions								
Model No.	Height M	Width	Length L	В	С	S×ℓ	L ₁	Т	К	N	E	Grease nipple	H ₃
SR 15V/VM SR 15W/WM	24	34	40.4 57	26	 26	M4×7	22.9 39.5	5.7	18.2	6	5.5	PB1021B	5.8
SR 20V/VM SR 20W/WM	28	42	47.3 66.2	32	— 32	M5×8	27.8 46.7	7.2	22	6	12	B-M6F	6
SR 25V/VM SR 25W/WM	33	48	59.2 83	35	— 35	M6×9	35.2 59	7.7	26	7	12	B-M6F	7
SR 30V/VM SR 30W/WM	42	60	67.9 96.8	40	 40	M8×12	40.4 69.3	8.5	32.5	8	12	B-M6F	9.5
SR 35V/VM SR 35W/WM	48	70	77.6 111	50	— 50	M8×12	45.7 79	12.5	36.5	8.5	12	B-M6F	11.5
SR 45W	60	86	126	60	60	M10×15	90.5	15	47.5	11.5	16	B-PT1/8	12.5
SR 55W	68	100	156	75	75	M12×20	117	16.7	54.5	12	16	B-PT1/8	13.5
SR 70T	85	126	194.6	90	90	M16×25	147.6	24.5	70	12	16	B-PT1/8	15
SR 85T	110	156	180	100	80	M18×30	130	25.5	91.5	27	12	A-PT1/8	18.5
SR 100T	120	178	200	120	100	M20×35	150	29.5	101	32	12	A-PT1/8	19
SR 120T	110	205	235	160	120	M20×35	180	24	95	14	13.5	B-PT1/4	15
SR 150T	135	250	280	200	160	M20×35	215	24	113	17	13.5	B-PT1/4	22

Model number coding +1240L **SR25** W UU C0 M Contamination Model Stainless steel LM rail length Type of Stainless steel protection Symbol for LM block LM rail (in mm) number LM block accessory No. of rails used Symbol for LM rail on the same plane symbol Applied to only No. of LM blocks Radial clearance symbol 15 and 25 jointed use Normal (No symbol) used on the same Light preload (C1) Accuracy symbol Normal grade (No Symbol)/High accuracy grade (H) Medium preload (C0) Precision grade (P)/Super precision grade (SP) Ultra precision grade (UP) 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.) See M1-545 for contamination protection accessories, see M1-74 for radial clearance symbol. See M1-79 for accuracy

symbol. See A1-13 for symbol for number of rails used on the same plane.



Unit: mm

	LM rail dimensions							Basic load rating Static permissible moment kN·m					Mass	
Width		Height	Pitch		Length*	С	C ₀	2	1.			M°	LM block	LM rail
W₁ ±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	9.5	12.5	60	3.5×6×4.5	(1240) 3000	9.1 13.8	11.7 20.5	0.0344 0.0984	0.234 0.551	0.0215 0.0604	0.149 0.343		0.12 0.2	1.2
20	11	15.5	60	6×9.5×8.5	(1480) 3000	13.4 19.2			0.396 0.887			0.135 0.224	0.2 0.3	2.1
23	12.5	18	60	7×11×9	(2020) 3000	21.6 30.9		-	0.773 1.74	0.0774 0.2	0.488 1.08	0.245 0.408	0.3 0.4	2.7
28	16	23	80	7×11×9	(2520) 3000	29.5 45.6		0.173 0.564	1.15 2.92	0.108 0.346	0.735 1.8	0.376 0.703	0.5 0.8	4.3
34	18	27.5	80	9×14×12	(2520) 3000	40.9 60.4		0.275 0.785	1.79 4.27	0.171 0.482	1.14 2.65	0.615 1.08	0.8 1.2	6.4
45	20.5	35.5	105	11×17.5×14	3000	80.4	107	1.17	6.34	0.721	3.94	1.89	2.2	11.3
48	26	38	120	14×20×17	3000	136	179	2.61	13	1.6	8.05	3.33	3.6	12.8
70	28	47	150	18×26×22	3000	226	282	5.03	25.7	3.09	15.9	7.47	7	22.8
85	35.5	65.5	180	18×26×22	3000	120	224	2.54	15.1	1.25	7.47	5.74	10.1	34.9
100	39	70.3	210	22×32×25	3000	148	283	3.95	20.9	1.95	10.3	8.55	14.1	46.4
114	45.5	65	230	26×39×30	3000	279	377	5.83	32.9	2.87	16.2	13.7		_
144	53	77	250	33×48×36	3000	411	537	9.98	55.8	4.92	27.5	24.3	_	_

Note1) The maximum length under "Length*" indicates the standard maximum length of an LM rail. (See **A1-220**.)

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 or SS. If other contamination protection accessories or lubricant equipment are installed, the total block length will increase.

(See A1-519 or A1-541)

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.

Models SR85T, 100T, 120T and 150T are build to order.

Models SR85T and 100T include a grease nipple on the side face of the LM block. Contact THK for details. Note2) For models SR15 and 25, two types of rails with different mounting hole dimensions are offered (see Table 1).

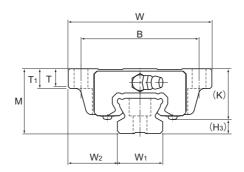
When replacing this model with model SSR, pay attention to the mounting hole dimension of the LM rail. Contact THK for details.

Note3) The basic load rating in the dimension table is for a load in the radial direction. Use Table 7 on **\(\text{\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exititt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\texititt{\$\text{\$\texi{\$\text{\$\texitex{\$\text{\$\text{\$\text{\$\texititt{\$\text{\$\tex**

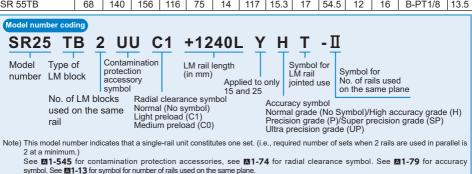
Table 1: Rail Mounting Hole Dimensions

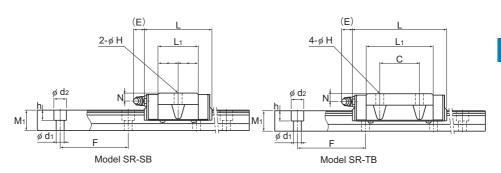
Model No.	Standard rail	Semi-standard rail			
SR 15	For M3 (no symbol)	For M4 (symbol Y)			
SR 25	For M6 (symbol Y)	For M5 (no symbol)			

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



	Oute	dimer	nsions		LM block dimensions									LM block dimensions				
Model No.	Height M	Width	Length L	В	С	Н	L ₁	Т	T ₁	К	N	E	Grease nipple	Н₃				
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				





Unit: mm

LM rail dimensions							LM rail dimensions Basic load rating Static permissible moment kN·m*						Mass	
Width		Height	Pitch		Length*	С	C ₀	6	•	2	l _s	M _°	LM block	LM rail
W₁ ±0.05	W ₂	M ₁	F	$d_1 \times d_2 \times h$	Max	kN	kN	1 block	Double blocks				kg	kg/m
15	18.5	12.5	60	3.5×6×4.5	(1240) 3000	9.1 13.8	11.7 20.5						0.15 0.2	1.2
20	19.5	15.5	60	6×9.5×8.5	(1480) 3000								0.3 0.4	2.1
23	25	18	60	7×11×9	(2020) 3000				0.773 1.74	0.0774 0.2			0.4 0.6	2.7
28	31	23	80	7×11×9	(2520) 3000				-				0.8 1.1	4.3
34	33	27.5	80	9×14×12	(2520) 3000				-	-	1.14 2.65	0.615 1.08	1 1.5	6.4
45	37.5	35.5	105	11×17.5×14	3000	80.4	107	1.17	6.34	0.721	3.94	1.89	2.5	11.3
48	46	38	120	14×20×17	3000	136	179	2.61	13	1.6	8.05	3.33	4.2	12.8
	W ₁ ±0.05 15 20 23 28 34 45	W ₁ ±0.05 W ₂ 15 18.5 20 19.5 23 25 28 31 34 33 45 37.5	Width W ₂ Height W ₁ ±0.05 W ₂ M ₁ 15 18.5 12.5 20 19.5 15.5 23 25 18 28 31 23 34 33 27.5 45 37.5 35.5	Width W2 Height Pitch W1 ±0.05 W2 M1 F 15 18.5 12.5 60 20 19.5 15.5 60 23 25 18 60 28 31 23 80 34 33 27.5 80 45 37.5 35.5 105	Width Height Pitch W_1 ± 0.05 W_2 M_1 F $d_1 \times d_2 \times h$ 15 18.5 12.5 60 $3.5 \times 6 \times 4.5$ 20 19.5 15.5 60 $6 \times 9.5 \times 8.5$ 23 25 18 60 $7 \times 11 \times 9$ 28 31 23 80 $7 \times 11 \times 9$ 34 33 27.5 80 $9 \times 14 \times 12$ 45 37.5 35.5 105 $11 \times 17.5 \times 14$	Width W₂ M₁ F d₁×d₂×h Max 15 18.5 12.5 60 3.5×6×4.5 (1240) 3000 20 19.5 15.5 60 6×9.5×8.5 (1480) 3000 23 25 18 60 7×11×9 (2020) 3000 28 31 23 80 7×11×9 (2520) 3000 34 33 27.5 80 9×14×12 (2520) 3000 45 37.5 35.5 105 11×17.5×14 3000	Width Height Pitch Length* C W1 ± 0.05 W2 M1 F d1×d2×h Max kN 15 18.5 12.5 60 3.5×6×4.5 3000 13.8 13.4 3000 19.2 20 19.5 15.5 60 6×9.5×8.5 3000 19.2 13.4 3000 19.2 23 25 18 60 7×11×9 (2020) 21.6 3000 30.9 21.6 3000 45.6 28 31 23 80 7×11×9 (2520) 3000 45.6 3000 45.6 34 33 27.5 80 9×14×12 (2520) 40.9 3000 60.4 3000 60.4 45 37.5 35.5 105 11×17.5×14 3000 80.4	Width Height Pitch Length* C Co W1 ±0.05 W2 M1 F d1×d2×h Max kN kN 15 18.5 12.5 60 3.5×6×4.5 (1240) 3000 13.8 20.5 20.5 20 19.5 15.5 60 6×9.5×8.5 (1480) 3000 19.2 28.6 13.4 17.2 28.6 23 25 18 60 7×11×9 (2020) 3000 30.9 44.7 26.8 3000 45.6 64.4 28 31 23 80 7×11×9 (2520) 3000 45.6 64.4 64.4 64.4 34 33 27.5 80 9×14×12 (2520) 3000 60.4 81.8 60.4 81.8 45 37.5 35.5 105 11×17.5×14 3000 80.4 107	Width Height Pitch Length* C Co No. W1 ± 0.05 W2 M1 F d1×d2×h Max kN kN 1 1 block 15 18.5 12.5 60 3.5×6×4.5 (1240) (1240) (13.4) (17.2) (13.4) (17.2) (19.4) 11.7 0.0344 (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (19.4) (1	Width Height Pitch Length* C Co Max Length* C Length* C Co Max Length* C Co Max Length* C Length* Length*	Width $M_{\pm 0.05}$ M_{2} M_{1} M_{2} M_{3} M_{4} M_{5} M	Width $M_{\pm 0.05}$ M_{2} M_{1} M_{2} M_{3} M_{4} M_{5} M	Width $\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Width Height Pitch Length* C C₀ Image: Control of the property o

Note1) The maximum length under "Length*" indicates the standard maximum length of an LM rail. (See M1-220.) Static permissible moment* 1 block: the static permissible moment with one LM block

Total block length L

Double blocks: static permissible moment when two LM blocks are in close contact with each other: The total block length L shown in the table is the length with the dust proof parts, code UU or SS. If other contamination protection accessories or lubricant equipment are installed, the total block length will increase.

(See M1-519 or M1-541)
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.

Note2) For models SR15 and 25, two types of rails with different mounting hole dimensions are offered (see Table 1). When replacing this model with model SSR, pay attention to the mounting hole dimension of the LM rail. Contact THK for details.

Note3) The basic load rating in the dimension table is for a load in the radial direction. Use Table 7 on M1-61 to calculate the load rating for loads in the reverse radial direction or lateral direction.

Table 1: Rail Mounting Hole Dimensions

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)			

Standard Lengths and Maximum Lengths of LM Rails

Table 1 shows the standard lengths and the maximum lengths of model SR variations. If the maximum length of the desired LM rail exceeds these values, jointed rails will be used. Contact THK for details. For special rail lengths, it is recommended to use a value corresponding to the G and g dimensions from the table. As the G and g dimensions increase, this portion becomes less stable, and the accuracy performance is severely impacted.

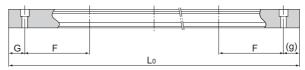


Table 1: Standard Lengths and Maximum Lengths of LM Rails for Model SR

Unit: mm

Model No.	SR 15	SR 20	SR 25	SR 30	SR 35	SR 45	SR 55	SR 70	SR 85	SR 100	SR 120	SR 150
	160	220	220	280	280	570	780	1270	1520	1550	1700	1600
	220	280	280	360	360	675	900	1570	2060	1970	2390	2100
	280	340	340	440	440	780	1020	2020	2600	2600		
	340	400	400	520	520	885	1140	2620				
	400	460	460	600	600	990	1260					
	460	520	520	680	680	1095	1380					
	520	580	580	760	760	1200	1500					
	580	640	640	840	840	1305	1740					
	640	700	700	920	920	1410	1860					
	700	760	760	1000	1000	1515	1980					
	760	820	820	1080	1080	1725	2100					
	820	940	940	1160	1160	1830	2220					
	940	1000	1000	1240	1240	1935	2340					
	1000	1060	1060	1320	1320	2040	2460					
	1060	1120	1120	1400	1400	2145	2580					
	1120	1180	1180	1480	1480	2250	2700					
	1180	1240	1240	1640	1640	2355	2820					
LM rail	1240	1300	1300	1720	1720	2460	2940					
standard lengths	1300	1360	1360	1800	1800	2565						
(L ₀)	1360	1420	1420	1880	1880	2670						
	1420	1480	1480	1960	1960	2775						
	1480	1540	1540	2040	2040	2880						
	1540	1600	1600	2120	2120	2985						
		1660	1660	2200	2200							
		1720	1720	2280	2280							
		1780	1780	2360	2360							
		1840	1840	2440	2440							
		1900	1900	2520	2520							
		1960	1960	2600	2600							
		2020	2020	2680	2680							
		2080	2080	2760	2760							
		2140	2140	2840	2840							
			2200	2920	2920							
			2260									
			2320									
			2380									
			2440									
Standard pitch F	60	60	60	80	80	105	120	150	180	210	230	250
G, g	20	20	20	20	20	22.5	30	35	40	40	45	50
Max length	3000 (1240)	3000 (1480)	3000 (2020)	3000 (2520)	3000 (2520)	3000	3000	3000	3000	3000	3000	3000

Note1) The maximum length varies with accuracy grades. Contact THK for details.

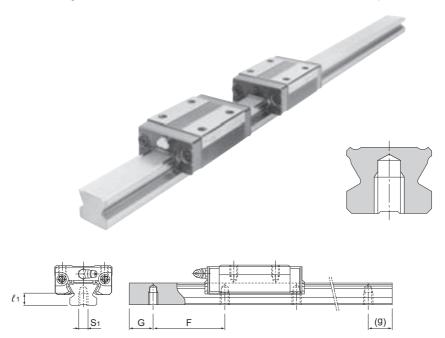
Note2) If jointed rails are not allowed and a greater length than the maximum values above is required, contact THK. Note3) Those model numbers including and greater than SR85T are semi-standard models. If desiring these models, contact

Note4) The figures in the parentheses indicate the maximum lengths of stainless steel made models.



Tapped-Hole Type LM Rail

Model SR rails also include a type where the LM rail is tapped from the bottom. This type is useful when mounting from the bottom of the base and when increased contamination protection is desired.



- (1) A tapped-hole LM rail is available only for Precision or lower grades.
- (2) For standard pitches of the taps and the G and g dimensions, see Table 1 on **A1-220**.

Table 2: Dimensions of the LM Rail Tap Unit: mm

Model No.	S ₁	Effective tap depth ℓ_1
SR 15	M5	7
SR 20	M6	9
SR 25	M6	10
SR 30	M8	14
SR 35	M8	16
SR 45	M12	20
SR 55	M14	22

Model number coding

SR30W2UU+1000LH



Symbol for tapped-hole LM rail type