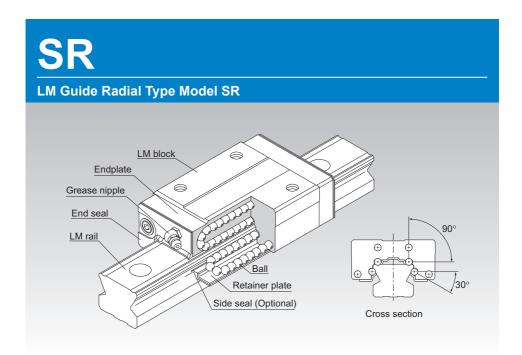
ALMOTION



| Point of Selection | A 1-10 |
|--|----------------|
| Point of Design | △ 1-454 |
| Options | A 1-477 |
| Model No. | A 1-543 |
| Precautions on Use | A 1-549 |
| Accessories for Lubrication | A24-1 |
| Mounting Procedure and Maintenance | ■ 1-89 |
| Equivalent moment factor | A 1-43 |
| Rated Loads in All Directions | △ 1-59 |
| Equivalent factor in each direction | A1-61 |
| Radial Clearance | A1-72 |
| Accuracy Standards | A1-77 |
| Shoulder Height of the Mounting Base and the Corner Radius | A1-463 |
| Permissible Error of the Mounting Surface | A1-470 |
| Dimensions of Each Model with an Option Attached | A 1-491 |
| · | |



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. With the low sectional height and the high rigidity design of the LM block, this model achieves highly accurate and stable straight motion.

[Compact, Heavy Load]

Since it is a compact designed model that has a low sectional height and a ball contact structure rigid in the radial direction, this model is optimal for horizontal guide units.

[Mounting accuracy can easily be achieved]

Since this model is a self-adjusting type capable of easily absorbing an accuracy error in parallelism and level between two rails, highly accurate and smooth motion can be achieved.

[Low Noise]

The endplate installed at each end of the LM block is designed to ensure the smooth and low-noise circulation of the balls at the turning areas.

[High Durability]

Even under a preload or excessive biased load, differential slip of balls is minimal. As a result, high wear resistance and long-term maintenance of accuracy are achieved.

[Stainless Steel Type also Available]

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

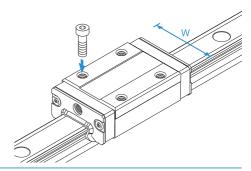


Types and Features

Model SR-W

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

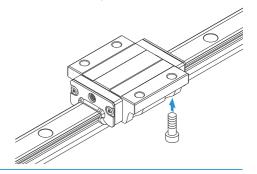
Specification Table⇒A1-216



Model SR-TB

The LM block has the same height as model SR-W and can be mounted from the bottom.

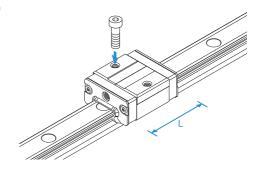
Specification Table⇒A1-218



Model SR-V

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

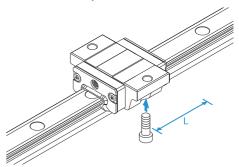
Specification Table⇒A1-216



Model SR-SB

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).

Specification Table⇒A1-218



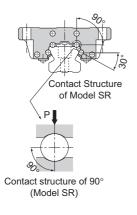


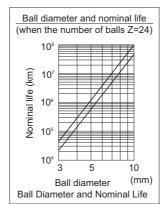
Characteristics of Model SR

When compared to models having a contact angle of 45°, model SR shows excellent characteristics as indicated below. Using these characteristics, you can design and manufacture highly accurate and highly rigid machines or equipment.

Difference in Rated Load and Service Life

Since SR has a contact angle of 90° , its rated load and service life are different from those 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.





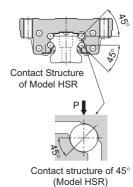
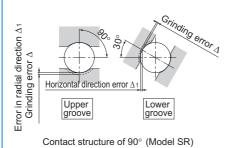


Fig.1

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, it results in an error in the radial direction, and the error with the contact angle of 45° (model HSR) is 1.4 times greater than that of the contact angle of 90° (model SR). As for the machining error resulting in horizontal direction error, the error with the contact angle of 45° is 1.22 times greater than the contact angle of 30° .



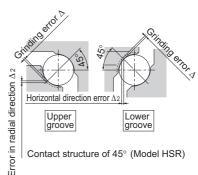


Fig.2 Machining Error and Accuracy



Difference in Rigidity

The 90° contact angle adopted by model SR has a difference with the 45° contact angle also in rigidity. When the same radial load "P" is applied, the displacement in the radial direction with model SR is only 56% of that with the contact angle of 45°. Accordingly, where high rigidity in the radial direction is required, model SR is more advantageous. The figure below shows the difference in radial load and displacement.

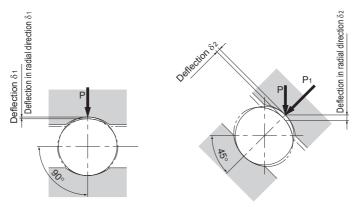


Fig.3 Deflection under a Radial Load

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

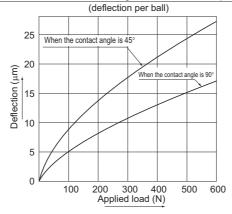


Fig.4 Radial Load and Deflection

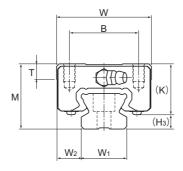
Conclusion

Model SR with this type of 90° contact construction are 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 up, down, left and right 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 and SR-VM



| | 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 | Н₃ | | |
| 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 | <u>-</u> | 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

SR25 W 2 UU C0 M +1240L Y P T M - ${ m II}$

Model Type of number LM block Contamination protection accessory symbol (*1) Stainless steel LM rail length (in mm) Applied to only

Stainless steel LM rail

Symbol for No. of rails used on the same plane (*4)

No. of LM blocks used on the same

Radial clearance symbol (*2) 15 and 25 Normal (No symbol) Light preload (C1) Ac Medium preload (C0) No

25 jointed use Accuracy symbol (*3)

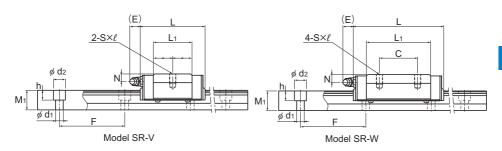
Normal grade (No Symbol)/High accuracy grade (H)
Precision grade (P)/Super precision grade (SP)

Ultra precision grade (UP)

(*1) See contamination protection accessory on A1-516. (*2) See A1-72. (*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.)





Unit: mm

| | | LM | rail din | nensions | | Basic loa | ad rating | Static permissible moment kN•m* | | | | | Mass | |
|-------------|-------|----------------|----------|----------------------------|----------------|--------------|----------------|---------------------------------|----------------|------------------|---------------|----------------|-------------|------------|
| Width | | Height | Pitch | | Length* | С | C _o | 2 | 1, | 2 | | M° (G | 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 | | 0.234 0.551 | 0.0215 0.0604 | | | 0.12 0.2 | 1.2 |
| 20 | 11 | 15.5 | 60 | 6×9.5×8.5 | (1480) 3000 | 13.4 19.2 | 17.2 28.6 | | 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 | | 0.125 0.326 | 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 | $11 \times 17.5 \times 14$ | 3000 | 80.4 | 107 | 1.17 | 6.34 | 0.721 | 3.94 | 1.89 | 2.2 | 11.3 |
| 48 | 26 | 38 | 120 | $14 \times 20 \times 17$ | 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

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 **△1-491** or **△1-512**)

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 Table1).

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

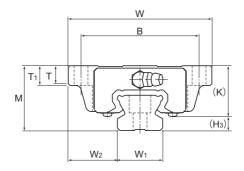
Note3) The basic load rating in the dimension table is for a load in the radial direction. Use Table7 on Mailto:All-59 to calculate the load rating for loads in the reverse radial direction or lateral direction.

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) | | | | |



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



| | Oute | dimer | nsions | | | | LM block dimensions | | | | | | | |
|----------------------------|-------------|-------|--------------|-----|----------|-----|---------------------|------|------------|------|------|-----|------------------|----------------|
| Model No. | Height M | Width | Length L | В | С | н | L ₁ | Т | T 1 | К | N | E | Grease nipple | 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 | <u>-</u> | 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 |

Model number coding

UU C1 +1200L

Model Type of number LM block

Contamination protection accessory symbol (*1)

LM rail length (in mm) Applied to only 15 and 25

Symbol for LM rail jointed use

Symbol for No. of rails used on the same plane (*4)

No. of LM blocks used on the same rail

Radial clearance symbol (*2) Normal (No symbol) Light preload (C1) Medium preload (C0)

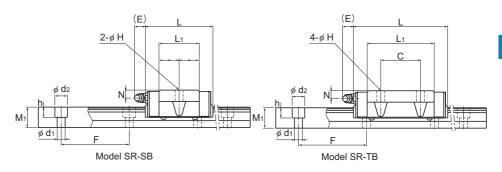
Accuracy symbol (*3)

Normal grade (No Symbol)/High accuracy grade (H) Precision grade (P)/Super precision grade (SP) Ultra precision grade (UP)

(*1) See contamination protection accessory on A1-516. (*2) See A1-72. (*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.)





Unit: mm

| | LM rail dimensions | | | | | | | Static | permis | sible m | oment l | κN•m* | Mass | |
|-------------|--------------------|----------------|-------|---------------------------|----------------|--------------|----------------|------------------|----------------|------------------|----------------|----------------|-------------|------------|
| Width | | Height | Pitch | | Length* | С | C ₀ | 2 | ^ N | 2 | | 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 | | kg | kg/m |
| 15 | 18.5 | 12.5 | 60 | 3.5×6×4.5 | (1240) 3000 | 9.1 13.8 | | 0.0344 0.0984 | 0.234 0.551 | 0.0215 0.0604 | 0.149 0.343 | | 0.15 0.2 | 1.2 |
| 20 | 19.5 | 15.5 | 60 | 6×9.5×8.5 | (1480) 3000 | 13.4 19.2 | | 0.064 0.167 | 0.396 0.887 | 0.0397 0.102 | | 0.135 0.224 | 0.3 0.4 | 2.1 |
| 23 | 25 | 18 | 60 | 7×11×9 | (2020) 3000 | 21.6 30.9 | | 0.125 0.326 | 0.773 1.74 | 0.0774 0.2 | | | 0.4 0.6 | 2.7 |
| 28 | 31 | 23 | 80 | 7×11×9 | (2520) 3000 | 29.5 45.6 | | 0.173 0.564 | | 0.108 0.346 | 0.735 1.8 | 0.376 0.703 | 0.8 1.1 | 4.3 |
| 34 | 33 | 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 | 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 |

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 M1-491 or M1-512)
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 Table1). 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 Table7 on M1-59 to calculate the load rating for loads in the reverse radial direction or lateral direction.

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) | | | | |



Standard Length and Maximum Length of the LM Rail

Table1 shows the standard lengths and the maximum lengths of model SR variations. If the maximum length of the desired LM rail exceeds them, jointed rails will be used. Contact THK for details. For special rail lengths, it is recommended to use a value corresponding to the G,g dimension from the table. As the G,g dimension increases, this portion becomes less stable, and the accuracy performance is severely impacted.

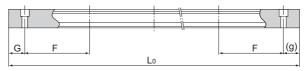


Table1 Standard Length and Maximum Length of the LM Rail for Model SR

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 | |
|-------------------|--------|--------|--------|--------|--------|-------|-------|-------|-------|--------|--------|------|
| | 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 length | 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 | | | | | | | | | |
| 01 | - 00 | - 00 | 2440 | | 00 | 405 | 400 | 450 | 400 | 040 | 000 | 050 |
| 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 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
| | (1240) | (1480) | (2020) | (2520) | (2520) | | | | | | | |

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.

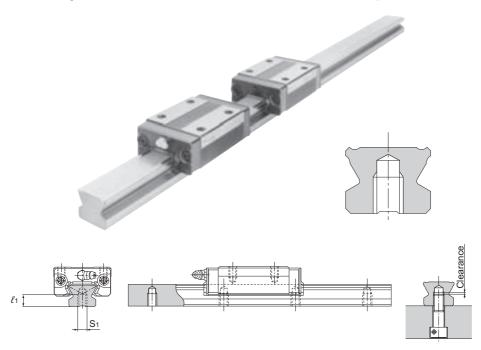
Note3) Those model numbers including and greater than SR85T are semi-standard models. If desiring these models, contact THK.

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



Tapped-hole LM Rail Type of Model SR

SR model 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 type is available only for high accuracy or lower grades.
- (2) Determine the bolt length so that a clearance of 2 to 5 mm is secured between the bolt end and the bottom of the tap (effective tap depth). (See figure above.)
- (3) For standard pitches of the taps, see Table1 on M1-220.

Table2 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

 1-221

SR30 W2UU +1000LH

Symbol for tapped-hole LM rail type