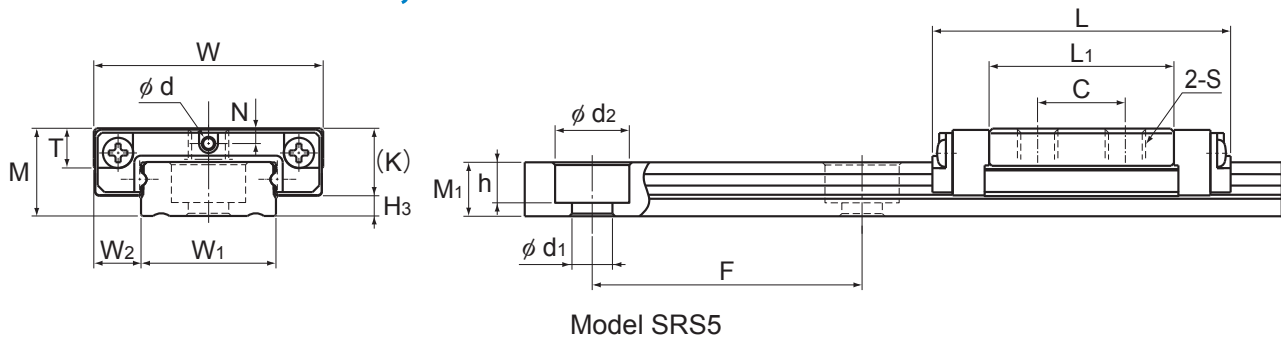


## Models SRS-WS, SRS-WM and SRS-WN



Model SRS5

Model No.	Outer dimensions			LM block dimensions								Greasing hole d	H <sub>3</sub>
	Height	Width	Length	B	C	S × ℓ	L <sub>1</sub>	T	K	N			
	M	W	L										
SRS 5WM SRS 5WGM	6.5	17	22.1	—	6.5	M3 through	13.7	2.7	5	1.1	0.8	1.5	
SRS 5WN SRS 5WGN	6.5	17	28.1	—	11	M3 through	19.7	2.7	5	1.1	0.8	1.5	
SRS 7WS SRS 7WGS	9	25	22.5	19	—	M3 × 2.8	11.9	3.8	7.2	1.8	1.2	1.8	
SRS 7WM SRS 7WGM	9	25	31	19	10	M3 × 2.8	20.4	3.8	7.2	1.8	1.2	1.8	
SRS 7WN SRS 7WGN	9	25	40.9	19	17	M3 × 2.8	30.3	3.8	7.2	1.8	1.2	1.8	
SRS 9WS SRS 9WGS	12	30	26.5	21	—	M3 × 2.8	14.5	4.9	9.1	2.3	1.6	2.9	
SRS 9WM SRS 9WGM	12	30	39	21	12	M3 × 2.8	27	4.9	9.1	2.3	1.6	2.9	
SRS 9WN SRS 9WGN	12	30	50.7	23	24	M3 × 2.8	38.7	4.9	9.1	2.3	1.6	2.9	
SRS 12WS SRS 12WGS	14	40	30.5	28	—	M3 × 3.5	16.9	5.7	11	3	2	3	
SRS 12WM SRS 12WGM	14	40	44.5	28	15	M3 × 3.5	30.9	5.7	11	3	2	3	
SRS 12WN SRS 12WGN	14	40	59.5	28	28	M3 × 3.5	45.9	5.7	11	3	2	3	

Note) Since stainless steel is used in the LM block, LM rail and balls, these models are highly resistant to corrosion and environment.  
The SRS-G is equipped with uncaged, full-complement bearings.  
Using a greasing hole other than for greasing may cause damage.

### Model number coding

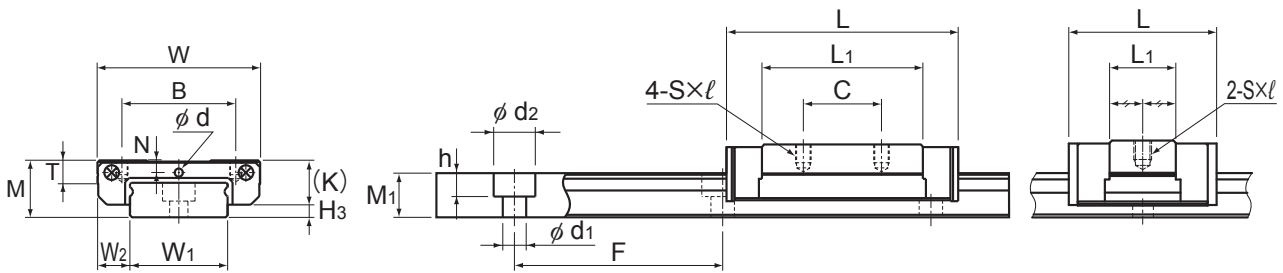
**2 SRS12WM QZ UU C1 +470L P M - II**

2: No. of LM blocks used on the same rail  
 SRS12WM: Model No.  
 QZ: With QZ Lubricator  
 UU: Contamination protection accessory symbol (\*1)  
 C1: Radial clearance symbol (\*2)  
 +470L: LM rail length (in mm)  
 P: Accuracy symbol (\*3)  
 M: Stainless steel LM rail  
 - II: Symbol for No. of rails used on the same plane (\*4)

Normal (No symbol)/  
 Light preload (C1)  
 Normal grade (No Symbol)/High accuracy grade (H)  
 Precision grade (P)

(\*1) See contamination protection accessory on **A1-496**. (\*2) See **A1-70**. (\*3) See **A1-82**. (\*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.)  
Those models equipped with QZ Lubricator cannot have a grease nipple. When desiring a grease nipple for a model attached with QZ, contact THK.



Models SRS7WM/WN,9WM/WN,12WM/WN

Models SRS7 to 12WS  
Unit: mm

	LM rail dimensions							Basic load rating		Static permissible moment N-m*					Mass	
	Width			Height	Pitch		Length*	C	C <sub>0</sub>	M <sub>A</sub>		M <sub>B</sub>		M <sub>C</sub>	LM block	LM rail
	W <sub>1</sub>	W <sub>2</sub>	W <sub>3</sub>	M <sub>1</sub>	F	d <sub>1</sub> × d <sub>2</sub> × h	Max	kN	kN	1 block	Double blocks	1 block	Double blocks	1 block	kg	kg/m
10	$\begin{matrix} 0 \\ -0.02 \end{matrix}$	3.5	—	4	20	3 × 5.5 × 3	220	$\begin{matrix} 0.584 \\ 0.498 \end{matrix}$	$\begin{matrix} 0.703 \\ 0.82 \end{matrix}$	$\begin{matrix} 1.57 \\ 1.79 \end{matrix}$	$\begin{matrix} 9.59 \\ 11.1 \end{matrix}$	$\begin{matrix} 1.83 \\ 2.15 \end{matrix}$	$\begin{matrix} 11.24 \\ 13.3 \end{matrix}$	$\begin{matrix} 3.58 \\ 4.18 \end{matrix}$	0.005	0.27
10	$\begin{matrix} 0 \\ -0.02 \end{matrix}$	3.5	—	4	20	3 × 5.5 × 3	220	$\begin{matrix} 0.746 \\ 0.64 \end{matrix}$	$\begin{matrix} 0.996 \\ 1.17 \end{matrix}$	$\begin{matrix} 3.01 \\ 3.54 \end{matrix}$	$\begin{matrix} 16.8 \\ 19.6 \end{matrix}$	$\begin{matrix} 3.53 \\ 4.15 \end{matrix}$	$\begin{matrix} 19.7 \\ 23 \end{matrix}$	$\begin{matrix} 5.08 \\ 5.97 \end{matrix}$	0.007	0.27
14	$\begin{matrix} 0 \\ -0.02 \end{matrix}$	5.5	—	5.2	30	3.5 × 6 × 3.2	480	$\begin{matrix} 1.38 \\ 1.06 \end{matrix}$	$\begin{matrix} 1.35 \\ 1.35 \end{matrix}$	$\begin{matrix} 2.89 \\ 2.58 \end{matrix}$	$\begin{matrix} 19.6 \\ 20.0 \end{matrix}$	$\begin{matrix} 3.32 \\ 2.96 \end{matrix}$	$\begin{matrix} 22.7 \\ 23.1 \end{matrix}$	$\begin{matrix} 9.95 \\ 9.95 \end{matrix}$	0.011	0.56
14	$\begin{matrix} 0 \\ -0.02 \end{matrix}$	5.5	—	5.2	30	3.5 × 6 × 3.2	480	$\begin{matrix} 2.01 \\ 1.63 \end{matrix}$	$\begin{matrix} 1.94 \\ 2.51 \end{matrix}$	$\begin{matrix} 6.47 \\ 8.87 \end{matrix}$	$\begin{matrix} 36.4 \\ 51.5 \end{matrix}$	$\begin{matrix} 7.71 \\ 10.2 \end{matrix}$	$\begin{matrix} 42.3 \\ 59.5 \end{matrix}$	$\begin{matrix} 14.33 \\ 20.3 \end{matrix}$	0.018	0.56
14	$\begin{matrix} 0 \\ -0.02 \end{matrix}$	5.5	—	5.2	30	3.5 × 6 × 3.2	480	$\begin{matrix} 2.56 \\ 2.12 \end{matrix}$	$\begin{matrix} 3.28 \\ 3.66 \end{matrix}$	$\begin{matrix} 15.0 \\ 16.6 \end{matrix}$	$\begin{matrix} 78.9 \\ 87.7 \end{matrix}$	$\begin{matrix} 17.4 \\ 19.2 \end{matrix}$	$\begin{matrix} 91.2 \\ 101 \end{matrix}$	$\begin{matrix} 24.2 \\ 27 \end{matrix}$	0.026	0.56
18	$\begin{matrix} 0 \\ -0.02 \end{matrix}$	6	—	7.5	30	3.5 × 6 × 4.5	1430	$\begin{matrix} 2.03 \\ 1.73 \end{matrix}$	$\begin{matrix} 1.84 \\ 2.14 \end{matrix}$	$\begin{matrix} 4.49 \\ 5.15 \end{matrix}$	$\begin{matrix} 32.1 \\ 36.9 \end{matrix}$	$\begin{matrix} 5.15 \\ 5.92 \end{matrix}$	$\begin{matrix} 38.9 \\ 42.6 \end{matrix}$	$\begin{matrix} 17.4 \\ 20.2 \end{matrix}$	0.018	1.01
18	$\begin{matrix} 0 \\ -0.02 \end{matrix}$	6	—	7.5	30	3.5 × 6 × 4.5	1430	$\begin{matrix} 3.29 \\ 2.67 \end{matrix}$	$\begin{matrix} 3.34 \\ 3.35 \end{matrix}$	$\begin{matrix} 14.0 \\ 13.9 \end{matrix}$	$\begin{matrix} 78.6 \\ 69.7 \end{matrix}$	$\begin{matrix} 16.2 \\ 16.6 \end{matrix}$	$\begin{matrix} 91.0 \\ 96.7 \end{matrix}$	$\begin{matrix} 31.5 \\ 31.7 \end{matrix}$	0.031	1.01
18	$\begin{matrix} 0 \\ -0.02 \end{matrix}$	6	—	7.5	30	3.5 × 6 × 4.5	1430	$\begin{matrix} 4.20 \\ 3.48 \end{matrix}$	$\begin{matrix} 4.37 \\ 5.81 \end{matrix}$	$\begin{matrix} 25.1 \\ 33.2 \end{matrix}$	$\begin{matrix} 130 \\ 172 \end{matrix}$	$\begin{matrix} 29.1 \\ 40 \end{matrix}$	$\begin{matrix} 151 \\ 208 \end{matrix}$	$\begin{matrix} 41.3 \\ 54.9 \end{matrix}$	0.049	1.01
24	$\begin{matrix} 0 \\ -0.02 \end{matrix}$	8	—	8.5	40	4.5 × 8 × 4.5	2000	$\begin{matrix} 3.58 \\ 3.05 \end{matrix}$	$\begin{matrix} 3.15 \\ 3.68 \end{matrix}$	$\begin{matrix} 9.77 \\ 11.1 \end{matrix}$	$\begin{matrix} 63 \\ 72.6 \end{matrix}$	$\begin{matrix} 9.77 \\ 11.1 \end{matrix}$	$\begin{matrix} 63 \\ 72.6 \end{matrix}$	$\begin{matrix} 39.5 \\ 46.2 \end{matrix}$	0.034	1.52
24	$\begin{matrix} 0 \\ -0.02 \end{matrix}$	8	—	8.5	40	4.5 × 8 × 4.5	2000	$\begin{matrix} 5.48 \\ 4.46 \end{matrix}$	$\begin{matrix} 5.3 \\ 5.32 \end{matrix}$	$\begin{matrix} 26.4 \\ 25.7 \end{matrix}$	$\begin{matrix} 143 \\ 146 \end{matrix}$	$\begin{matrix} 26.4 \\ 25.7 \end{matrix}$	$\begin{matrix} 143 \\ 146 \end{matrix}$	$\begin{matrix} 66.5 \\ 66.8 \end{matrix}$	0.055	1.52
24	$\begin{matrix} 0 \\ -0.02 \end{matrix}$	8	—	8.5	40	4.5 × 8 × 4.5	2000	$\begin{matrix} 7.13 \\ 5.93 \end{matrix}$	$\begin{matrix} 7.07 \\ 9.46 \end{matrix}$	$\begin{matrix} 49.2 \\ 64.7 \end{matrix}$	$\begin{matrix} 249 \\ 332 \end{matrix}$	$\begin{matrix} 49.2 \\ 64.7 \end{matrix}$	$\begin{matrix} 249 \\ 332 \end{matrix}$	$\begin{matrix} 88.7 \\ 119 \end{matrix}$	0.091	1.52

Note1) The maximum length under "Length \* " indicates the standard maximum length of an LM rail. (See **A1-160**.)

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 **A1-472** or **A1-492**)

For the SRS5WM and SRS5WN, the balls will fall out of the block if it is removed from the rail.

Note2) The basic load rating in the dimension table is for a load in the radial direction. Use Table7 on **A1-58** to calculate the load rating for loads in the reverse radial direction or lateral direction.

- Reference bolt tightening torque when mounting an LM block for model SRS 5 and 7W are shown in the table below.

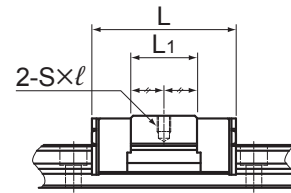
Reference tightening torque

Model No.	Model No. of screw	Screw depth (mm)	Reference tightening torque(N-m)*
SRS 5W	M3	2.3	0.4
SRS 7W	M3	2.8	0.4

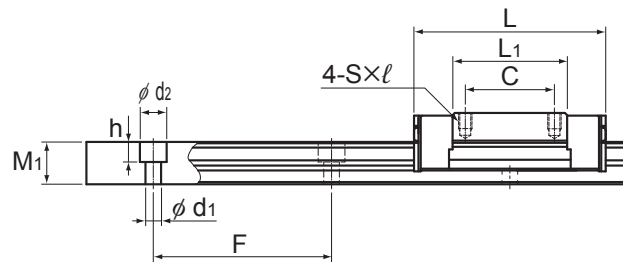
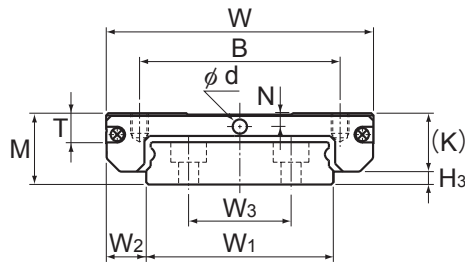
\*Tightening above the tightening torque affects accuracy.

Be sure to tighten at or below the defined tightening torque.

## Models SRS-WS, SRS-WM and SRS-WN



Model SRS15WS



Model SRS15WM/WN

Model No.	Outer dimensions			LM block dimensions										H <sub>3</sub>
	Height	Width	Length	B	C	S × l	L <sub>1</sub>	T	K	N	E	Greasing hole	Grease nipple	
	M	W	L									d		
SRS 15WS SRS 15WGS	16	60	41.5	45	—	M4 × 4.5	24.9	6.5	13.3	3	— 4	3 —	— PB107	2.7
SRS 15WM SRS 15WGM	16	60	55.5	45	20	M4 × 4.5	38.9	6.5	13.3	3	— 4	3 —	— PB107	2.7
SRS 15WN SRS 15WGN	16	60	74.5	45	35	M4 × 4.5	57.9	6.5	13.3	3	— 4	3 —	— PB107	2.7

Note) Since stainless steel is used in the LM block, LM rail and balls, these models are highly resistant to corrosion and environment. The SRS-G is equipped with uncaged, full-complement bearings. For the SRS15WS/WM/WN, if a grease nipple is required, please specify upon ordering. Using a greasing hole other than for greasing may cause damage.

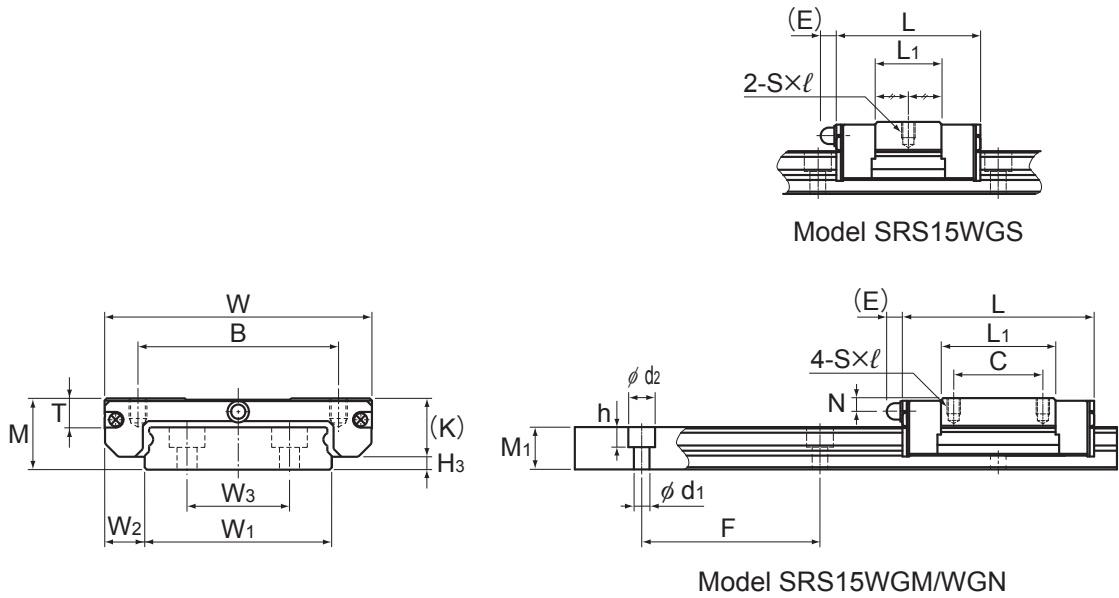
### Model number coding

**2 SRS15WM QZ UU C1 +550L P M - II**

2	SRS15WM	QZ	UU	C1	+550L	P	M	- II
No. of LM blocks used on the same rail	Model No.	With QZ Lubricator	Contamination protection accessory symbol (*1)	Radial clearance symbol (*2) Normal (No symbol)/ Light preload (C1)	LM rail length (in mm)	Stainless steel LM rail	Accuracy symbol (*3) Normal grade (No Symbol)/High accuracy grade (H) Precision grade (P)	Symbol for No. of rails used on the same plane (*4)

(\*1) See contamination protection accessory on **A1-496**. (\*2) See **A1-70**. (\*3) See **A1-82**. (\*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.) Those models equipped with QZ Lubricator cannot have a grease nipple. When desiring a grease nipple for a model attached with QZ, contact THK.



Unit: mm

	LM rail dimensions							Basic load rating		Static permissible moment N-m*					Mass	
	Width			Height	Pitch		Length*	C	C <sub>0</sub>	M <sub>A</sub>		M <sub>B</sub>		M <sub>C</sub>	LM block	LM rail
	W <sub>1</sub>	W <sub>2</sub>	W <sub>3</sub>	M <sub>1</sub>	F	d <sub>1</sub> × d <sub>2</sub> × h	Max	kN	kN	1 block	Double blocks	1 block	Double blocks	1 block	kg	kg/m
	42 <sup>0</sup> <sub>-0.02</sub>	9	23	9.5	40	4.5 × 8 × 4.5	2000	6.64 5.59	5.94 6.78	25.4 29	158 178	25.4 29	158 178	123 140	0.087	2.87
	42 <sup>0</sup> <sub>-0.02</sub>	9	23	9.5	40	4.5 × 8 × 4.5	2000	9.12 7.43	8.55 8.59	51.2 52.7	290 293	51.2 52.7	290 293	176 178	0.13	2.87
	42 <sup>0</sup> <sub>-0.02</sub>	9	23	9.5	40	4.5 × 8 × 4.5	2000	12.4 9.87	12.1 15.3	106 133	532 671	106 133	532 671	250 317	0.201	2.87

Note) The maximum length under "Length \* " indicates the standard maximum length of an LM rail. (See **A1-160**.)  
 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 **A1-472** or **A1-492**)

## Standard Length and Maximum Length of the LM Rail

Table2 shows the standard lengths and the maximum lengths of model SRS variations. If the maximum length of the desired LM rail exceeds them, jointed rails will be used. Contact THK for details. For the G dimension when a special length is required, we recommend selecting the corresponding G value from the table. The longer the G dimension is, the less stable the G area may become after installation, thus causing an adverse impact to accuracy.

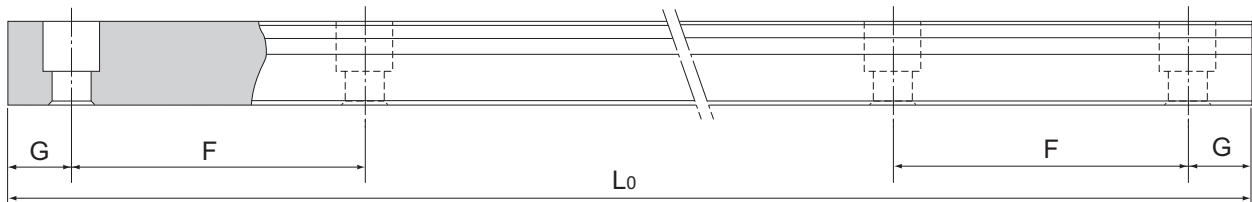


Table2 Standard Length and Maximum Length of the LM Rail for Model SRS

Unit: mm

Model No.	SRS 5	SRS 5W	SRS 7	SRS 7W	SRS 9	SRS 9W	SRS 12	SRS 12W	SRS 15	SRS 15W	SRS 20	SRS 25
LM rail standard length (L <sub>0</sub> )	40	50	40	50	55	50	70	70	70	110	220	220
	55	70	55	80	75	80	95	110	110	150	280	280
	70	90	70	110	95	110	120	150	150	190	340	340
	100	110	85	140	115	140	145	190	190	230	460	460
	130	130	100	170	135	170	170	230	230	270	640	640
	160	150	115	200	155	200	195	270	270	310	880	880
		170	130	260	175	260	220	310	310	430	1000	1000
				290	195	290	245	390	350	550		
					275	320	270	470	390	670		
					375		320	550	430	790		
Standard pitch F	15	20	15	30	20	30	25	40	40	40	60	60
G	5	5	5	10	7.5	10	10	15	15	15	20	20
Max length	220	220	480	480	1240	1430	2000	2000	2000	2000	1800	1800

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.