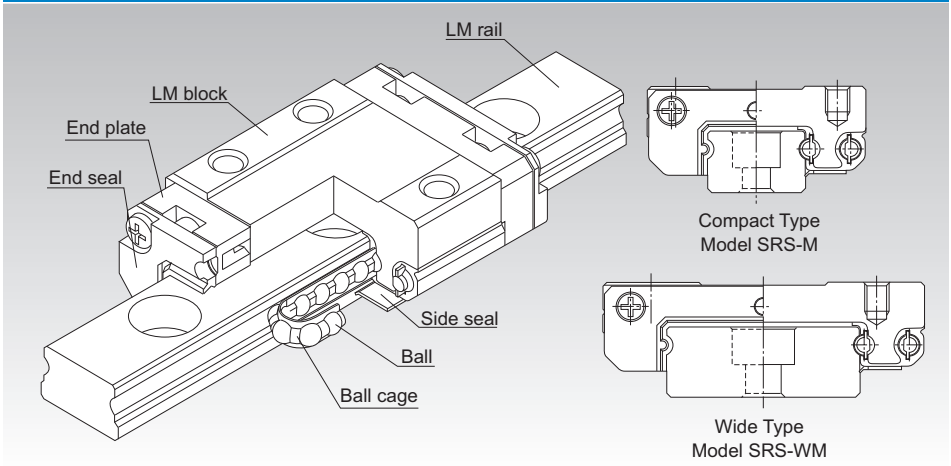
SRS

Miniature Caged Ball LM Guide Model SRS



Note: For the ball cage, see A1-90.

Structure and Features

Caged Ball LM Guide Model SRS has two raceways incorporated into its compact structure, enabling the model to receive loads in all directions, and to be used as a single axis in locations where a moment is applied. In addition, use of ball cages eliminates friction between balls, thus achieving high speed, low noise, reduced running sound, long service life, and long-term maintenance-free operation.

Low Dust Generation

Use of ball cages eliminates friction between balls and retains lubricant, thus achieving low dust generation. In addition, the LM block and LM rail use stainless steel, which is highly resistant to corrosion.

Compact

Because the LM rail has a low cross-sectional height and a compact structure with a single row of balls on either side, it can be installed in smaller areas.

Lightweight

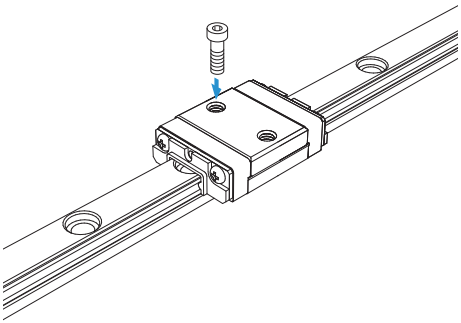
Since parts of the LM block (e.g., around the ball release hole) are made of resin and formed through injection molding, SRS is a lightweight, low-inertia type of LM Guide.

Types and Features

Model SRS5M

Dimensional Table⇒A1-156

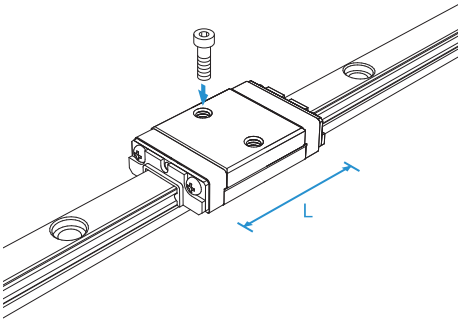
SRS5 is the smallest Caged Ball LM guide.



Model SRS5N

Dimensional Table⇒A1-156

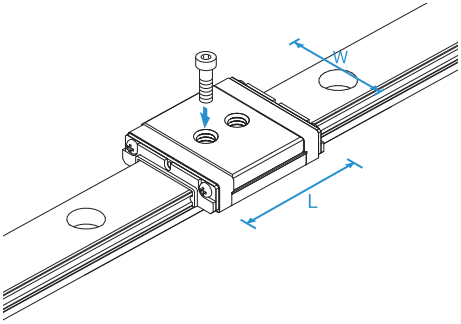
The overall LM block length (L) is greater than for model SRS5M; load rating and permissible moment are higher as well.



Model SRS5WM

Dimensional Table⇒A1-160

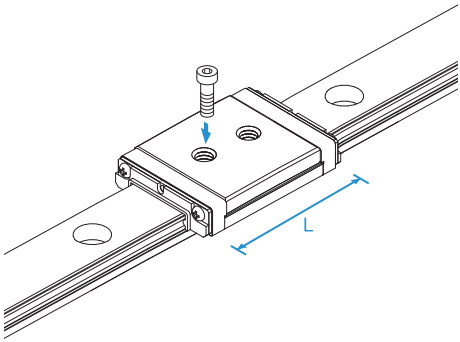
This model has a larger overall LM block length (L), width (W), load rating and permissible moment than model SRS5M.



Model SRS5WN

Dimensional Table⇒A1-160

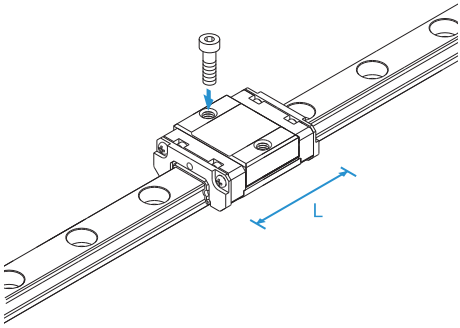
The overall LM block length (L) is greater than for model SRS5WM; load rating and permissible moment are higher as well.



Model SRS-S

Dimensional Table⇒A1-156

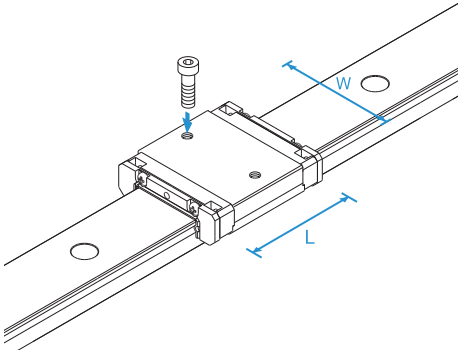
The overall LM block length (L) is less than that of model SRS-M.



Model SRS-WS

Dimensional Table⇒A1-160

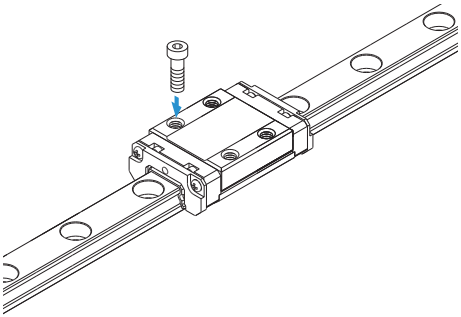
This model has a longer overall LM block length (L), a greater width, and a larger load rating and permissible moment than SRS-S.



Model SRS-M

Dimensional Table⇒A1-156

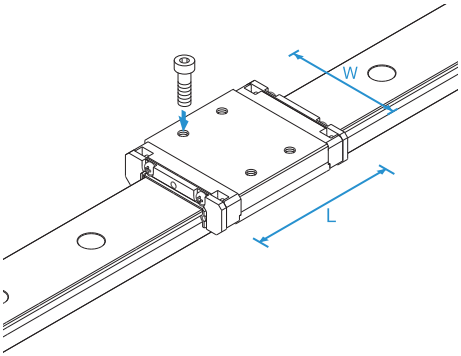
This model is the standard type of SRS.



Model SRS-WM

Dimensional Table⇒A1-160

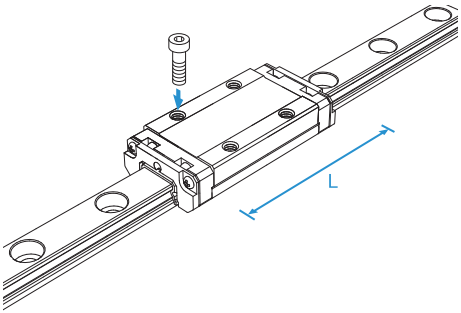
This model has a longer overall LM block length (L), a greater width, and a larger load rating and permissible moment than SRS-M.



Model SRS-N

Dimensional Table⇒A1-156

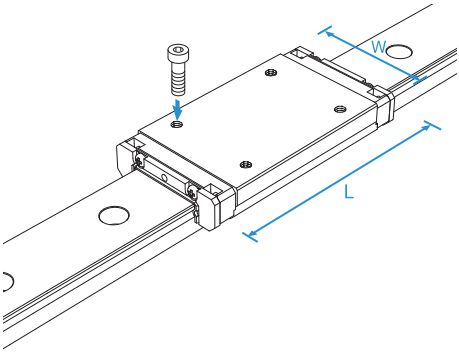
Compared with Model SRS-M, it has a longer total LM block length (L) and a higher load rating and permissible moment.



Model SRS-WN

Dimensional Table⇒A1-160

Compared with Model SRS-WM, it has a longer total LM block length (L) and a higher load rating and permissible moment.



SRS-G

Dimensional Table⇒A1-156 to A1-162

The SRS-G, a model equipped with uncaged, full-complement bearings, is also available. Due to its cageless design, however, the SRS-G's dynamic load rating is lower than that of standard SRS models. For specific data, please refer to the dimension tables in this catalog.

Flatness of the LM Rail and the LM Block Mounting Surface

Since the Model SRS has Gothic-arch grooves, any precision errors in the mounting surface may negatively affect its operability. Therefore, we recommend using SRS on mounting surfaces made with high precision.

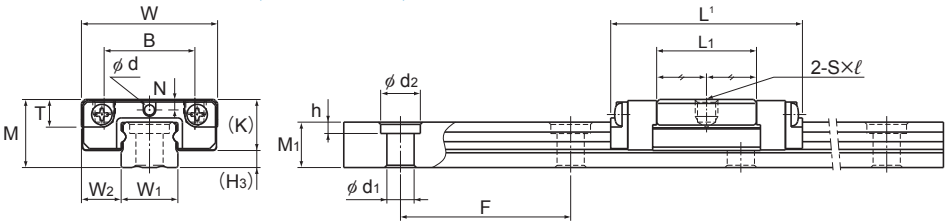
Table 1: Flatness of the LM Rail and the LM Block Mounting Surface

Unit: mm

Model No.	Flatness error
SRS 5	0.015/200
SRS 7	0.025/200
SRS 9	0.035/200
SRS 12	0.050/200
SRS 15	0.060/200
SRS 20	0.070/200
SRS 25	0.070/200

Notes: As many factors can affect the mounting precision, we recommend using values 70% or less than those shown.
The above figures apply to normal clearances. When using two or more rails with C1 clearance, we recommend using values 50% or less than those shown.

Models SRS-S, SRS-M, and SRS-N



Models SRS5M/N

Model No.	Outer dimensions			LM block dimensions								
	Height	Width	Length[1]								Lubrication hole	
	M	W	L	B	C	S×ℓ	L_1	T	K	N	d	H_3
SRS 5M SRS 5GM	6	12	16.9	8	—	M2×1.5	8.8	1.7	4.5	0.93	0.8	1.5
SRS 5N SRS 5GN	6	12	20.1	8	—	M2×1.5	12	1.7	4.5	0.93	0.8	1.5
SRS 7S SRS 7GS	8	17	19	12	—	M2×2.3	9	3.3	6.7	1.6	1.2	1.3
SRS 7M SRS 7GM	8	17	23.4	12	8	M2×2.3	13.4	3.3	6.7	1.6	1.2	1.3
SRS 7N SRS 7GN	8	17	31	12	13	M2×2.3	21	3.3	6.7	1.6	1.2	1.3
SRS 9XS SRS 9XGS	10	20	21.5	15	—	M3×2.8	10.5	4.5	8.5	2.4	1.6	1.5
SRS 9XM SRS 9XGM	10	20	30.8	15	10	M3×2.8	19.8	4.5	8.5	2.4	1.6	1.5
SRS 9XN SRS 9XGN	10	20	40.8	15	16	M3×2.8	29.8	4.5	8.5	2.4	1.6	1.5
SRS 12S SRS 12GS	13	27	25	20	—	M3×3.2	11.2	5.7	11	3	2	2.1
SRS 12M SRS 12GM	13	27	34.4	20	15	M3×3.2	20.6	5.7	11	3	2	2.1
SRS 12N SRS 12GN	13	27	47.1	20	20	M3×3.2	33.3	5.7	11	3	2	2.1

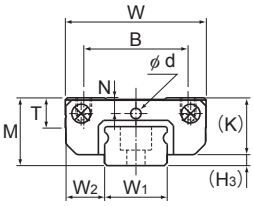
Model number coding

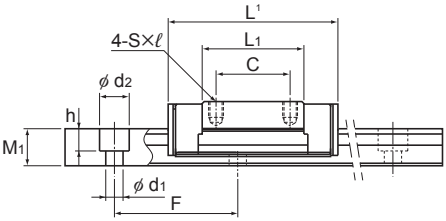
2 SRS12M QZ UU C1 +220L P M -II

- 2: No. of LM blocks used on the same rail
- SRS12M: Model No.
- QZ: With QZ Lubricator
- UU: Contamination protection accessory symbol
- C1: Radial clearance symbol — Normal (No symbol)/Light preload (C1)
- +220L: LM rail length (in mm)
- P: Accuracy symbol — Normal grade (No Symbol)/High accuracy grade (H) Precision grade (P)
- M: Stainless steel LM rail
- -II: Symbol for No. of rails used on the same plane

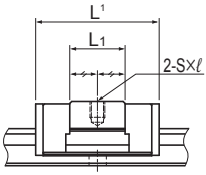
Notes: This model number indicates that a single-rail unit constitutes one set (i.e., required number of sets when 2 rails are used in parallel is 2 at a minimum).
Grease nipples are not installed when there is a QZ Lubricator. Contact THK if you want to use a grease nipple for a model with a QZ.
No symbol for single LM block. See **A1-547** for contamination protection accessories. See **A1-73** for radial clearance symbol. See **A1-85** for accuracy symbol. See **A1-13** for symbol for number of rails used on the same plane.

Download data from the THK Online Services website. https://www.thk.com/





Models SRS7 to 12M/N



Models SRS7 to 12S

Unit: mm

LM rail dimensions							Basic load rating[3]		Static permissible moment N·m [4]						Mass	
	Width		Height	Pitch		Length[2]	C	C_0	M_A		M_B		M_C		LM block	LM rail
	$W_1{}^{0}_{-0.02}$	W_2	M_1	F	$d_1 \times d_2 \times h$	Max	kN	kN	1 block	2 blocks	1 block	2 blocks	1 block		kg	kg/m
	5	3.5	4	15	2.4×3.5×1	220	0.439 0.366	0.468 0.527	0.74 0.79	5.11 5.76	0.86 0.94	5.99 6.91	1.21 1.37		0.002	0.13
	5	3.5	4	15	2.4×3.5×1	220	0.515 0.448	0.586 0.703	1.12 1.34	7.45 8.82	1.31 1.57	8.73 10.3	1.52 1.83		0.003	0.13
	7	5	4.7	15	2.4×4.2×2.3	480	1.09 0.946	0.964 1.16	1.60 1.96	12.6 14.7	1.83 2.25	14.5 16.9	3.73 4.49		0.005	0.25
	7	5	4.7	15	2.4×4.2×2.3	480	1.51 1.16	1.29 1.54	3.09 3.61	17.2 25.5	3.69 4.14	17.3 29.4	5.02 6.57		0.009	0.25
	7	5	4.7	15	2.4×4.2×2.3	480	2.01 1.63	2.31 2.51	7.77 8.08	43.2 46.9	8.96 9.32	50.0 54.2	8.96 9.72		0.012	0.25
	9	5.5	5.5	20	3.5×6×3.3	1240	1.78 1.37	1.53 1.53	3.15 2.85	22.2 22.6	3.61 3.27	25.6 26	7.04 7.04		0.009	0.36
	9	5.5	5.5	20	3.5×6×3.3	1240	2.69 2.22	2.75 3.06	9.31 9.87	52.2 57.9	10.7 11.4	60.3 66.9	12.7 14.1		0.016	0.36
	9	5.5	5.5	20	3.5×6×3.3	1240	3.48 2.94	3.98 4.59	18.7 21.1	96.5 111	21.6 24.4	112 128	18.3 21.1		0.024	0.36
	12	7.5	7.5	25	3.5×6×4.5	2000	2.70 2.07	2.10 2.10	4.62 4.17	37.5 38.1	4.62 4.17	37.5 38.1	13.8 13.8		0.017	0.65
	12	7.5	7.5	25	3.5×6×4.5	2000	4.00 3.36	3.53 3.55	12.0 12.1	78.5 79.0	12.0 12.1	78.5 79.0	23.1 23.2		0.027	0.65
	12	7.5	7.5	25	3.5×6×4.5	2000	5.82 4.72	5.30 6.83	28.4 34.8	151 195	28.4 34.8	151 195	34.7 44.7		0.049	0.65

[1] Length L shown in the table is the length with the contamination protection accessories, code UU or SS.
If other contamination protection accessories or lubricant equipment are installed, the total block length will increase. (See **A1-521** or **A1-543**)

[2] The maximum length indicates the standard maximum length of an LM rail. (See **A1-164**.)

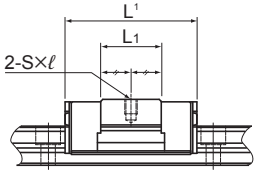
[3] The basic load rating is for a load in the radial direction.
Use **A1-61** on Table 7 to calculate the load rating for loads in the reverse-radial direction or lateral direction.

[4] Static permissible moment 1 block: the static permissible moment with one LM block
2 blocks: the static permissible moment with two LM blocks in close contact with each other

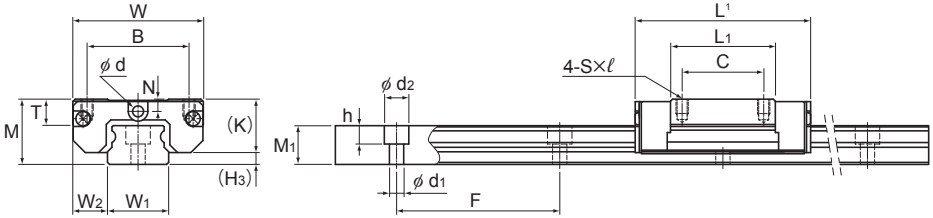
Notes: Since stainless steel is used in the LM block, LM rail, and balls, these models are highly resistant to corrosion and environment.
The SRS-G is equipped with uncaged, full-complement bearings
Using a lubrication hole other than for greasing may cause damage.
For the SRS5M/N LM Guide, the balls will fall out of the block if it is removed from the rail.
To secure the LM rail of Model SRS5, use M2 cross-recessed head screws for precision equipment (No. 0 pan head screw, class 1).

Options⇒A1-507

Models SRS-S, SRS-M, and SRS-N



Model SRS15S



Models SRS15M/N, 20M, 25M

Model No.	Outer dimensions			LM block dimensions										H_3
	Height M	Width W	Length¹ L	B	C	S×ℓ	L_1	T	K	N	E	Lubrication hole d	Grease nipple	
SRS 15S SRS 15GS	16	32	32	25	—	M3×3.5	14.7	6.5	13.3	3	— 4	3 —	— PB107	2.7
SRS 15M SRS 15GM	16	32	43	25	20	M3×3.5	25.7	6.5	13.3	3	— 4	3 —	— PB107	2.7
SRS 15N SRS 15GN	16	32	60.8	25	25	M3×3.5	43.5	6.5	13.3	3	— 4	3 —	— PB107	2.7
SRS 20M SRS 20GM	20	40	50	30	25	M4×6	34	9	16.6	4	— 3.5	3 —	— PB107	3.4
SRS 25M SRS 25GM	25	48	77	35	35	M6×7	56	11	20	5	— 4	4 —	— PB1021B	5

Model number coding

2 SRS20M QZ UU C1 +220L P M -II

- **2**: No. of LM blocks used on the same rail
- **SRS20M**: Model No.
- **QZ**: With QZ Lubricator
- **UU**: Contamination protection accessory symbol
- **C1**: Radial clearance symbol — Normal (No symbol)/Light preload (C1)
- **+220L**: LM rail length (in mm)
- **P**: Accuracy symbol — Normal grade (No Symbol)/High accuracy grade (H) Precision grade (P)
- **M**: Stainless steel LM rail
- **-II**: Symbol for No. of rails used on the same plane

Notes: 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).
Grease nipples are not installed when there is a QZ Lubricator. Contact THK if you want to use a grease nipple for a model with a QZ.
No symbol for single LM block. See **A1-547** for contamination protection accessories. See **A1-73** for radial clearance symbol. See **A1-85** for accuracy symbol. See **A1-13** for symbol for number of rails used on the same plane.

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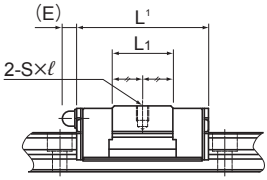
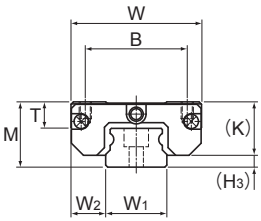
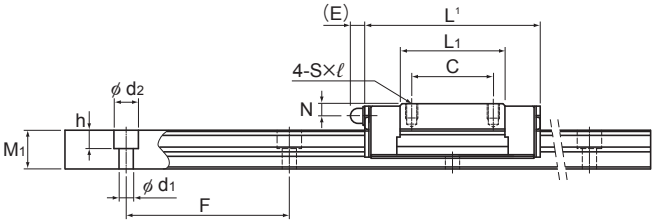


Model SRS15GS





Models SRS15GM/GN, 20GM, 25GM

Unit: mm

	LM rail dimensions						Basic load rating[3]		Static permissible moment N·m [4]						Mass	
	Width		Height	Pitch		Length[2]	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	2 blocks	1 block	2 blocks	1 block		kg	kg/m
	15 $^{0}_{-0.02}$	8.5	9.5	40	3.5×6×4.5	2000	4.50 4.01	3.39 4.24	9.54 12.6	77.5 92.7	9.54 12.6	77.5 92.7	24.1 30.1		0.033	0.96
	15 $^{0}_{-0.02}$	8.5	9.5	40	3.5×6×4.5	2000	6.66 5.59	5.7 5.72	26.2 24.8	154 158	26.2 24.8	154 158	40.4 40.6		0.047	0.96
	15 $^{0}_{-0.02}$	8.5	9.5	40	3.5×6×4.5	2000	9.71 8.27	8.55 11.9	59.7 82.3	312 433	59.7 82.3	312 433	60.7 84.5		0.095	0.96
	20 $^{0}_{-0.03}$	10	11	60	6×9.5×8	1800	7.75 5.95	9.77 9.4	54.3 44.7	296 242	62.4 53.3	341 289	104 91.4		0.11	1.68
	23 $^{0}_{-0.03}$	12.5	15	60	7×11×9	1800	16.5 13.3	20.2 22.3	177 181	932 962	177 181	932 962	248 255		0.24	2.6

[1] Length L shown in the table is the length with the contamination protection accessories, code UU or SS.
If other contamination protection accessories or lubricant equipment are installed, the total block length will increase. (See **A1-521** or **A1-543**)

[2] The maximum length indicates the standard maximum length of an LM rail. (See **A1-164**.)

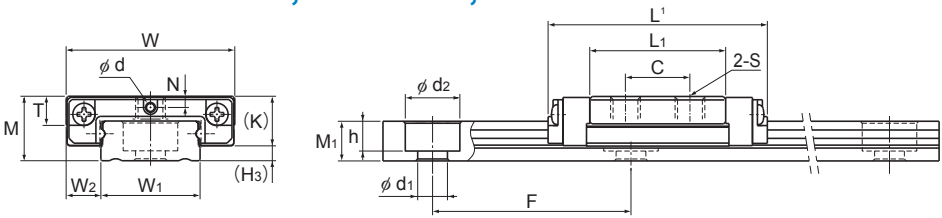
[3] The basic load rating is for a load in the radial direction.
Use **A1-61** on Table 7 to calculate the load rating for loads in the reverse-radial direction or lateral direction.

[4] Static permissible moment 1 block: the static permissible moment with one LM block
2 blocks: the static permissible moment with two LM blocks in close contact with each other

Notes: 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 SRS15S/M/N, 20M, and 25M, if a grease nipple is required, please specify upon ordering.
Using a lubrication hole other than for greasing may cause damage.

Options⇒A1-507

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



Models SRS5WM/WN

Model No.	Outer dimensions			LM block dimensions								
	Height	Width	Length[1]								Lubrication hole	
	M	W	L	B	C	S×ℓ	L_1	T	K	N	d	H_3
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

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
- C1: Radial clearance symbol — Normal (No symbol)/ Light preload (C1)
- +470L: LM rail length (in mm)
- P: Accuracy symbol — Normal grade (No Symbol)/High accuracy grade (H) / Precision grade (P)
- M: Stainless steel LM rail
- -II: Symbol for No. of rails used on the same plane

Notes: 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).
Grease nipples are not installed when there is a QZ Lubricator. Contact THK if you want to use a grease nipple for a model with a QZ.
No symbol for single LM block. See **A1-547** for contamination protection accessories. See **A1-73** for radial clearance symbol. See **A1-85** for accuracy symbol. See **A1-13** for symbol for number of rails used on the same plane.

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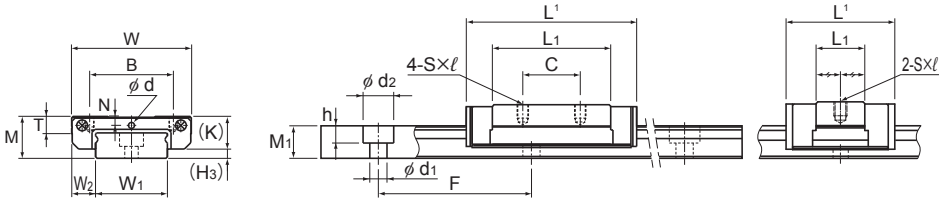


Models SRS7 to 12WM/WN　　Models SRS7 to 12WS

Unit: mm

	LM rail dimensions							Basic load rating[3]		Static permissible moment N·m [4]					Mass	
	Width			Height	Pitch		Length[2]	C	C_0	M_A		M_B		M_C	LM block	LM rail
	W_1 $^{0}_{-0.02}$	W_2	W_3	M_1	F	$d_1 \times d_2 \times h$	Max	kN	kN	1 block	2 blocks	1 block	2 blocks	1 block	kg	kg/m
	10	3.5	—	4	20	3×5.5×3	220	0.584 0.498	0.703 0.82	1.57 1.79	9.59 11.1	1.83 2.15	11.24 13.3	3.58 4.18	0.005	0.27
	10	3.5	—	4	20	3×5.5×3	220	0.746 0.64	0.996 1.17	3.01 3.54	16.8 19.6	3.53 4.15	19.7 23	5.08 5.97	0.007	0.27
	14	5.5	—	5.2	30	3.5×6×3.2	480	1.38 1.06	1.35 1.35	2.89 2.58	19.6 20.0	3.32 2.96	22.7 23.1	9.95 9.95	0.011	0.56
	14	5.5	—	5.2	30	3.5×6×3.2	480	2.01 1.63	1.94 2.51	6.47 8.87	36.4 51.5	7.71 10.2	42.3 59.5	14.33 20.3	0.018	0.56
	14	5.5	—	5.2	30	3.5×6×3.2	480	2.56 2.12	3.28 3.66	15.0 16.6	78.9 87.7	17.4 19.2	91.2 101	24.2 27	0.026	0.56
	18	6	—	7.5	30	3.5×6×4.5	1430	2.03 1.73	1.84 2.14	4.49 5.15	32.1 36.9	5.15 5.92	38.9 42.6	17.4 20.2	0.018	1.01
	18	6	—	7.5	30	3.5×6×4.5	1430	3.29 2.67	3.34 3.35	14.0 13.9	78.6 69.7	16.2 16.6	91.0 96.7	31.5 31.7	0.031	1.01
	18	6	—	7.5	30	3.5×6×4.5	1430	4.20 3.48	4.37 5.81	25.1 33.2	130 172	29.1 40	151 208	41.3 54.9	0.049	1.01
	24	8	—	8.5	40	4.5×8×4.5	2000	3.58 3.05	3.15 3.68	9.77 11.1	63 72.6	9.77 11.1	63 72.6	39.5 46.2	0.034	1.52
	24	8	—	8.5	40	4.5×8×4.5	2000	5.48 4.46	5.3 5.32	26.4 25.7	143 146	26.4 25.7	143 146	66.5 66.8	0.055	1.52
	24	8	—	8.5	40	4.5×8×4.5	2000	7.13 5.93	7.07 9.46	49.2 64.7	249 332	49.2 64.7	249 332	88.7 119	0.091	1.52

[1] Length L shown in the table is the length with the contamination protection accessories, code UU or SS.
If other contamination protection accessories or lubricant equipment are installed, the total block length will increase. (See **A1-521** or **A1-543**)

[2] The maximum length indicates the standard maximum length of an LM rail. (See **A1-164**.)

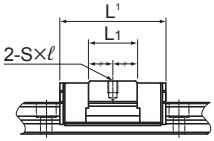
[3] The basic load rating is for a load in the radial direction.
Use **A1-61** on Table 7 to calculate the load rating for loads in the reverse-radial direction or lateral direction.

[4] Static permissible moment　1 block: the static permissible moment with one LM block
2 blocks: the static permissible moment with two LM blocks in close contact with each other

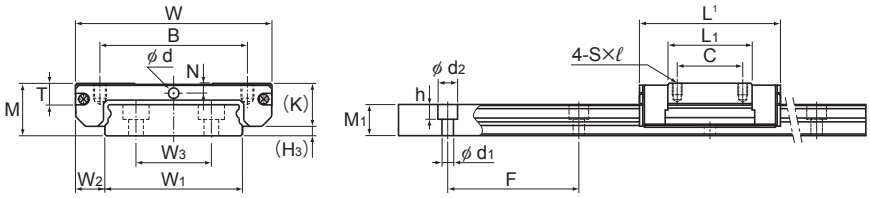
Notes: Since stainless steel is used in the LM block, LM rail, and balls, these models are highly resistant to corrosion and environment.
The SRS-G is equipped with uncaged, full-complement bearings
Using a lubrication hole other than for greasing may cause damage.
For models SRS5WM/WN, the balls will fall out of the block if it is removed from the rail.

Options⇒A1-507

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



Model SRS15WS



Model SRS15WM/WN

Model No.	Outer dimensions			LM block dimensions										H_3
	Height M	Width W	Length¹ L	B	C	S×ℓ	L_1	T	K	N	E	Lubrication hole d	Grease nipple	
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

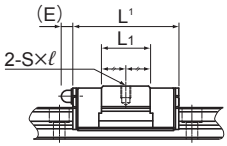
Model number coding

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

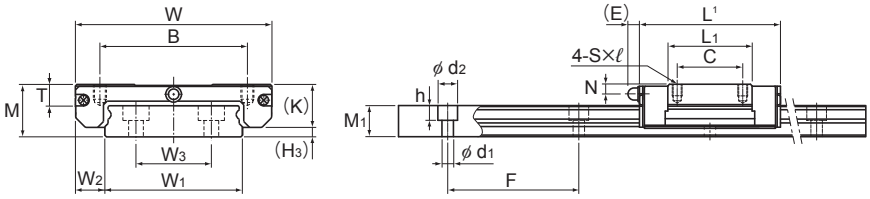
- **2**: No. of LM blocks used on the same rail
- **SRS15WM**: Model No.
- **QZ**: With QZ Lubricator
- **UU**: Contamination protection accessory symbol
- **C1**: Radial clearance symbol — Normal (No symbol)/ Light preload (C1)
- **+550L**: LM rail length (in mm)
- **P**: Accuracy symbol — Normal grade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

Notes: 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).
Grease nipples are not installed when there is a QZ Lubricator. Contact THK if you want to use a grease nipple for a model with a QZ.
No symbol for single LM block. See **A1-547** for contamination protection accessories. See **A1-73** for radial clearance symbol. See **A1-85** for accuracy symbol. See **A1-13** for symbol for number of rails used on the same plane.

Download data from the THK Online Services website. https://www.thk.com/



Model SRS15WGS



Model SRS15WGM/WGN

Unit: mm

	LM rail dimensions							Basic load rating		Static permissible moment N·m [3]					Mass	
	Width			Height	Pitch		Length[2]	C	C_0	M_A		M_B		M_C	LM block	LM rail
	W_1 $^{0}_{-0.02}$	W_2	W_3	M_1	F	$d_1 \times d_2 \times h$	Max	kN	kN	1 block	2 blocks	1 block	2 blocks	1 block	kg	kg/m
	42	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	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	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

[1] Length L shown in the table is the length with the contamination protection accessories, code UU or SS.
If other contamination protection accessories or lubricant equipment are installed, the total block length will increase. (See **A1-521** or **A1-543**)

[2] The maximum length indicates the standard maximum length of an LM rail. (See **A1-164**.)

[3] Static permissible moment 1 block: the static permissible moment with one LM block
2 blocks: the static permissible moment with two LM blocks in close contact with each other

Notes: 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 lubrication hole other than for greasing may cause damage.

Options⇒A1-507

Standard Lengths and Maximum Lengths of LM Rails

Table 2 shows the standard lengths and the maximum lengths of model SRS 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.

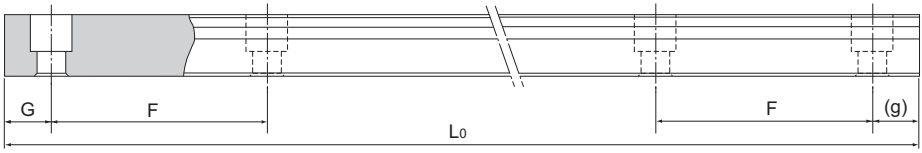


Table 2: Standard Lengths and Maximum Lengths of LM Rails for Model SRS

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 lengths (L_o)	40 55 70 100 130 160	50 70 90 110 130 150 170	40 55 70 85 100 115 130	50 80 110 140 170 200 260 290	55 75 95 115 135 155 175 195 275 375	50 80 110 140 170 200 260 290 320	70 95 120 145 170 195 220 245 270 320 370 470 570	70 110 150 190 230 270 310 390 470 550	70 110 150 190 230 270 310 350 390 430 470 550 670 870	110 150 190 230 270 310 430 550 670 790	220 280 340 460 640 880 1000	220 280 340 460 640 880 1000
Standard pitch F	15	20	15	30	20	30	25	40	40	40	60	60
G, 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

Notes: The maximum length varies with accuracy grades. Contact THK for details.
If jointed rails are not allowed and a greater length than the maximum values above is required, contact THK.

Reference bolt tightening torques when mounting an LM block

Reference bolt-tightening torques when mounting an LM block for Model SRS are shown in Table 3. Tightening above the tightening torque affects accuracy. Be sure to tighten at or below the defined tightening torque.

Table 3: Reference tightening torque

Model No.	Model No. of screw	Screw depth (mm)	Reference tightening torque (N·m)
SRS 5	M2	1.5	0.4
SRS 5W	M3	2.3	0.4
SRS 7	M2	2.3	0.4
SRS 7W	M3	2.8	0.4