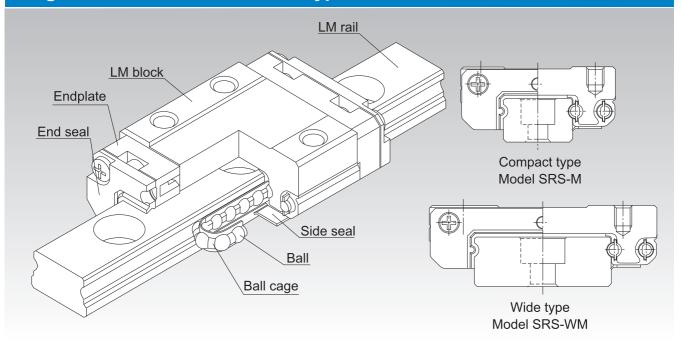
SRS



Caged Ball LM Guide Miniature Type Model SRS



*For the ball cage, see **A1-90**.

Point of Selection	A1-10
Point of Design	A1-460
Options	A1-485
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Structure and Features

Caged Ball LM Guide model SRS has a structure where two raceways are incorporated into the compact body, enabling the model to receive loads in all directions, and to be used in locations where a moment is applied with a single rail. In addition, use of ball cages eliminates friction between balls, thus achieving high speed, low noise, acceptable 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 gen-eration. In addition, the LM block and LM rail use stainless steel, which is highly resistant to corrosion.

[Compact]

Since SRS has a compact structure where the rail cross section is designed to be low and that contains only two rows of balls, it can be installed in space-saving locations.

[Lightweight]

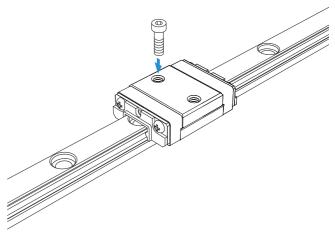
Since part of the LM block (e.g., around the ball relief hole) is made of resin and formed through insert molding, SRS is a lightweight, low inertia type of LM Guide.

Types and Features

Model SRS5M

SRS5 is the smallest caged hall I M quide

SRS5 is the smallest caged ball LM guide.

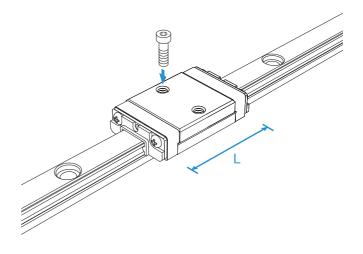


Model SRS-5N

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

Specification Table⇒A1-156

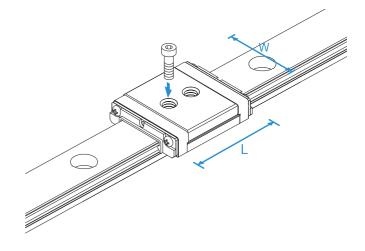
Specification Table⇒A1-156



Model SRS5WM

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

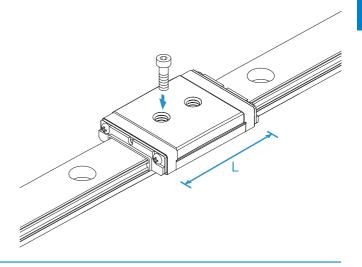
Specification Table⇒**△1-160**



Model SRS-5WN

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

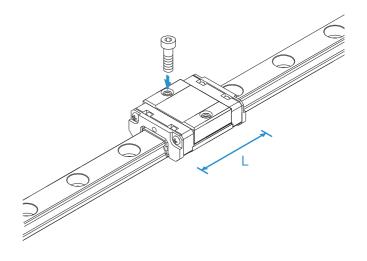
Specification Table⇒A1-160



Model SRS-S

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

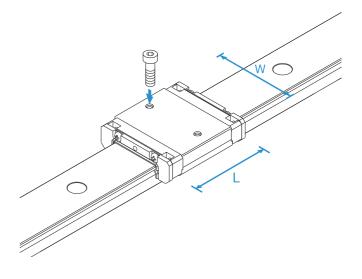
Specification Table⇒A1-156



Model SRS-WS

Has a longer overall LM block length (L), a greater width and a larger rated load and permissible moment than SRS-S.

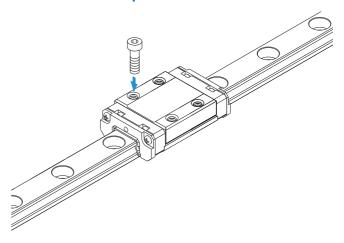
Specification Table⇒A1-160



Model SRS-M

A standard type of SRS.

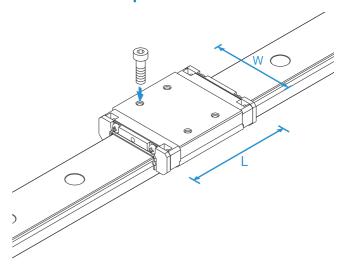
Specification Table⇒A1-156



Model SRS-WM

Has a longer overall LM block length (L), a greater width and a larger rated load and permissible moment than SRS-M.

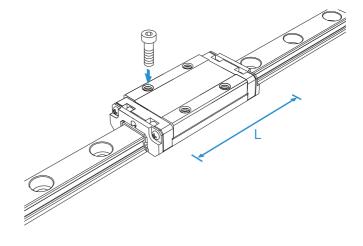
Specification Table⇒A1-160



Model SRS-N

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

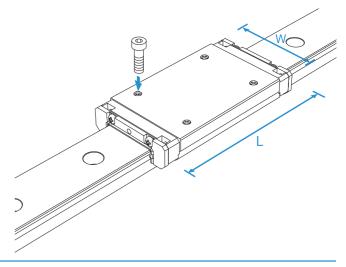
Specification Table⇒A1-156



Model SRS-WN

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

Specification Table⇒A1-160



SRS-G

Specification 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.

Table1 Flatness of the LM Rail and the LM Block Mounting Surface

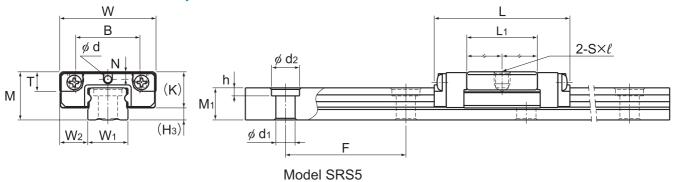
Unit: mm

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

Note 1) As many factors can affect the mounting precision, we recommend using values 70% or less than those shown.

Note 2) 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



	Oute	r dimen	sions			LM	block di	mensior	ns			
Model No.	Height	Width	Length								Greasing hole	
	М	W	L	В	С	S×ℓ	L ₁	Т	K	N	d	H₃
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

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

No. of LM blocks

+220L SRS12M C1

> Model No. With QZ Contamination Lubricator protection accessory symbol (*2)

LM rail length (in mm)

Stainless steel LM rail

Symbol for No. of rails used on the same plane (*5)

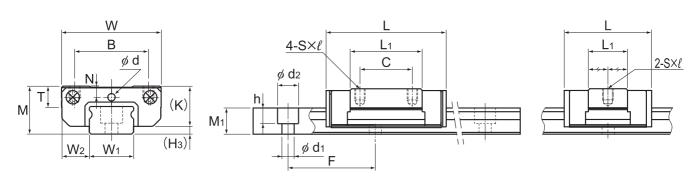
Accuracy symbol (*4)

No. of LM blocks Radial clearance symbol (*3) Normal grade (No Sused on the same rail (*1) Normal (No symbol)/Light preload (C1) Precision grade (P) Normal grade (No Sýmbol)/High accuracy grade (H)

> (*1) No symbol for 1 LM block. (*2) See contamination protection accessories on ▲1-524. (*3) See **A1-72**. (*4) See **A1-84**. (*5) 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 SRS7M/N,9XM/XN,12M/N

Models SRS7S,9XS,12S Unit: mm

	L	M rail	dimer	nsions		Basic rat	load ing	Static	permis	sible m	noment	N·m*	Ма	ss
Width		Height	Pitch		Length*	С	C ₀	N	1 _A			M _°	LM block	LM rail
W ₁	W_2	M₁	F	$d_1 \times d_2 \times h$	Max	kN	kN	1 block	Double blocks	1 block	Double blocks	1 block	kg	kg/m
5 ⁰ _{-0.02}	3.5	4	15	2.4×3.5×1	220	0.439 0.366		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 0 -0.02	3.5	4	15	2.4×3.5×1	220	0.515 0.448		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 0 -0.02	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 0 -0.02	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 0 -0.02	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 0 -0.02	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 0 -0.02	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 0 -0.02	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 0 -0.02	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 0 -0.02	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 0 -0.02	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

Note1) The maximum length under "Length*" indicates the standard maximum length of an LM rail. (See **A1-164**.) 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 \(\text{M1-499} \) or \(\text{M1-520} \)

For the SRS5M and SRS5N LM guide, the balls will fall out of the block if it is removed from the rail.

To secure the LM rail of model SRS5M, use cross-recessed head screws for precision equipment (No. 0 pan head screw, class 1) M2.

Note2) The basic load rating in the dimension table is for a load in the radial direction. Use Table7 on \(\text{M1-60} \) to calculate the load rating for loads in the reverse radial direction as lateral direction. the load rating for loads in the reverse radial direction or lateral direction.

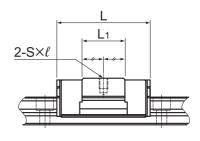
• Reference bolt tightening torque when mounting an LM block for model SRS 5 and 7 are shown in the table below.

Reference tightening torque

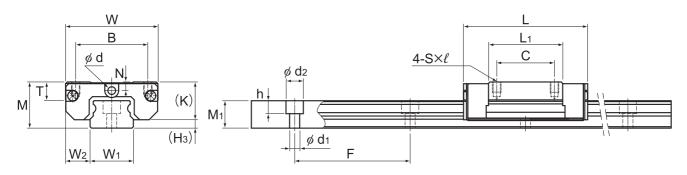
Model No.	Model No. of screw	Screw depth (mm)	Reference tightening torque(N·m)*
SRS 5	M2	1.5	0.4
SRS 7	M2	2.3	0.4

^{*}Tightening above the tightening torque affects accuracy. Be sure to tighten at or below the defi ned tightening torque.

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



Model SRS15S



Models SRS15M/N,20M,25M

	Outer	dimer	nsions				LM b	lock dir	mensio	ns				
Model No.	Height	Width	Length									Greasing hole	Grease nipple	
	М	W	L	В	С	s×ℓ	L₁	Т	K	N	Е	d		Н₃
SRS 15S SRS 15GS	16	32	32	25	_	M3×3.5	14.7	6.5	13.3	3	4	3	— РВ107	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 —	— РВ107	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

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 SRS15S/M/N, 20M, and 25M, if a grease nipple is required, please specify upon ordering.

Using a greasing hole other than for greasing may cause damage.

Model number coding

SRS20M +220L

Radial clearance symbol (*3)

Normal (No symbol)/Light preload (C1)

symbol (*2)

With QZ Model No. Contamination protection Lubricator accessory

LM rail length (in mm)

Stainless steel LM rail

Symbol for No. of rails used on the same plane (*5)

Accuracy symbol (*4)

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

(*1) No symbol for 1 LM block. (*2) See contamination protection accessories on A1-524.

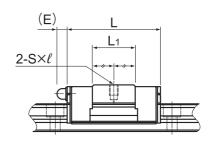
(*3) See **A1-72**. (*4) See **A1-84**. (*5) See **A1-13**.

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.

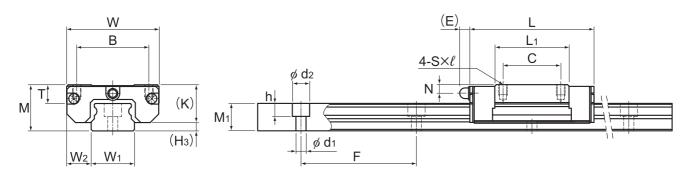


used on the same rail (*1)

No. of LM blocks



Model SRS15GS



Models SRS15GM/GN,20GM,25GM

Unit: mm

	L	M rail	dimer	nsions		Basic rati		Static	permis	sible m	moment N·n		Ма	ss
Width		Height	Pitch		Length*	O	Co		14	\[\rac{1}{2}		M° C	LM block	LM rail
W ₁	W_2	M₁	F	$d_1 \times d_2 \times h$	Max	kN	kN		Double blocks		Double blocks		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

Note1)The maximum length under "Length*" indicates the standard maximum length of an LM rail. (See **A1-164**.) Static permissible moment* 1 block: the static permissible moment with one LM block

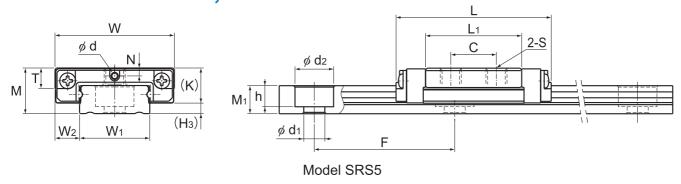
Total block length L

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 M1-499 or M1-520)

Note2) The basic load rating in the dimension table is for a load in the radial direction. Use Table7 on M1-60 to calculate the load rating for loads in the reverse radial direction or lateral direction.

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



	Oute	r dimen	sions			LM I	olock dir	mension	s			
Model No.	Height	Width	Length								Greasing hole	
	М	W	L	В	С	s×ℓ	L ₁	Т	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

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

+470L

With QZ Model No.

Contamination Lubricator protection accessory symbol (*2)

LM rail length (in mm)

Stainless steel LM rail

Symbol for No. of rails used on the same plane (*5)

No. of LM blocks used on the same rail (*1) Radial clearance symbol (*3) Normal (No symbol)/ Light preload (C1)

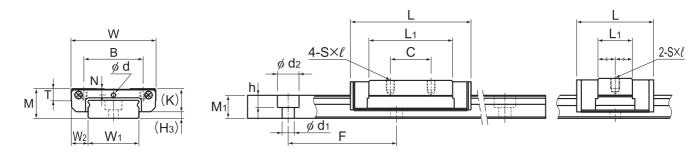
Accuracy symbol (*4)

Normal grade (No Sýmbol)/High accuracy grade (H) Precision grade (P)

(*1) No symbol for 1 LM block. (*2) See contamination protection accessories on **A1-524**. (*3) See **A1-72**. (*4) See **A1-84**. (*5) 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 r	ail din	nensi	ons		Basic rati		Static	permis	sible m	noment	N·m*	Ma	ISS
Width			Height	Pitch		Length*	С	C ₀	2 \	14	\ 		M _c	LM block	LM rail
W ₁	W_2	W ₃	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
10 0 -0.02	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 0 -0.02	3.5	_	4	20	3×5.5×3	220		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
$\begin{array}{cc} & 0 \\ & -0.02 \end{array}$	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
$14 \begin{array}{c} 0 \\ -0.02 \end{array}$	5.5		5.2	30	3.5×6×3.2	480	2.011.63	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
$14 \begin{array}{c} 0 \\ -0.02 \end{array}$	5.5		5.2	30	3.5×6×3.2	480	2.562.12	3.283.66	15.0 16.6	78.9 87.7	17.4 19.2	91.2 101	24.2 27	0.026	0.56
18 ⁰ -0.02	6	_	7.5	30	3.5×6×4.5	1430	2.031.73	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 ⁰ -0.02	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 0 -0.02	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
$24 \begin{array}{c} 0 \\ -0.02 \end{array}$	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 0 -0.02	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 0 -0.02	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

Note1) The maximum length under "Length * " indicates the standard maximum length of an LM rail. (See A1-164.) 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 A1-499 or A1-520)

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

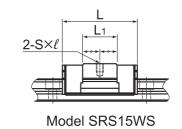
Note2) The basic load rating in the dimension table is for a load in the radial direction. Use Table7 on A1-60 to calculate the load rating for loads in the reverse radial direction or lateral direction.

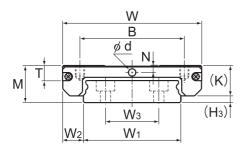
• Reference bolt tightening torque when mounting an LM block for model SRS 5 and 7W are shown in the table below. Reference tightening torque

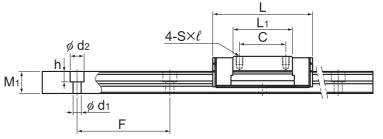
Model No.	Model No. of screw	Screw depth (mm)	Reference tightening torque(N·m)*
SRS 5W	M3	2.3	0.4
SRS 7W	M3	2.8	0.4

^{*}Tightening above the tightening torque affects accuracy. Be sure to tighten at or below the defi ned tightening torque.

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







Model SRS15WM/WN

	Outer	dimer	nsions				LM blo	ock din	nensior	าร				
Model No.	Height M	Width	Length	В	С	s×ℓ	L ₁	Т	К	N	E	Greasing hole	Grease nipple	Н₃
SRS 15WS SRS 15WGS	16	60	41.5	45	_	M4×4.5	24.9	6.5	13.3	3	<u> </u>	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		3	— РВ107	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

SRS15WM QZ UU C1 +550L

Model No. With QZ

Contamination protection Lubricator accessory

symbol (*2)

LM rail length (in mm)

Stainless steel LM rail

Symbol for No. of rails used on the same plane (*5)

No. of LM blocks used on the same rail (*1) Radial clearance symbol (*3) Normal (No symbol)/ Light preload (C1)

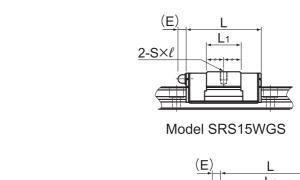
Accuracy symbol (*4)

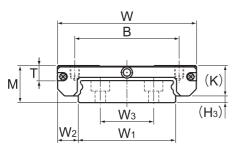
Normal grade (No Symbol)/High accuracy grade (H) Precision grade (P)

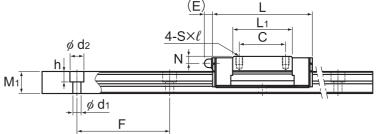
(*1) No symbol for 1 LM block. (*2) See contamination protection accessories on **A1-524**. (*3) See **A1-72**. (*4) See **A1-84**. (*5) See **A1-13**.

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.









Model SRS15WGM/WGN

Unit: mm

		LM r	ail din	nensi	ons		Basic rat	load ing	Static	permis	sible m	noment	N·m*	Ма	ISS
Width			Height	Pitch		Length*	C	Co		→			J	LM block	LM rail
W ₁	W_2	₩₃	M₁	F	$d_1 \times d_2 \times h$	Max	kN	kN		Double blocks		Double blocks	1 block	kg	kg/m
42 0 -0.02	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 0 -0.02	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 0 -0.02	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 **\(\Delta 1-164**.) 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 A1-499 or A1-520)

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 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.

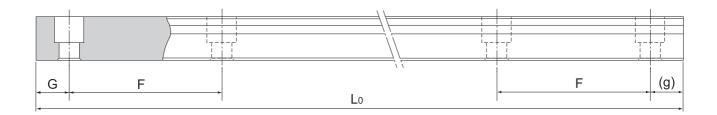


Table2 Standard Length and Maximum Length of the LM Rail for Model SRS

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 (L₀)	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

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.