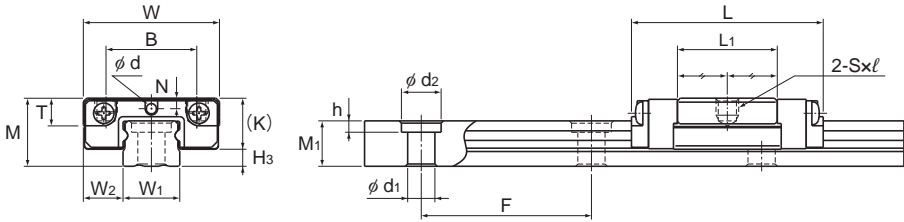


Models SRS-S, SRS-M and SRS-N



Model SRS5

Model No.	Outer dimensions			LM block dimensions								H ₃
	Height	Width	Length	B	C	S×ℓ	L ₁	T	K	N	Greasing hole d	
	M	W	L									
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
SRS 12M SRS 12GM	13	27	34.4	20	15	M3×3.2	20.6	5.7	11	3	2	2
SRS 12N SRS 12GN	13	27	47.1	20	20	M3×3.2	33.3	5.7	11	3	2	2

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

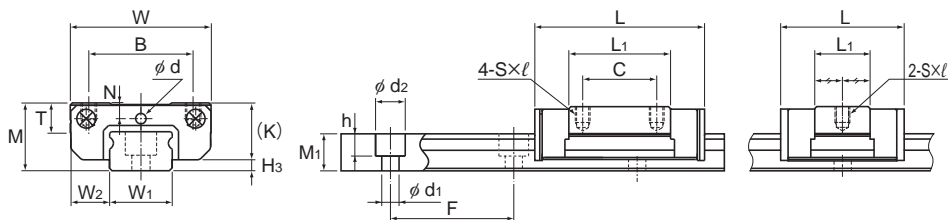
2 SRS12M QZ UU C1 +220L P M - II

2: Model No.
 SRS12M: With QZ Lubricator
 QZ: Contamination protection accessory symbol (*1)
 UU: Radial clearance symbol (*2)
 C1: Normal (No symbol)/Light preload (C1)
 +220L: LM rail length (in mm)
 P: Stainless steel LM rail
 M: Accuracy symbol (*3)
 - II: 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)
 Accuracy symbol (*3)
 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 SRS7M/N,9XM/XN,12M/N

Models SRS7S,9XS,12S
Unit: mm

LM rail dimensions						Basic load rating		Static permissible moment N-m*					Mass	
Width	Height	Pitch	Length*	C	C ₀	M _A		M _B		M _C	LM block	LM rail		
						1 block	Double blocks	1 block	Double blocks	1 block			kg	kg/m
W ₁	W ₂	M ₁	F	d ₁ × d ₂ × 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	0.468 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 ⁰ _{-0.02}	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 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 37.5	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 **A1-160**.)

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 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 **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 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 defined tightening torque.