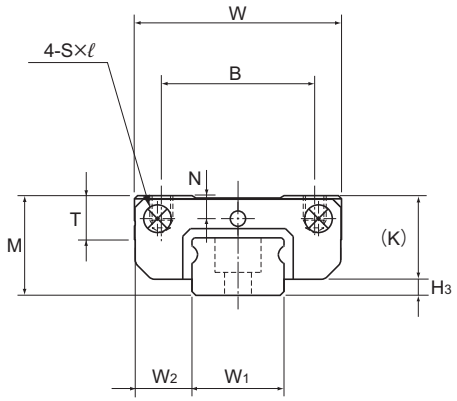
Models SRS-M and SRS-N



Model No.	Outer dimensions			LM block dimensions							
	Height	Width	Length								
	M	W	L	B	C	S×ℓ	L_1	T	K	N	H_3
SRS 7M	8	17	23.4	12	8	M2×2.3	13.4	3.3	6.7	1.6	1.3
SRS 9M SRS 9N	10	20	30.8 40.8	15	10 16	M3×2.8	19.8 29.8	4.9	9.1	2.4	0.9
SRS 12M SRS 12N	13	27	34.4 47.1	20	15 20	M3×3.2	20.6 33.3	5.7	11	3	2
SRS 15M SRS 15N	16	32	43 60.8	25	20 25	M3×3.5	25.7 43.5	6.5	13.3	3	2.7
SRS 20M	20	40	50	30	25	M4×6	34	9	16.6	4	3.4
SRS 25M	25	48	77	35	35	M6×7	56	11	20	5	5

Note) Since stainless steel is used in the LM block, LM rail and balls, these models are highly resistant to corrosion and environment.

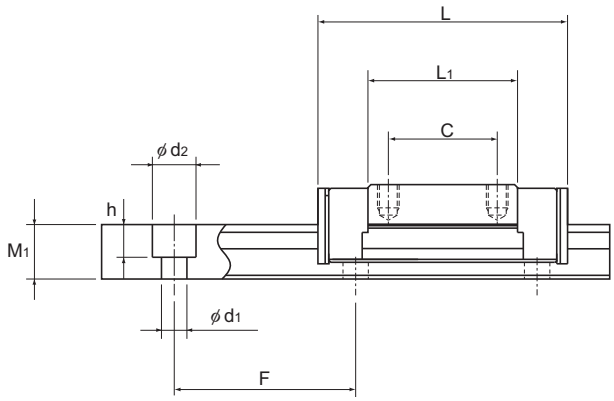
Model number coding

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

- **2**: No. of LM blocks used on the same rail
- **SRS20M**: Model number
- **QZ**: With QZ Lubricator
- **UU**: Contamination protection accessory symbol (*1)
- **C1**: Radial clearance symbol (*2) — Normal (No symbol), Light preload (C1)
- **+220L**: LM rail length (in mm)
- **P**: Accuracy symbol (*3) — 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 (*4)

(*1) See contamination protection accessory on **A1-510**. (*2) See **A1-70**. (*3) See **A1-83**. (*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.



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
	W_1	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
7	$^{0}_{-0.02}$	5	4.7	15	2.4×4.2×2.3	300	1.51	1.29	3.09	17.2	3.69	17.3	5.02	0.009	0.25
9	$^{0}_{-0.02}$	5.5	5.5	20	3.5×6×3.3	1000	2.69 3.48	2.31 3.34	7.82 15.5	43.9 81.4	9.03 17.9	50.8 94.3	10.6 15.3	0.016 0.027	0.32
12	$^{0}_{-0.02}$	7.5	7.5	25	3.5×6×4.5	1340	4 5.82	3.53 5.30	12 28.4	78.5 151	12 28.4	78.5 151	23.1 34.7	0.027 0.049	0.65
15	$^{0}_{-0.02}$	8.5	9.5	40	3.5×6×4.5	1430	6.66 9.71	5.7 8.55	26.2 59.7	154 312	26.2 59.7	154 312	40.4 60.7	0.047 0.095	0.96
20	$^{0}_{-0.03}$	10	11	60	6×9.5×8	1800	7.75	9.77	54.3	296	62.4	341	104	0.11	1.68
23	$^{0}_{-0.03}$	12.5	15	60	7×11×9	1800	16.5	20.2	177	932	177	932	248	0.24	2.6

Note) If a grease nipple is required, indicate "with grease nipple". (available for models SRS 15M/15N/15WM/15WN/20M/25M)
If a greasing hole is required, indicate "with greasing hole". (available for models SRS 7M/7WM/9M/9N/9WM/9WN/12M/12N/12WM/12WN).
The maximum length under "Length*" indicates the standard maximum length of an LM rail. (See A1-160.)
Static Permissible Moment*
1 block: static permissible moment value with 1 LMblock
Double blocks: static permissible moment value with 2 blocks closely contacting with each other

SRS-G (Full-ball Type) Basic Load Ratings

Model No.	Basic load rating C kN	Basic load rating C_0 kN
SRS 7GM	1.16	1.54
SRS 9GM	2.07	2.32
SRS 12GM	3.36	3.55
SRS 15GM	5.59	5.72
SRS 20GM	5.95	9.40
SRS 25GM	13.3	22.3

- Reference bolt tightening torque when mounting an LM block for model SRS 7M is shown in the table below.

Reference tightening torque

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

* Tightening above the tightening torque affects accuracy.
Be sure to tighten at or below the defined tightening torque.

Options⇒A1-473