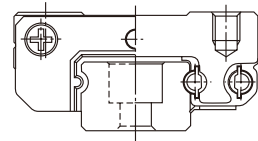
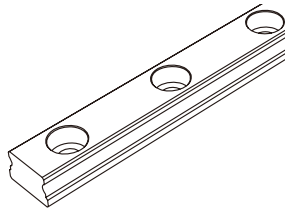
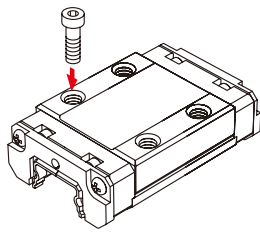


# GK Series

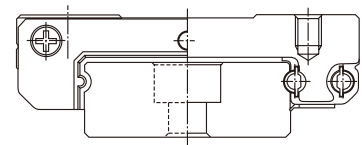
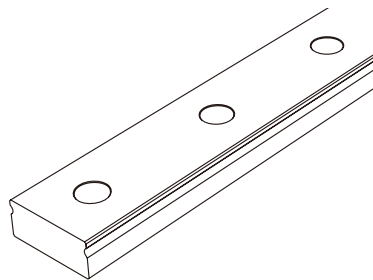
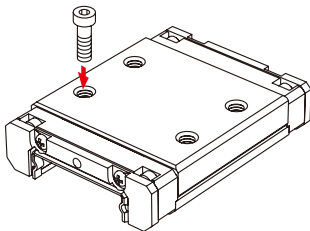
## Caged Ball LM Guide Miniature Model **SRS**


**Rails and Blocks are individually Stocked for Easy / Fast Interchangeability.**

### Compact Type : SRS-M / -GM



### Wide Type : SRS-WM / -WGM



**SRS-M/-WM** : With Ball Cage   
**SRS-GM/-WGM** : Full-ball

## Structure and Features

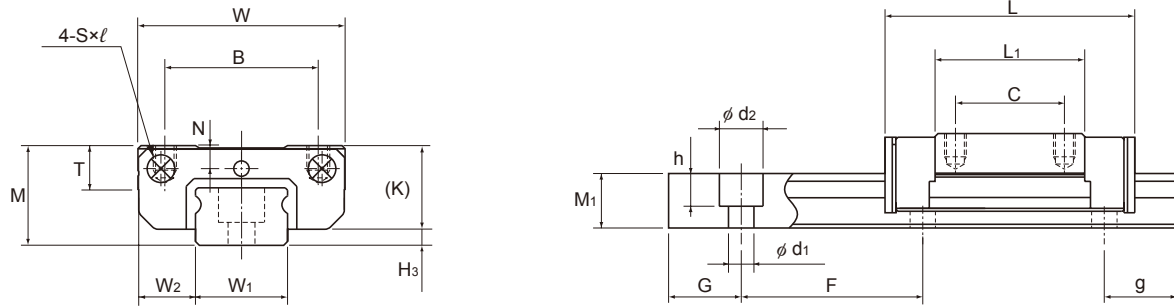
### Compact

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.

# Models SRS-M/GM



Unit: mm

Model No.	Outer dimensions			LM block dimensions							Basic load rating		Static permissible moment kN-m*					Mass	
	Height	Width	Length	B	C	S×ℓ	L <sub>1</sub>	T	K	N	C	C <sub>0</sub>	M <sub>A</sub>		M <sub>B</sub>		M <sub>C</sub>	LM block	LM rail
	M	W	L								kN	kN	1 block	Double blocks	1 block	Double blocks	1 block	kg	kg/m
SRS 9XM SRS 9XGM	10	20	30.8	15	10	M3×2.8	19.8	4.5	8.5	2.4	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
SRS 12M SRS 12GM	13	27	34.4	20	15	M3×3.2	20.6	5.7	11	3	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
SRS 15M SRS 15GM	16	32	43	25	20	M3×3.5	25.7	6.5	13.3	3	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

\*1 block: static permissible moment value with 1 LM block  
 Double blocks: static permissible moment value with 2 blocks closely contacting with each other

## SRS LM RAIL

LM rail dimensions

Unit: mm

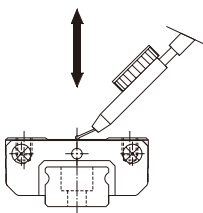
Model No.	H <sub>3</sub>	LM rail dimensions						Length (G,g)	Mass kg/m
		Width W <sub>1</sub> ±0.05	W <sub>2</sub>	Height M <sub>1</sub>	Pitch F	d <sub>1</sub> ×d <sub>2</sub> ×h			
SRS 9X	1.5	9 <sup>0</sup> <sub>-0.02</sub>	5.5	5.5	20	3.5×6 ×3.3		1000(10,10) 1200(15,15)	0.36
SRS 12	2	12 <sup>0</sup> <sub>-0.02</sub>	7.5	7.5	25	3.5×6 ×4.5		1000(12.5,12.5) 2000(12.5,12.5)	0.65
SRS 15	2.7	15 <sup>0</sup> <sub>-0.02</sub>	8.5	9.5	40	3.5×6 ×4.5		1000(20,20) 2000(20,20)	0.96

Please contact the LM rail length you need to your dealer

## Radial Clearance Standard

Radial clearance

Unit: μm



Model No.	Indication symbol	Normal	Light preload
	No Symbol	C1	
9		-2 to +2	-4 to 0
12		-3 to +3	-6 to 0
15		-5 to +5	-10 to 0

### Model number coding

With Ball Cage (Long Service Life and Long-term Maintenance-free Operation)

**SRS9X M 1 UU C1 H (GK) BLOCK**

Model number Type of LM block

GK series must be "1".

Accuracy symbol  
 Normal grade (No Symbol)  
 High accuracy grade (H)  
 Precision grade (P)

Radial clearance symbol  
 Normal (No symbol)  
 Light preload (C1)

Contamination protection accessory symbol  
 UU : With end seal  
 GK series must be "UU".

**SRS9 - 1200LM H (GK) RAIL**

Model number LM rail length (in mm)

GK series LM rail symbol

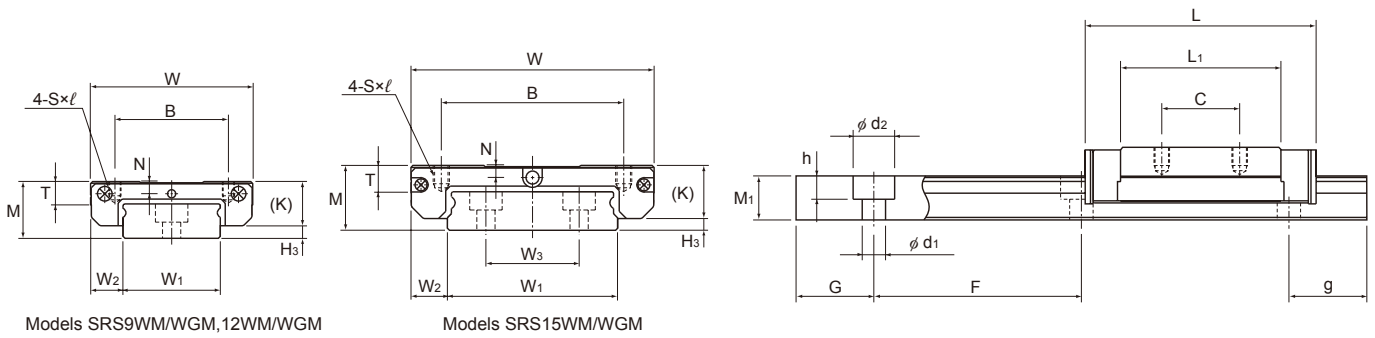
Accuracy symbol  
 Normal grade (No Symbol)  
 High accuracy grade (H)  
 Precision grade (P)

Without Ball Cage

**SRS9XG M UU C1 H (GK) BLOCK**

Full-ball Type

# Models SRS-WM/WGM



Unit: mm

Model No.	Outer dimensions			LM block dimensions							Basic load rating		Static permissible moment kN-m*						Mass	
	Height	Width	Length	B	C	S×ℓ	L <sub>1</sub>	T	K	N	C	C <sub>0</sub>	M <sub>A</sub>		M <sub>B</sub>		M <sub>C</sub>		LM block	LM rail
	M	W	L										1 block	Double blocks	1 block	Double blocks	1 block	Double blocks		
SRS 9WM SRS 9WGM	12	30	39	21	12	M3×2.8	27	4.9	9.1	2.3	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	
SRS 12WM SRS 12WGM	14	40	44.5	28	15	M3×3.5	30.9	5.7	11	3	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	
SRS 15WM SRS 15WGM	16	60	55.5	45	20	M4×4.5	38.9	6.5	13.3	3	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	

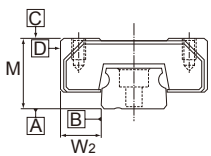
\*1 block: static permissible moment value with 1 LM block  
 Double blocks: static permissible moment value with 2 blocks closely contacting with each other

# SRS-W LM RAIL

Model No.	LM rail dimensions									Mass kg/m
	H <sub>3</sub>	LM rail dimensions							Length (G,g)	
		Width W <sub>1</sub> ±0.05	W <sub>2</sub>	W <sub>3</sub>	Height M <sub>1</sub>	Pitch F	d <sub>1</sub> ×d <sub>2</sub> ×h			
SRS 9W	2.9	18 <sup>0</sup> <sub>-0.02</sub>	6	—	7.5	30	3.5×6×4.5	1000(20,20)	1200(15,15)	1.01
SRS 12W	3	24 <sup>0</sup> <sub>-0.02</sub>	8	—	8.5	40	4.5×8×4.5	1000(20,20)	2000(25,25)	1.52
SRS 15W	2.7	42 <sup>0</sup> <sub>-0.02</sub>	9	23	9.5	40	4.5×8×4.5	1000(20,20)	2000(25,25)	2.87

Please contact the LM rail length you need to your dealer

# Accuracy Standards



Model No.	Accuracy standards Item	Accuracy standards		
		Normal grade	Highaccuracy grade	Precision grade
		No Symbol	H	P
9	Dimensional tolerance in height M	±0.04	±0.02	±0.01
	Difference in height M	0.03	0.015	0.007
12	Dimensional tolerance in width W <sub>2</sub>	±0.04	±0.025	±0.015
	Difference in width W <sub>2</sub>	0.03	0.02	0.01
15	Running parallelism of surface C against surface A	as shown in the table on the right		
	Running parallelism of surface D against surface B	as shown in the table on the right		

LM rail length [mm]	Running Parallelism Values[μm]		
	Normal grade	Highaccuracy grade	Precision grade
	1000	25	16
1200	26	17	6
2000	28	19	8

## Model number coding

With Ball Cage (Long Service Life and Long-term Maintenance-free Operation)

**SRS9 WM 1 UU C1 H (GK) BLOCK**

Model number Type of LM block

GK series must be "1".

Accuracy symbol  
 Normal grade (No Symbol)  
 High accuracy grade (H)  
 Precision grade (P)

Radial clearance symbol  
 Normal (No symbol)  
 Light preload (C1)

Contamination protection accessory symbol  
 UU : With end seal  
 GK series must be "UU".

GK series LM block symbol

**SRS9W - 1000LM H (GK) RAIL**

Model number LM rail length (in mm)

GK series LM rail symbol

Accuracy symbol  
 Normal grade (No Symbol)  
 High accuracy grade (H)  
 Precision grade (P)

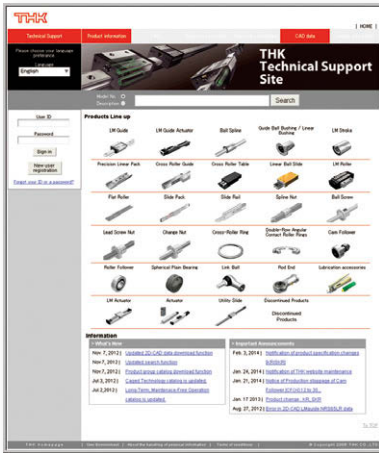
Without Ball Cage

**SRS9G WM UU C1 H (GK) BLOCK**

Full-ball Type

## Technical Support Site

The THK Technical Support Site lets you access product information and technical support online. You will also find a search feature for locating desired products and a calculation feature for calculating service life. 2D-CAD and 3D-CAD data are also downloadable.



Product Information

CAD Data

Technical Calculation

Technical Information

Catalog Information

FAQ

<https://tech.thk.com/> or

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