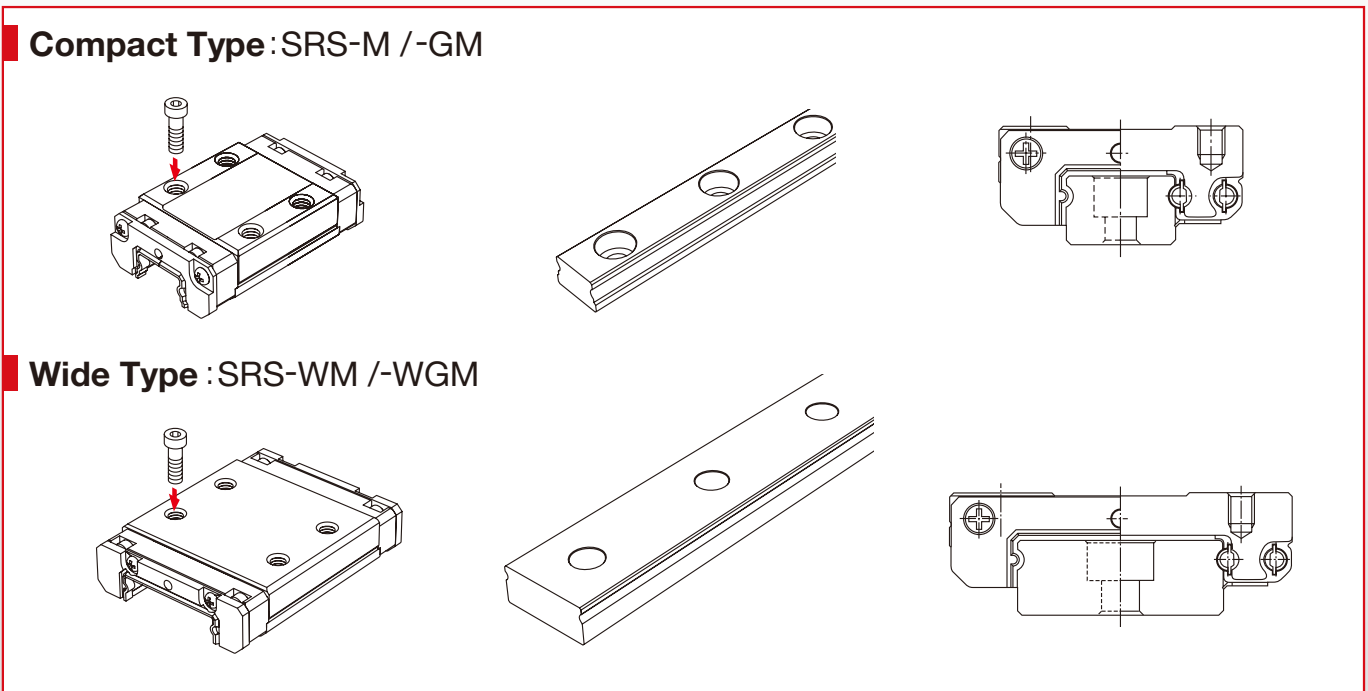



GK Series

Caged Ball LM Guide Miniature Model **SRS**

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



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

Structure and Features

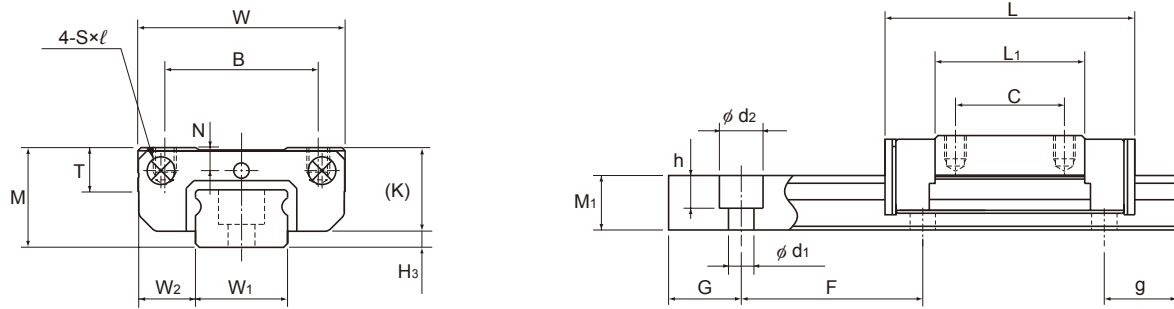
Compact

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 ₁	T	K	N	C	C ₀	M _A		M _B		M _C	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

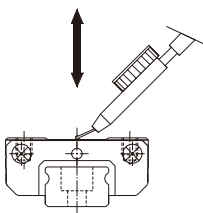
Model No.	H ₃	LM rail dimensions							Mass kg/m
		Width W ₁ ±0.05	W ₂	Height M ₁	Pitch F	d ₁ ×d ₂ ×h	Length (G,g)		
SRS 9X	1.5	9 ⁰ _{-0.02}	5.5	5.5	20	3.5×6 ×3.3	1000(10,10)	1200(15,15)	0.36
SRS 12	2	12 ⁰ _{-0.02}	7.5	7.5	25	3.5×6 ×4.5	1000(12.5,12.5)	2000(12.5,12.5)	0.65
SRS 15	2.7	15 ⁰ _{-0.02}	8.5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

GK series LM block symbol

SRS9 - 1200LM H (GK) RAIL

Model number LM rail length (in mm)

GK series LM rail symbol

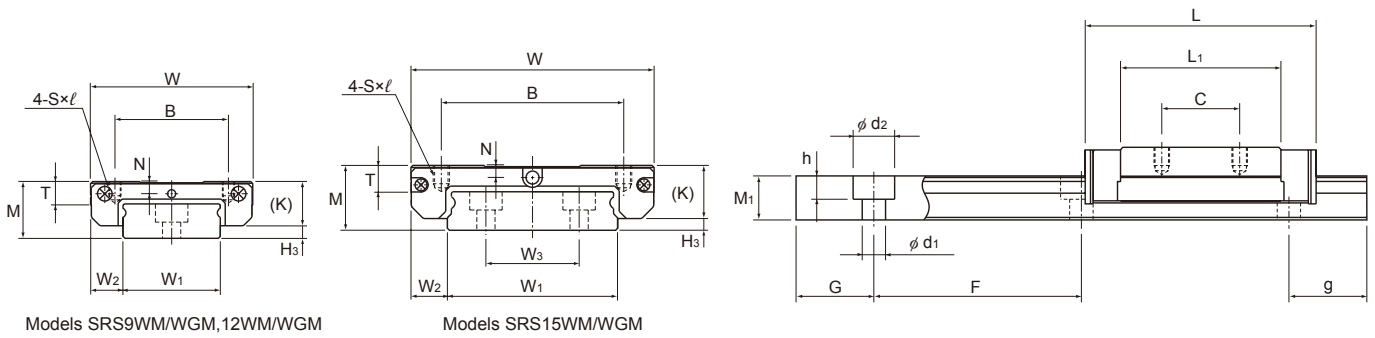
Accuracy symbol
Normal grade (No Symbol)
High accuracy grade (H)
Precision grade (P)

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 M	Width W	Length L	B	C	S×ℓ	L ₁	T	K	N	C kN	C ₀ kN	M _A		M _B		M _C		LM block kg	LM rail kg/m
													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	

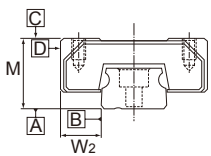
*1 block: static permissible moment value with 1 LM block
 Double blocks: static permissible moment value with 2 blocks closely contacting with each other

SRS-W LM RAIL

Model No.	H ₃	LM rail dimensions								Mass kg/m
		LM rail dimensions								
		Width W ₁ ±0.05	W ₂	W ₃	Height M ₁	Pitch F	d ₁ ×d ₂ ×h	Length (G,g)		
SRS 9W	2.9	18 ⁰ _{-0.02}	6	—	7.5	30	3.5×6×4.5	1000(20,20)	1200(15,15)	1.01
SRS 12W	3	24 ⁰ _{-0.02}	8	—	8.5	40	4.5×8×4.5	1000(20,20)	2000(25,25)	1.52
SRS 15W	2.7	42 ⁰ _{-0.02}	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 ₂	±0.04	±0.025	±0.015
	Difference in width W ₂	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".

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)

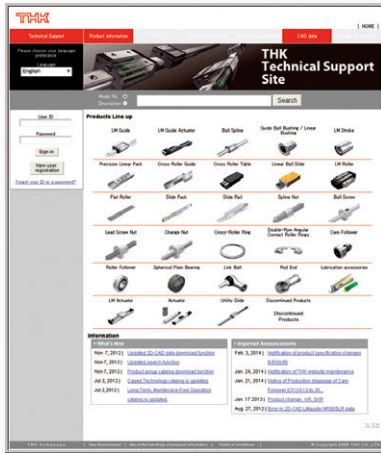
Without Ball Cage

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

Please access THK website for contact information.

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