

RSH-Z

LM Guide

B Product Specifications

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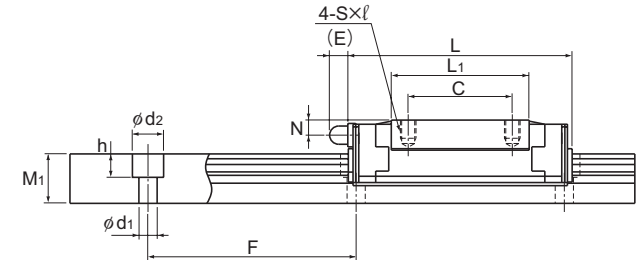
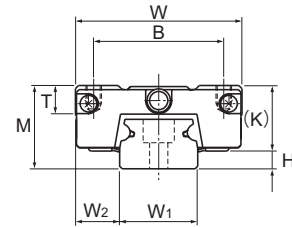
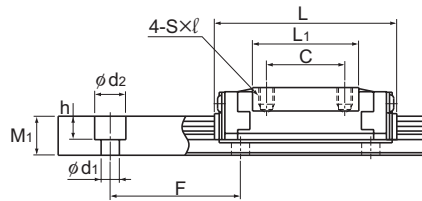
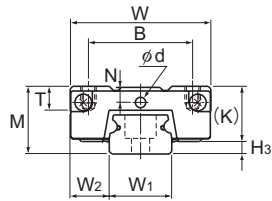
A Technical Descriptions of the Products (Separate)

Technical Descriptions

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* Please see the separate "A Technical Descriptions of the Products".

Model RSH-ZM



Models RSH7 to 12ZM

Model RSH15ZM

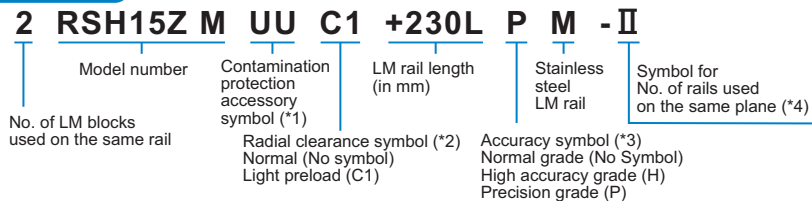
Unit: mm

Model No.	Outer dimensions			LM block dimensions										H ₃	LM rail dimensions					Basic load rating		Static permissible moment N·m*					Mass		
	Height	Width	Length	B	C	S×ℓ	L ₁	T	K	N	E	Greas- ing hole d	Grease nipple		Width	Height	Pitch	Length*	C	C ₀	M _A		M _B		M _C	LM block	LM rail		
	M	W	L												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
RSH 7ZM	8	17	23.4	12	8	M2×2.5	13.2	3.4	6.5	1.6	—	1.5	—	1.5	7 ⁰ _{-0.02}	5	4.7	15	2.4×4.2×2.3	300	0.88	1.37	2.93	20.7	2.93	20.7	5	0.008	0.23
RSH 9ZM	10	20	30.8	15	10	M3×2.8	19.4	4.6	7.8	2.4	—	1.6	—	2.2	9 ⁰ _{-0.02}	5.5	5.5	20	3.5×6×3.3	1000	1.47	2.25	7.34	43	7.34	43	10.4	0.014	0.32
RSH 12ZM	13	27	35	20	15	M3×3.2	20.4	4.5	10.6	3.1	—	2	—	2.4	12 ⁰ _{-0.025}	7.5	7.5	25	3.5×6×4.5	1340	2.65	4.02	11.4	74.9	10.1	67.7	19.2	0.028	0.58
RSH 15ZM	16	32	43	25	20	M3×3.5	26.5	5.5	12.6	2.9	3.6	—	PB107	3.4	15 ⁰ _{-0.025}	8.5	9.5	40	3.5×6×4.5	1430	4.41	6.57	23.7	149	21.1	135	38.8	0.05	0.925

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

Note) The maximum length under "Length*" indicates the standard maximum length of an LM rail. (See B-136.)
 Static permissible moment*: 1 block: static permissible moment value with 1 LM block
 Double blocks: static permissible moment value with 2 blocks closely contacting with each other

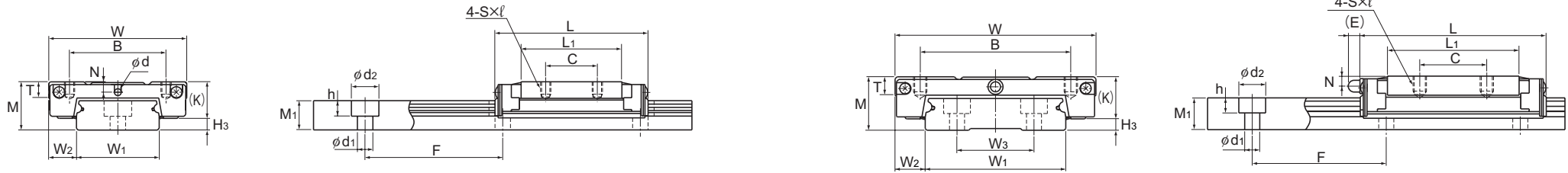
Model number coding



(*1) See contamination protection accessory on A-368. (*2) See A-114. (*3) See A-126. (*4) See A-59.

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.)

Model RSH-WZM



Models RSH7 to 12WZM

Model RSH15WZM

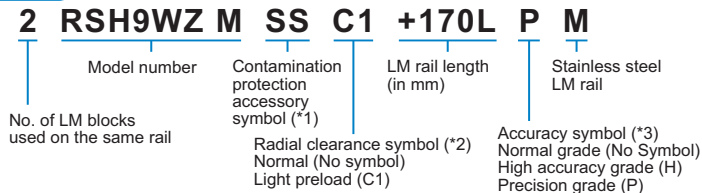
Unit: mm

Model No.	Outer dimensions			LM block dimensions										H ₃	LM rail dimensions						Basic load rating		Static permissible moment N-m*					Mass		
	Height	Width	Length	B	C	S×l	L ₁	T	K	N	E	Greas-ing hole	Grease nipple		Width	Height	Pitch	Length*	C	C ₀	M _A		M _B		M _C	LM block	LM rail			
	M	W	L									d			W ₁	W ₂	W ₃	M ₁	F	d ₁ ×d ₂ ×h	Max	kN	kN	1 block	Double blocks	1 block	Double blocks	1 block	kg	kg/m
RSH 7WZM	9	25	31.5	19	10	M3×2.5	19.7	3.4	7	1.8	—	1.5	—	2	14 ⁰ _{-0.05}	5.5	—	5.2	30	3.5×6×3.2	400	1.37	2.16	6.54	42.1	6.54	42.1	15.4	0.018	0.51
RSH 9WZM	12	30	39	21	12	M3×2.8	27	3.9	9.1	2.3	—	1.6	—	2.9	18 ⁰ _{-0.05}	6	—	7.5	30	3.5×6×4.5	1000	2.45	3.92	16	92.9	16	92.9	36	0.03	1.08
RSH 12WZM	14	40	44.5	28	15	M3×3.6	29.3	4.5	10.6	3	—	2	—	3.4	24 ⁰ _{-0.05}	8	—	8.5	40	4.5×8×4.5	1430	4.02	6.08	24.5	138	21.7	123	59.5	0.06	1.5
RSH 15WZM	16	60	55.5	45	20	M4×4.5	39.3	5.4	12.6	3	3.6	—	PB107	3.4	42 ⁰ _{-0.05}	9	23	9.5	40	4.5×8×4.5	1800	6.66	9.8	50.3	278	44.4	248	168	0.135	3

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

Note) The maximum length under "Length*" indicates the standard maximum length of an LM rail. (See B-136.)
 Static permissible moment*: 1 block: static permissible moment value with 1 LM block
 Double blocks: static permissible moment value with 2 blocks closely contacting with each other

Model number coding



(*1) See contamination protection accessory on A-368. (*2) See A-114. (*3) See A-126.

Standard Length and Maximum Length of the LM Rail

Table1 shows the standard lengths and the maximum lengths of model RSH-Z/WZ variations.

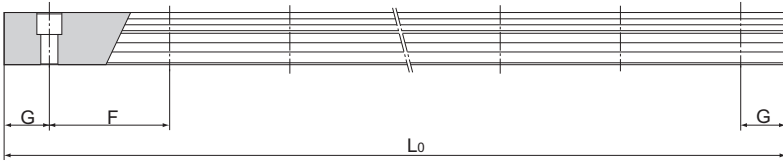


Table1 Standard Length and Maximum Length of the LM Rail for Model RSH-Z/WZ

Unit: mm

Model No.	RSH 7Z	RSH 9Z	RSH 12Z	RSH 15Z	RSH 7WZ	RSH 9WZ	RSH 12WZ	RSH 15WZ
LM rail standard length (L_0)	40	55	70	70	50	50	70	110
	55	75	95	110	80	80	110	150
	70	95	120	150	110	110	150	190
	85	115	145	190	140	140	190	230
	100	135	170	230	170	170	230	270
	130	155	195	270	200	200	270	310
		175	220	310	260	260	310	430
		195	245	350	290	290	390	550
		275	270	390		320	470	670
		375	320	430			550	790
			370	470				
		470	550					
		570	670					
			870					
Standard pitch F	15	20	25	40	30	30	40	40
G	5	7.5	10	15	10	10	15	15
Max length	300	1000	1340	1430	400	1000	1430	1800

Note) The maximum length varies with accuracy grades. Contact THK for details.