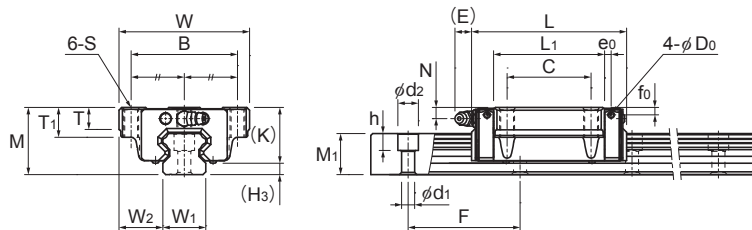


Models HSR-CA, HSR-CAM, HSR-HA, HSR-HAM, HSR-XCA, and HSR-XHA



Models HSR20 to 35CA/HA/CAM/HAM

Model No.	Outer dimensions			LM block dimensions													Pilot hole for side nipple			
	Height	Width	Length	B	C	S	L ₁	t	T	T ₁	K	N	E	Grease nipple	e ₀	f ₀	D ₀	H ₃		
	M	W	L																	
HSR 20CA HSR 20CAM	30	63	74	53	40	M6	50.8	—	9.5	10	26	5	12	B-M6F	3.1	3.4	3	4		
HSR 20HA HSR 20HAM	30	63	90	53	40	M6	66.8	—	9.5	10	26	5	12	B-M6F	3.1	3.4	3	4		
HSR 25CA HSR 25CAM	36	70	83.1	57	45	M8	59.5	—	11	16	30.5	6	12	B-M6F	3.5	4	3	5.5		
HSR 25HA HSR 25HAM	36	70	102.2	57	45	M8	78.6	—	11	16	30.5	6	12	B-M6F	3.5	4	3	5.5		
HSR 30CA HSR 30CAM	42	90	98	72	52	M10	70.4	—	9	18	35	7	12	B-M6F	5.2	6.2	5.2	7		
HSR 30HA HSR 30HAM	42	90	120.6	72	52	M10	93	—	9	18	35	7	12	B-M6F	5.2	6.2	5.2	7		
HSR 35CA HSR 35CAM	48	100	109.4	82	62	M10	80.4	—	12	21	40.5	8	12	B-M6F	5.5	5.6	5.2	7.5		
HSR 35HA HSR 35HAM	48	100	134.8	82	62	M10	105.8	—	12	21	40.5	8	12	B-M6F	5.5	5.6	5.2	7.5		
HSR 45CA HSR 45HA	60	120	139 170.8	100	80	M12	98 129.8	25	13	15	50	10	16	B-PT1/8	6.1	6.6	5.2	10		
HSR 55CA HSR 55HA	70	140	163 201.1	116	95	M14	118 156.1	29	13.5	17	57	11	16	B-PT1/8	5.6	7.7	5.2	13		
HSR 65XCA HSR 65XHA	90	170	190.5 250	142	110	M16	138.5 198	37	21.5	23	76	19	16	B-PT1/8	6.8	14.6	5.2	14		
HSR 85CA HSR 85HA	110	215	245.6 303	185	140	M20	178.6 236	55	28	30	94	23	16	B-PT1/8	—	—	—	16		

Model number coding

HSR25 HA 2 QZ KKHH C0 M +1300L P T M -II

Model
number

Type of
LM block

No. of LM blocks
used on the same
rail

With QZ
Lubricator

Contamination
protection
accessory
symbol (*1)

Radial clearance symbol (*2)
Normal (No symbol)
Light preload (C1)
Medium preload (C0)

Stainless steel
LM block

LM rail length
(in mm)

Accuracy symbol (*3)
Normal grade (No Symbol)
High accuracy grade (H)
Precision grade (P)
Super precision grade (SP)
Ultra precision grade (UP)

Stainless
steel
LM rail

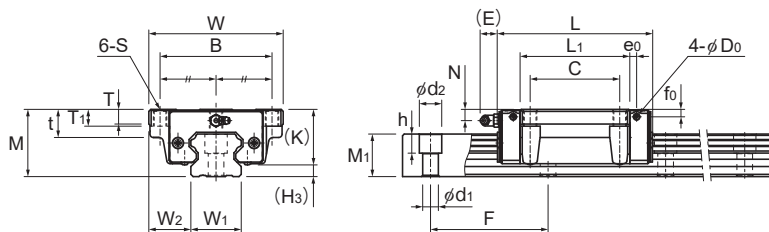
Symbol
for LM rail
jointed use

Symbol for
No. of rails used
on the same
plane (*4)

(*1) See contamination protection accessory on **A1-543**. (*2) See **A1-74**. (*3) See **A1-79**. (*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 HSR45 to 85CA/HA/XCA/XHA

Unit: mm

LM rail dimensions							Basic load rating		Static permissible moment $\text{kN}\cdot\text{m}^*$						Mass	
Width		Height	Pitch		Length*		C	C ₀	M_A		M_B		M_C		LM block	LM rail
W_1 ± 0.05	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	Double blocks	kg	kg/m
20	21.5	18	60	$6 \times 9.5 \times 8.5$	3000 (1480)	19.8	27.4		0.218	1.2	0.218	1.2	0.235	1.2	0.35	2.3
20	21.5	18	60	$6 \times 9.5 \times 8.5$	3000 (1480)	23.9	35.8		0.363	1.87	0.363	1.87	0.307	1.87	0.47	2.3
23	23.5	22	60	$7 \times 11 \times 9$	3000 (2020)	27.6	36.4		0.324	1.8	0.324	1.8	0.366	1.8	0.59	3.3
23	23.5	22	60	$7 \times 11 \times 9$	3000 (2020)	35.2	51.6		0.627	3.04	0.627	3.04	0.518	3.04	0.75	3.3
28	31	26	80	$9 \times 14 \times 12$	3000 (2520)	40.5	53.7		0.599	3.1	0.599	3.1	0.652	3.1	1.1	4.8
28	31	26	80	$9 \times 14 \times 12$	3000 (2520)	48.9	70.2		0.995	4.89	0.995	4.89	0.852	4.89	1.3	4.8
34	33	29	80	$9 \times 14 \times 12$	3000 (2520)	53.9	70.2		0.895	4.51	0.895	4.51	1.05	4.51	1.6	6.6
34	33	29	80	$9 \times 14 \times 12$	3000 (2520)	65	91.7		1.49	7.13	1.49	7.13	1.37	7.13	2	6.6
45	37.5	38	105	$14 \times 20 \times 17$	3090	82.2 100	101 135		1.5 2.59	8.37 13.4	1.5 2.59	8.37 13.4	1.94 2.6	8.37 13.4	2.8 3.3	11
53	43.5	44	120	$16 \times 23 \times 20$	3060	121 148	146 194		2.6 4.46	14.1 22.7	2.6 4.46	14.1 22.7	3.43 4.56	14.1 22.7	4.5 5.7	15.1
63	53.5	53	150	$18 \times 26 \times 22$	3000	195 249	228 323		5.08 9.81	25 45.6	5.08 9.81	25 45.6	6.2 8.79	25 45.6	8.5 10.7	22.5
85	65	65	180	$24 \times 35 \times 28$	3000	304 367	355 464		10.2 16.9	51.2 81	10.2 16.9	51.2 81	12.8 16.7	51.2 81	17 23	35.2

Note) The maximum length under "Length*" indicates the standard maximum length of an LM rail. (See **A1-204**.)

Static permissible moment* 1 block: the static permissible moment with one LM block

Total block length L Double blocks: static permissible moment when two LM blocks are in close contact with each other
: 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 **A1-517** or **A1-539**)

The M in the model number symbol indicates that the LM block, LM rail and balls are made of stainless steel.
The stainless steel provides excellent corrosion and environmental resistance.