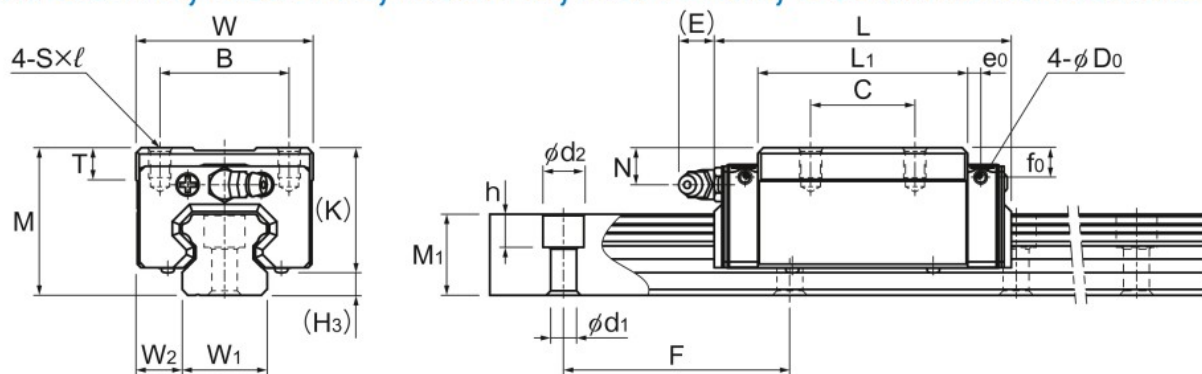


Models HSR-R, HSR-RM, HSR-LR, HSR-LRM, HSR-XR and HSR-XLR



Models HSR15 to 35R/LR/RM/LRM

Model No.	Outer dimensions			LM block dimensions									Pilot hole for side nipple			H ₃
	Height	Width	Length	B	C	S×ℓ	L ₁	T	K	N	E	Grease nipple	e ₀	f ₀	D ₀	
	M	W	L													
HSR 15R HSR 15RM	28	34	56.6	26	26	M4×5	38.8	6	23.3	8.3	5.5	PB1021B	3.2	7.9	3	4.7
HSR 15LR HSR 15LRM	28	34	74.6	26	34	M4×5	56.8	6	23.3	8.3	5.5	PB1021B	3.2	7.9	3	4.7
HSR 20R HSR 20RM	30	44	74	32	36	M5×6	50.8	8	26	5	12	B-M6F	3.1	3.4	3	4
HSR 20LR HSR 20LRM	30	44	90	32	50	M5×6	66.8	8	26	5	12	B-M6F	3.1	3.4	3	4
HSR 25R HSR 25RM	40	48	83.1	35	35	M6×8	59.5	9	34.5	10	12	B-M6F	3.5	8	3	5.5
HSR 25LR HSR 25LRM	40	48	102.2	35	50	M6×8	78.6	9	34.5	10	12	B-M6F	3.5	8	3	5.5
HSR 30R HSR 30RM	45	60	98	40	40	M8×10	70.4	9	38	10	12	B-M6F	5.2	9.2	5.2	7
HSR 30LR HSR 30LRM	45	60	120.6	40	60	M8×10	93	9	38	10	12	B-M6F	5.2	9.2	5.2	7
HSR 35R HSR 35RM	55	70	109.4	50	50	M8×12	80.4	11.7	47.5	15	12	B-M6F	5.5	12.6	5.2	7.5
HSR 35LR HSR 35LRM	55	70	134.8	50	72	M8×12	105.8	11.7	47.5	15	12	B-M6F	5.5	12.6	5.2	7.5
HSR 45R HSR 45LR	70	86	139 170.8	60	60 80	M10×17	98 129.8	15	60	20	16	B-PT1/8	6.1	16.6	5.2	10
HSR 55R HSR 55LR	80	100	163 201.1	75	75 95	M12×18	118 156.1	20.5	67	21	16	B-PT1/8	5.6	17.7	5.2	13
HSR 65XR HSR 65XLR	90	126	190.5 250	76	70 120	M16×20	138.5 198	23	76	19	16	B-PT1/8	6.8	14.6	5.2	14
HSR 65R HSR 65LR	90	126	186 245.5	76	70 120	M16×20	147 206.5	23	76	19	16	B-PT1/8	—	—	—	14
HSR 85R HSR 85LR	110	156	245.6 303	100	80 140	M18×25	178.6 236	29	94	23	16	B-PT1/8	—	—	—	16

Model number coding

HSR35 R 2 QZ SS C0 M +1400L P T M - II

Model
number

Type of
LM block

With QZ
Lubricator

Contamination
protection
accessory
symbol (*1)

Stainless steel
LM block

LM rail length
(in mm)

Stainless steel
LM rail
Symbol for
LM rail jointed use

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

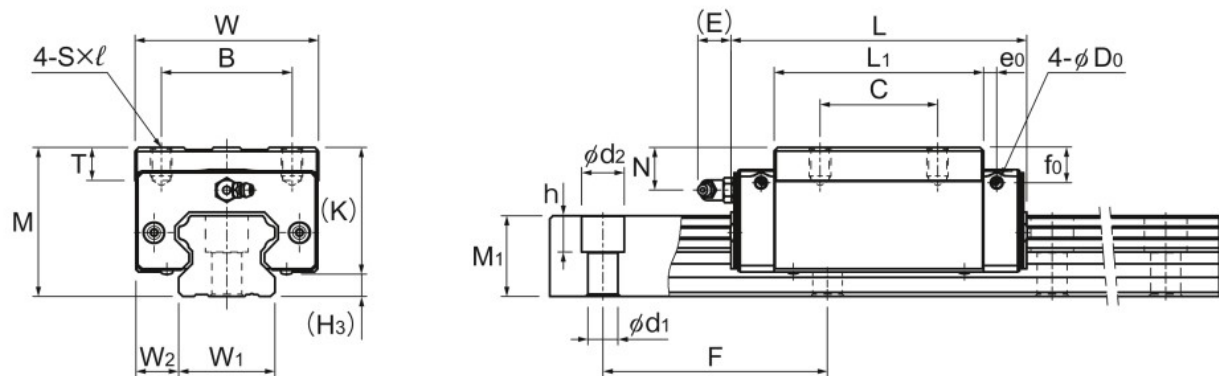
No. of LM blocks
used on the same
rail

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

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

(*1) See contamination protection accessory on **A1-524**. (*2) See **A1-73**. (*3) See **A1-78**. (*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 85R/LR/XR/XLR

Unit: mm

LM rail dimensions							Basic load rating		Static permissible moment kN·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 × d ₂ × h	Max	kN	kN		1 block	Double blocks	1 block	Double blocks	1 block	kg	kg/m
15	9.5	15	60	4.5 × 7.5 × 5.3	3000 (1240)	10.9	15.7		0.0945	0.527	0.0945	0.527	0.0998	0.18	1.5
15	9.5	15	60	4.5 × 7.5 × 5.3	3000 (1240)	14.2	22.9		0.194	0.984	0.194	0.984	0.145	0.26	1.5
20	12	18	60	6 × 9.5 × 8.5	3000 (1480)	19.8	27.4		0.218	1.2	0.218	1.2	0.235	0.25	2.3
20	12	18	60	6 × 9.5 × 8.5	3000 (1480)	23.9	35.8		0.363	1.87	0.363	1.87	0.307	0.35	2.3
23	12.5	22	60	7 × 11 × 9	3000 (2020)	27.6	36.4		0.324	1.8	0.324	1.8	0.366	0.54	3.3
23	12.5	22	60	7 × 11 × 9	3000 (2020)	35.2	51.6		0.627	3.04	0.627	3.04	0.518	0.67	3.3
28	16	26	80	9 × 14 × 12	3000 (2520)	40.5	53.7		0.599	3.1	0.599	3.1	0.652	0.9	4.8
28	16	26	80	9 × 14 × 12	3000 (2520)	48.9	70.2		0.995	4.89	0.995	4.89	0.852	1.1	4.8
34	18	29	80	9 × 14 × 12	3000 (2520)	53.9	70.2		0.895	4.51	0.895	4.51	1.05	1.5	6.6
34	18	29	80	9 × 14 × 12	3000 (2520)	65	91.7		1.49	7.13	1.49	7.13	1.37	2	6.6
45	20.5	38	105	14 × 20 × 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	2.6 3.1	2.6 3.1	11
53	23.5	44	120	16 × 23 × 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	4.3 5.4	4.3 5.4	15.1
63	31.5	53	150	18 × 26 × 22	3000	195 249	228 323	5.08 9.81	25 45.6	5.08 9.81	25 45.6	6.2 8.79	7.3 9.7	7.3 9.7	22.5 22.5
63	31.5	53	150	18 × 26 × 22	3000	195 249	228 323	5.08 9.81	25 45.6	5.08 9.81	25 45.6	6.2 8.79	7.3 9.3	7.3 9.3	22.5 22.5
85	35.5	65	180	24 × 35 × 28	3000	304 367	355 464	10.2 16.9	51.2 81	10.2 16.9	51.2 81	12.8 16.7	13 16	13 16	35.2

Note) The maximum length under "Length*" indicates the standard maximum length of an LM rail. (See **A1-206**.)

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

Double blocks: static permissible moment when two LM blocks are in close contact with each other
Overall block length dimension (L) The overall block lengths (L) in the dimension table are for when the contamination protection accessory symbol is UU or SS. The overall block length (L) will increase if another contamination protection accessory or lubricator is attached.

(See **A1-499** or **A1-520**)

An "M" in the model number indicates the material of the LM block, LM rail, or balls are stainless steel.

Stainless steel products have superior corrosion resistance and environmental resistance.

*The diagram shows the side nipple pilot holes for when a grease nipple is desired for a product with LaCS or a QZ Lubricator. In all other cases, the side nipple pilot holes will not be through holes.

Consult with THK if you desire drilling for grease nipple mounting.