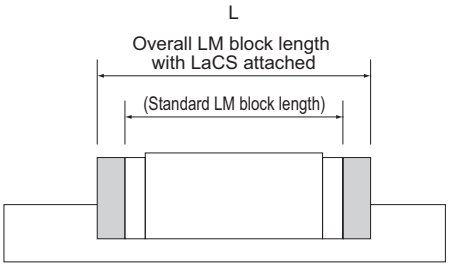
LM Guide
Options

Dimensions of Each Model with an Option Attached

The LM Block Dimension (Dimension L) with LaCS and Seals Attached



Unit: mm

Model No.		Standard overall length	L								
			UU	SS	DD	ZZ	KK	SSHH	DDHH	ZZHH	KKHH
SHS	15C/V/R	64.4	64.4	64.4	69.8	66.8	72.2	78.6	84	79.8	85.2
	15LC/LV	79.4	79.4	79.4	84.8	81.8	87.2	93.6	99	94.8	100.2
	20C/V	79	79	79	85.4	83	89.4	93.6	100	96	102.4
	20LC/LV	98	98	98	104.4	102	108.4	112.6	119	115	121.4
	25C/V/R	92	92	92	101.6	100.4	107.6	112	119.2	114.4	121.6
	25LC/LV/LR	109	109	109	118.6	117.4	124.6	129	136.2	131.4	138.6
	30C/V/R	106	106	106	116	113.8	122.4	129.4	138	131.8	140.4
	30LC/LV/LR	131	131	131	141	138.8	147.4	154.4	163	156.8	165.4
	35C/V/R	122	122	122	134.8	132.4	142.2	148	157.8	150.4	160.2
	35LC/LV/LR	152	152	152	164.8	162.4	172.2	178	187.8	180.4	190.2
	45C/V/R	140	140	140	152.8	151.2	161	169	178.8	172.2	182
	45LC/LV/LR	174	174	174	186.8	185.2	195	203	212.8	206.2	216
	55C/V/R	171	171	171	186.6	184.2	195.4	202	213.2	205.2	216.4
	55LC/LV/LR	213	213	213	228.6	226.2	237.4	244	255.2	247.2	258.4
	65C/V	221	221	221	238.6	236.2	248.6	258	270.4	261.2	273.6
	65LC/LV	272	272	272	289.6	287.2	299.6	309	321.4	312.2	324.6
SSR	15XVY	40.3	40.3	40.3	47.3	44.9	50.7	59.5	65.3	60.7	66.5
	15XWY/XTBY	56.9	56.9	56.9	63.9	61.5	67.3	76.1	81.9	77.3	83.1
	20XV	47.7	47.7	47.7	54.6	53.4	60.3	67.7	74.6	70.1	77
	20XW/XTB	66.5	66.5	66.5	73.4	72.2	79.1	86.5	93.4	88.9	95.8
	25XVY	60	60	60	67.4	65.7	73.1	80	87.4	82.4	89.8
	25XWY/XTBY	83	83	83	90.4	88.7	96.1	103	110.4	105.4	112.8
	30XW	97	97	97	105.1	102.7	110.8	121	129.1	123.4	131.5
	35XW	110.9	110.9	110.9	119.9	117.7	126.7	136.9	145.9	139.3	148.3
SNR/ SNS	25R/C	82.8	82.8	82.8	90.4	89.2	96.8	100.1	107.7	102.5	110.1
	25LR/LC	102	102	102	109.6	108.4	116	119.3	126.9	121.7	129.3
	30R/C	98	98	98	107.8	104.4	114.2	118.5	128.3	120.9	130.7
	30LR/LC	120.5	120.5	120.5	130.3	126.9	136.7	141	150.8	143.4	153.2
	35R/C	109.5	109.5	109.5	119.7	117.1	127.3	131.1	141.3	133.5	143.7
	35LR/LC	135	135	135	145.2	142.6	152.8	156.6	166.8	159	169.2
	45R/C	138.2	138.2	138.2	148.4	146.6	156.8	163.2	173.4	166.4	176.6
	45LR/LC	171	171	171	181.2	179.4	189.6	196	206.2	199.2	209.4
	55R/C	163.3	163.3	163.3	172.7	171.1	181.3	187.8	198	191	201.2
	55LR/LC	200.5	200.5	200.5	209.9	208.3	218.5	225	235.2	228.2	238.4

Unit: mm

Model No.		Standard overall length	L								
			UU	SS	DD	ZZ	KK	SSHH	DDHH	ZZHH	KKHH
SNR/ SNS	65R/C	186	186	186	196.2	194.2	204.8	214.3	224.9	217.5	228.1
	65LR/LC	246	246	246	256.2	254.2	264.8	274.3	284.9	277.5	288.1
	85LR/LC	302.8	302.8	302.8	313.8	311.8	322.8	—	—	—	—
SHW	12CAM/CRM	37	37	37	—	—	—	—	—	—	—
	12HRM	50.4	50.4	50.4	—	—	—	—	—	—	—
	14CAM/CRM	45.5	45.5	45.5	—	—	—	—	—	—	—
	17CAM/CRM	51	51	51	54	53.4	56.4	—	—	—	—
	21CA/CR	59	59	59	64	63.2	68.2	75.6	80.6	77.2	82.2
	27CA/CR	72.8	72.8	72.8	78.6	77.8	83.6	89.4	95.2	91.8	97.6
	35CA/CR	107	107	107	114.4	112	119.4	129	136.4	131.4	138.8
	50CA/CR	141	141	141	149.2	147.4	155.6	166	174.2	168.4	176.6
SRS	7	23.4	23.4	23.4	—	—	—	—	—	—	—
	7W	31	31	31	—	—	—	—	—	—	—
	9	30.8	30.8	30.8	—	—	—	—	—	—	—
	9W	39	39	39	—	—	—	—	—	—	—
	12	34.4	34.4	34.4	—	—	—	—	—	—	—
	12W	44.5	44.5	44.5	—	—	—	—	—	—	—
	15	43	43	43	—	—	—	—	—	—	—
	15W	55.5	55.5	55.5	—	—	—	—	—	—	—
	20	50	50	50	—	—	—	67.2	—	—	—
	25	77	77	77	—	—	—	95.2	—	—	—
SCR	15S	64.4	64.4	64.4	69.8	66.8	72.2	78.9	84.4	79.9	85.2
	20S	79	79	79	85.4	83	89.4	94	100	96	102.5
	20	98	98	98	104.4	102	108.4	113	119	115	121.5
	25	109	109	109	118.6	117.4	124.6	129	136.2	131.4	138.6
	30	131	131	131	141	138.8	147.4	154.4	163	156.8	165.4
	35	152	152	152	164.8	162.4	172.2	178	187.8	180.4	190.2
	45	174	174	174	186.8	185.2	195	203	212.8	206.2	216
	65	272	272	272	289.6	287.2	299.6	309	321.4	312.2	324.6
HSR	8RM	24	24	—	—	—	—	—	—	—	—
	10RM	31	31	—	—	—	—	—	—	—	—
	12RM	45	45	—	—	—	—	—	—	—	—
	15A/B/R/YR	56.6	56.6	56.6	61.8	58.2*	63.4*	76	81.2	77.2	82.4
	20A/B/R/CA/CB/YR	74	74	74	80.6	76.6	83.2	92	98.6	95.2	101.8
	20LA/LB/LR/HA/HB	90	90	90	96.6	92.6	99.2	108	114.6	111.2	117.8
	25A/B/R/CA/CB/YR	83.1	83.1	83.1	90.7	86.7	94.3	101	108.6	105.3	112.9
	25LA/LB/LR/HA/HB	102.2	102.2	102.2	109.8	105.8	113.4	120.1	127.7	124.4	132
	30A/B/R/CA/CB/YR	98	98	98	105.6	101.6	109.2	119.9	127.5	124.2	131.8
	30LA/LB/LR/HA/HB	120.6	120.6	120.6	128.2	124.2	131.8	142.5	150.1	146.8	154.4
	35A/B/R/CA/CB/YR	109.4	109.4	109.4	117	113	120.6	132.4	140	135.6	143.2
	35LA/LB/LR/HA/HB	134.8	134.8	134.8	142.4	138.4	146	157.8	165.4	161	168.6
	45A/B/R/CA/CB/YR	139	139	139	146.2	144.2	151.4	—	—	—	—
	45LA/LB/LR/HA/HB	170.8	170.8	170.8	178	176	183.2	—	—	—	—
	55A/B/R/CA/CB/YR	163	163	163	170.2	168.2	175.4	—	—	—	—
	55LA/LB/LR/HA/HB	201.1	201.1	201.1	208.3	206.3	213.5	—	—	—	—
	65A/B/R/CA/CB/YR	186	186	186	193.2	191.2	198.4	—	—	—	—
	65LA/LB/LR/HA/HB	245.5	245.5	245.5	252.7	250.7	257.9	—	—	—	—
	85A/B/R/CA/CB/YR	245.6	245.6	245.6	252.8	252.4	259.6	—	—	—	—
	85LA/LB/LR/HA/HB	303	303	303	310.2	309.8	317	—	—	—	—
	100HA/HB/HR	334	334	334	—	—	—	—	—	—	—
	120HA/HB/HR	365	365	365	—	—	—	—	—	—	—
	150HA/HB/HR	396	396	396	—	—	—	—	—	—	—

Unit: mm

Model No.		Standard overall length	L								
			UU	SS	DD	ZZ	KK	SSHH	DDHH	ZZHH	KKHH
SR	15W/TB	57	57	57	62.2	58.4*	63.6*	—	—	—	—
	15V/SB	40.4	40.4	40.4	45.6	41.8*	47*	—	—	—	—
	20W/TB	66.2	66.2	66.2	72.8	70.6*	77.2*	—	—	—	—
	20V/SB	47.3	47.3	47.3	53.9	51.7*	58.3*	—	—	—	—
	25WY/TBY	83	83	83	90.6	87.4	95	—	—	—	—
	25VY/SBY	59.2	59.2	59.2	66.8	63.6	71.2	—	—	—	—
	30W/TB	96.8	96.8	96.8	104.4	99.4	107	—	—	—	—
	30V/SB	67.9	67.9	67.9	75.5	70.5	78.1	—	—	—	—
	35W/TB	111	111	111	118.6	113.6	121.2	—	—	—	—
	35V/SB	77.6	77.6	77.6	85.2	80.2	87.8	—	—	—	—
	45W/TB	126	126	126	134.6	129.4	138	—	—	—	—
	55W/TB	156	156	156	164.6	159.4	168	—	—	—	—
	70T	194.6	194.6	194.6	201.8	200.8	208	—	—	—	—
	85T	180	180	180	—	—	—	—	—	—	—
	100T	200	200	200	—	—	—	—	—	—	—
	120T	235	235	235	—	—	—	—	—	—	—
	150T	280	280	280	—	—	—	—	—	—	—
NR/ NRS	25XR/XA/XB	82.8	82.8	82.8	90.4	89.2	96.8	100.1	107.7	102.5	110.1
	25XLR/XLA/XLB	102	102	102	109.6	108.4	116	119.3	126.9	121.7	129.3
	30R/A/B	98	98	98	107	104.4	113.4	119.3	128.3	121.7	130.7
	30LR/LA/LB	120.5	120.5	120.5	129.5	126.9	135.9	141.8	150.8	144.2	153.2
	35R/A/B	109.5	109.5	109.5	119.7	117.1	127.3	131.1	141.3	133.5	143.7
	35LR/LA/LB	135	135	135	145.2	142.6	152.8	156.6	166.8	159	169.2
	45R/A/B	139	139	139	149.2	147.4	157.6	164.4	174.6	167.6	177.8
	45LR/LA/LB	171	171	171	181.2	179.4	189.6	196.4	206.6	199.6	209.8
	55R/A/B	162.8	162.8	162.8	173	171.4	181.6	188.1	198.3	191.3	201.5
	55LR/LA/LB	200	200	200	210.2	208.6	218.8	225.3	235.5	228.5	238.7
	65R/A/B	185.6	185.6	185.6	196.2	194.2	204.8	214.9	225.5	218.1	228.7
	65LR/LA/LB	245.6	245.6	245.6	256.2	254.2	264.8	274.9	285.5	278.1	288.7
	75R/A/B	218	218	218	229	226.6	237.6	—	—	—	—
	75LR/LA/LB	274	274	274	285	282.6	293.6	—	—	—	—
	85R/A/B	246.7	246.7	246.7	257.7	256.1	267.1	—	—	—	—
	85LR/LA/LB	302.8	302.8	302.8	313.8	312.2	323.2	—	—	—	—
	100R/A/B	288.8	288.8	288.8	297.8	295.6	307.2	—	—	—	—
	100LR/LA/LB	328.8	328.8	328.8	337.8	335.6	347.2	—	—	—	—
HRW	12LRM	37	37	37	—	—	—	—	—	—	—
	14LRM	45.5	45.5	45.5	—	—	—	—	—	—	—
	17CA/CR	50.8	50.8	—	54.8	54.4	60.2	—	—	—	—
	21CA/CR	58.8	58.8	—	64.2	62.8	69	—	—	—	—
	27CA/CR	72.8	72.8	72.8	79	75.6	81.8	—	—	—	—
	35CA/CR	106.6	106.6	106.6	113.8	112	119.2	—	—	—	—
	50CA/CR	140.5	140.5	140.5	147.7	143.3	150.5	—	—	—	—
	60CA	158.9	158.9	158.9	169.7	165.1	175.9	—	—	—	—
RSR/ RSR-W	3 M	12	—	—	—	—	—	—	—	—	—
	3N	16	—	—	—	—	—	—	—	—	—
	3WM	14.1	14.9	—	—	—	—	—	—	—	—
	3WN	19.1	19.9	—	—	—	—	—	—	—	—
	5 M	15.5	16.9	—	—	—	—	—	—	—	—
	5N	18.7	20.1	—	—	—	—	—	—	—	—
	5WM	20.7	22.1	—	—	—	—	—	—	—	—
	5WN	26.7	28.1	—	—	—	—	—	—	—	—
	7 M	22	23.4	—	—	—	—	—	—	—	—

Unit: mm

Model No.		Standard overall length	L								
			UU	SS	DD	ZZ	KK	SSHH	DDHH	ZZHH	KKHH
RSR/ RSR-W	7N	31.6	33	—	—	—	—	—	—	—	—
	7WM	30	31	—	—	—	—	—	—	—	—
	7WN	39.9	40.9	—	—	—	—	—	—	—	—
	9KM	27.8	30.8	—	—	—	—	—	—	—	—
	9N	37.8	41	—	—	—	—	—	—	—	—
	9WV	36	39	—	—	—	—	—	—	—	—
	9WVM	36	39	—	—	—	—	—	—	—	—
	9WN	47.7	50.7	—	—	—	—	—	—	—	—
	12VM	31	35	—	—	—	—	—	—	—	—
	12N	43.7	47.7	—	—	—	—	—	—	—	—
	12WV	41.3	44.5	—	—	—	—	—	—	—	—
	12WVM	41.3	44.5	—	—	—	—	—	—	—	—
	12WN	56.3	59.5	—	—	—	—	—	—	—	—
	15VM	38.9	43	—	—	—	—	—	—	—	—
	15N	56.5	61	—	—	—	—	—	—	—	—
	15WV	51.5	55.5	—	—	—	—	—	—	—	—
	15WVM	51.5	55.5	—	—	—	—	—	—	—	—
	15WN	70.5	74.5	—	—	—	—	—	—	—	—
	20VN	61.5	66.5	—	—	—	—	—	—	—	—
	20N	81.3	86.3	—	—	—	—	—	—	—	—
RSR-Z/ WZ	7ZM	21.6	23.4	—	—	—	—	—	—	—	—
	9ZM	29.1	30.8	—	—	—	—	—	—	—	—
	12ZM	32.6	35	35	—	—	—	—	—	—	—
	15ZM	40.2	43	43	—	—	—	—	—	—	—
	7WZM	29.2	31.5	—	—	—	—	—	—	—	—
	9WZM	37.6	39	39	—	—	—	—	—	—	—
	12WZM	42.1	44.5	44.5	—	—	—	—	—	—	—
	15WZM	53.1	55.5	55.5	—	—	—	—	—	—	—
RSH	7M	20.4	23.4	—	—	—	—	—	—	—	—
	9KM	27.8	30.8	—	—	—	—	—	—	—	—
	12VM	31	35	—	—	—	—	—	—	—	—
RSH-Z/ WZ	7ZM	20.4	23.4	—	—	—	—	—	—	—	—
	9ZM	29.1	30.8	—	—	—	—	—	—	—	—
	12ZM	32.6	35	35	—	—	—	—	—	—	—
	15ZM	40.2	43	43	—	—	—	—	—	—	—
	7WZM	28	31.5	—	—	—	—	—	—	—	—
	9WZM	37.6	39	39	—	—	—	—	—	—	—
	12WZM	42.1	44.5	44.5	—	—	—	—	—	—	—
	15WZM	53.1	55.5	55.5	—	—	—	—	—	—	—
HR	918	45	45	—	—	—	—	—	—	—	—
	1123	52	52	—	—	—	—	—	—	—	—
	1530	69	69	—	—	—	—	—	—	—	—
	2042	91.6	91.6	—	—	—	—	—	—	—	—
	2042T	110.7	110.7	—	—	—	—	—	—	—	—
	2555	121	121	—	—	—	—	—	—	—	—
	2555T	146.4	146.4	—	—	—	—	—	—	—	—
	3065	145	145	—	—	—	—	—	—	—	—
	3065T	173.5	173.5	—	—	—	—	—	—	—	—
	3575	154.8	154.8	—	—	—	—	—	—	—	—
	3575T	182.5	182.5	—	—	—	—	—	—	—	—
	4085	177.8	177.8	—	—	—	—	—	—	—	—
	4085T	215.9	215.9	—	—	—	—	—	—	—	—

Unit: mm

Model No.		Standard overall length	L								
			UU	SS	DD	ZZ	KK	SSHH	DDHH	ZZHH	KKHH
HR	50105	227	227	—	—	—	—	—	—	—	—
	50105T	274.5	274.5	—	—	—	—	—	—	—	—
	60125	329	329	—	—	—	—	—	—	—	—
GSR	15T	59.8	59.8	59.8	65	65.8	71	—	—	—	—
	15V	47.1	47.1	47.1	52.3	53.1	58.3	—	—	—	—
	20T	74	74	74	80.6	77.6	84.2	—	—	—	—
	20V	58.1	58.1	58.1	64.7	61.7	68.3	—	—	—	—
	25T	88	88	88	95	91.6	98.6	—	—	—	—
	25V	69	69	69	76	72.6	79.6	—	—	—	—
	30T	103	103	103	110.6	107.2	114.8	—	—	—	—
	35T	117	117	117	124.6	121.2	128.8	—	—	—	—
GSR-R	25T-R	88	88	88	95	91.6	98.6	—	—	—	—
	25V-R	69	69	69	76	72.6	79.6	—	—	—	—
	30T-R	103	103	103	110.6	107.2	114.8	—	—	—	—
	35T-R	117	117	117	124.6	121.2	128.8	—	—	—	—
CSR	15	56.6	56.6	56.6	61.8	58.2*	63.4*	—	—	—	—
	20S	74	74	74	80.6	76.6	83.2	—	—	—	—
	20	90	90	90	96.6	92.6	99.2	—	—	—	—
	25S	83.1	83.1	83.1	90.7	86.7	94.3	—	—	—	—
	25	102.2	102.2	102.2	109.8	105.8	113.4	—	—	—	—
	30S	98	98	98	105.6	101.6	109.2	—	—	—	—
	30	120.6	120.6	120.6	128.2	124.2	131.8	—	—	—	—
	35	134.8	134.8	134.8	142.4	138.4	146	—	—	—	—
	45	170.8	170.8	170.8	178	176	183.2	—	—	—	—
MX	5M	22.3	23.3	—	—	—	—	—	—	—	—
	7WM	39.8	40.8	—	—	—	—	—	—	—	—
JR	25A/B/R	83.1	83.1	83.1	90.7	89.4	97	—	—	—	—
	35A/B/R	113.6	113.6	113.6	125.6	122	134*	—	—	—	—
	45A/B/R	145	145	145	159	150.8	164.8*	—	—	—	—
	55A/B/R	165	165	165	175.4	170.4	180.8*	—	—	—	—
HCR	12A+60/100R	44.6	44.6	—	—	—	—	—	—	—	—
	15A+60/150R	56.2	56.2	56.2	61.8	57.8	63	—	—	—	—
	15A+60/300R	56.4	56.4	56.4	62	58	63.2	—	—	—	—
	15A+60/400R	56.5	56.5	56.5	62.1	58.1	63.3	—	—	—	—
	25A+60/500R	83	83	83	90.6	86.6	94.2	—	—	—	—
	25A+60/750R	83	83	83	90.6	86.6	94.2	—	—	—	—
	25A+60/1000R	83	83	83	90.6	86.6	94.2	—	—	—	—
	35A+60/600R	109.2	109.2	109.2	116.7	112.7	120.3	—	—	—	—
	35A+60/800R	109.3	109.3	109.3	116.8	112.8	120.4	—	—	—	—
	35A+60/1000R	109.3	109.3	109.3	116.8	112.8	120.4	—	—	—	—
	35A+60/1300R	109.3	109.3	109.3	116.8	112.8	120.4	—	—	—	—
	45A+60/800R	138.7	138.7	138.7	145.9	143.9	151.1	—	—	—	—
	45A+60/1000R	138.8	138.8	138.8	146	144	151.2	—	—	—	—
	45A+60/1200R	138.8	138.8	138.8	146	144	151.2	—	—	—	—
	45A+60/1600R	138.9	138.9	138.9	146.1	144.1	151.3	—	—	—	—
	65A+60/1000R	197.8	197.8	197.8	204.7	202.7	209.9	—	—	—	—
	65A+60/1500R	197.9	197.9	197.9	204.8	202.8	210	—	—	—	—
	65A+60/2000R	197.9	197.9	197.9	204.8	202.8	210	—	—	—	—
	65A+60/2500R	197.9	197.9	197.9	204.9	202.9	210.1	—	—	—	—
	65A+60/3000R	197.9	197.9	197.9	204.9	202.9	210.1	—	—	—	—
HMG	15A	48	48	—	—	—	—	—	—	—	—
	25A	62.2	62.2	—	—	—	—	—	—	—	—

Unit: mm

Model No.			L								
		Standard overall length	UU	SS	DD	ZZ	KK	SSHH	DDHH	ZZHH	KKHH
HMG	35A	80.6	80.6	—	—	—	—	—	—	—	—
	45A	107.6	107.6	—	—	—	—	—	—	—	—
	65A	144.4	144.4	—	—	—	—	—	—	—	—
NSR-TBC	20TBC	67	67	—	—	—	—	—	—	—	—
	25TBC	78	78	—	—	—	—	—	—	—	—
	30TBC	90	90	—	—	—	—	—	—	—	—
	40TBC	110	110	110	—	—	—	—	—	—	—
	50TBC	123	123	123	—	—	—	—	—	—	—
	70TBC	150	150	150	—	—	—	—	—	—	—
HSR-M1	15M1A/M1B/M1R/M1YR	59.6	59.6	59.6	—	—	—	—	—	—	—
	20M1A/M1B/M1R/M1YR	76	76	76	—	—	—	—	—	—	—
	20M1LA/M1LB/M1LR	92	92	92	—	—	—	—	—	—	—
	25M1A/M1B/M1R/M1YR	83.9	83.9	83.9	—	—	—	—	—	—	—
	25M1LA/M1LB/M1LR	103	103	103	—	—	—	—	—	—	—
	30M1A/M1B/M1R/M1YR	98.8	98.8	98.8	—	—	—	—	—	—	—
	30M1LA/M1LB/M1LR	121.4	121.4	121.4	—	—	—	—	—	—	—
	35M1A/M1B/M1R/M1YR	112	112	112	—	—	—	—	—	—	—
	35M1LA/M1LB/M1LR	137.4	137.4	137.4	—	—	—	—	—	—	—
SR-M1	15M1W/M1TB	57	57	57	—	—	—	—	—	—	—
	15M1V/M1SB	40.4	40.4	40.4	—	—	—	—	—	—	—
	20M1W/M1TB	66.2	66.2	66.2	—	—	—	—	—	—	—
	20M1V/M1SB	47.3	47.3	47.3	—	—	—	—	—	—	—
	25M1W/M1TB	83	83	83	—	—	—	—	—	—	—
	25M1V/M1SB	59.2	59.2	59.2	—	—	—	—	—	—	—
	30M1W/M1TB	96.8	96.8	96.8	—	—	—	—	—	—	—
	30M1V/M1SB	67.9	67.9	67.9	—	—	—	—	—	—	—
	35M1W/M1TB	111	111	111	—	—	—	—	—	—	—
	35M1V/M1SB	77.6	77.6	77.6	—	—	—	—	—	—	—
RSR-M1	9M1K	27.8	30.8	—	—	—	—	—	—	—	—
	9M1N	37.8	41	—	—	—	—	—	—	—	—
	9M1WV	36	39	—	—	—	—	—	—	—	—
	9M1WN	47.7	50.7	—	—	—	—	—	—	—	—
	12M1V	31	35	—	—	—	—	—	—	—	—
	12M1N	43.7	47.7	—	—	—	—	—	—	—	—
	12M1WV	41.3	44.5	—	—	—	—	—	—	—	—
	12M1WN	56.3	59.5	—	—	—	—	—	—	—	—
	15M1V	38.9	43	—	—	—	—	—	—	—	—
	15M1N	56.5	61	—	—	—	—	—	—	—	—
	15M1WV	51.5	55.5	—	—	—	—	—	—	—	—
	15M1WN	70.5	74.5	—	—	—	—	—	—	—	—
	20M1V	61.5	66.5	—	—	—	—	—	—	—	—
	20M1N	81.3	86.3	—	—	—	—	—	—	—	—
HSR-M2	15M2A	56.6	56.6	56.6	—	—	—	—	—	—	—
	20M2A	74	74	74	—	—	—	—	—	—	—
	25M2A	83.1	83.1	83.1	—	—	—	—	—	—	—
SRG	15A/V	69	69	69	71	—	—	—	—	—	—
	20A/V	86	86	86	88	91.4	93.4	106.6	108.6	109	111
	20LA/LV	106	106	106	108	111.4	113.4	126.6	128.6	129	131
	25C/R	95.5	95.5	95.5	100.5	100.5	105.5	115.3	120.3	117.7	122.7
	25LC/LR	115.1	115.1	115.1	120.1	120.1	125.1	134.9	139.9	137.6	142.3
	30C/R	111	111	111	118	116	123	130.8	137.8	133.2	140.2
	30LC/LR	135	135	135	142	140	147	154.8	161.8	157.2	164.2

Unit: mm

Model No.		Standard overall length	L								
			UU	SS	DD	ZZ	KK	SSHH	DDHH	ZZHH	KKHH
SRG	35C/R	125	125	125	132.8	133.4	141.4	148.6	151	151	159
	35LC/LR	155	155	155	162.8	163.4	171.2	178.6	181	181	188.8
	45C/R	155	155	155	164.2	164.2	173.4	182	185.2	185.5	194.5
	45LC/LR	190	190	190	199.2	199.2	208.4	217	220.2	220.2	229.4
	55C/R	185	185	185	194.2	194.2	203.4	212	215.2	215.5	224.5
	55LC/LR	235	235	235	244.2	244.2	253.4	262	265.2	265.2	274.4
	65LC/LV	303	303	303	314.2	314.2	325.4	335.4	338.6	338.6	349.8
SRN	35C/R	125	125	125	132.8	133.4	141.4	148.6	151	151	159
	35LC/LR	155	155	155	162.8	163.4	171.2	178.6	181	181	188.8
	45C/R	155	155	155	164.2	164.2	173.4	182	185.2	185.5	194.5
	45LC/LR	190	190	190	199.2	199.2	208.4	217	220.2	220.2	229.4
	55C/R	185	185	185	194.2	194.2	203.4	212	215.2	215.5	224.5
	55LC/LR	235	235	235	244.2	244.2	253.4	262	265.2	265.2	274.4
	65LC/LR	303	303	303	314.2	314.2	325.4	335.4	338.6	338.6	349.8
SRW	70LR	190	190	190	199.2	197.2	206.4	217	226.2	220.2	229.4
	85LR	235	235	235	244.2	242.2	251.4	262	271.2	265.2	274.4
	100LR	303	303	303	314.2	311.4	322.6	335.4	346.6	338.6	349.8

A grease nipple cannot be attached. Contact THK for details.

Model number coding

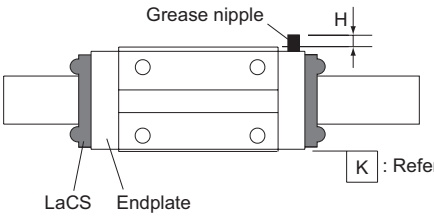
SHS25 LC 2 QZ KKHH C0 +1200L P T Z -II

- SHS25: Model number
- LC: Type of LM block
- 2: No. of LM blocks used on the same rail
- QZ: With QZ Lubricator (*1)
- KKHH: Contamination protection accessory symbol (*2)
- C0: Radial clearance symbol (*3) — Normal (No symbol), Light preload (C1), Medium preload (C0)
- +1200L: LM rail length (in mm)
- P: Accuracy symbol (*4) — Normal grade (No Symbol), High accuracy grade (H), Precision grade (P)/Super precision grade (SP), Ultra precision grade (UP)
- T: Symbol for LM rail jointed use
- Z: With steel tape
- -II: Symbol for No. of rails used on the same plane (*5)

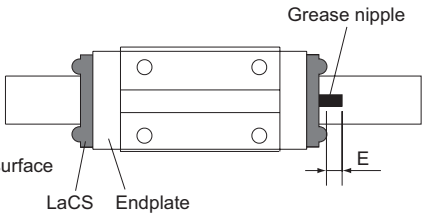
(*1) See A-361. (*2) See A-368. (*3) See A-113. (*4) See A-118. (*5) See A-59.

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.)
Those models equipped with QZ Lubricator cannot have a grease nipple.

Incremental Dimension with Grease Nipple (When LaCS is Attached)



Grease nipple mounting location
for models SHS, SSR, SNR/SNS, SRG and NR/NRS



Grease nipple mounting location
for models SHW, SRS and HSR

Unit: mm

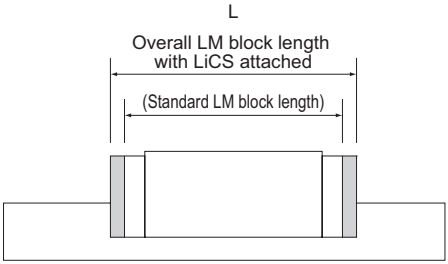
Model No.		Incremental dimension with grease nipple H	Nipple type
SHS	15C/LC	—	PB107
	15R/V/LV	4.7	PB107
	20C/LC	—	PB107
	20V/LV	4.5	PB107
	25C/LC	—	PB107
	25R/LR/V/LV	4.7	PB107
	30C/LC	—	A-M6F
	30R/LR/V/LV	7.4	A-M6F
	35C/LC	—	A-M6F
	35R/LR/V/LV	7.4	A-M6F
	45C/LC	—	A-M6F
	45R/LR/V/LV	7.7	A-M6F
	55C/LC	—	A-M6F
	55R/LR/V/LV	7.4	A-M6F
	65C/LC	—	A-M6F
	65V/LV	6.9	A-M6F
SSR	15XVY/XWY	4.4	PB107
	15XTBY	—	PB107
	20XV/XW	4.6	PB107
	20XTB	—	PB107
	25XVY/XWY	4.5	PB107
	25XTBY	—	PB107
	30XW	5	PB1021B
	35XW	5	PB1021B
SNR/SNS	25C/LC	—	PB1021B
	25R/LR	4.9	PB1021B
	30C/LC	—	PB1021B
	30R/LR	4.5	PB1021B
	35C/LC	—	A-M6F
	35R/LR	7.8	A-M6F
	45C/LC	—	A-M6F
	45R/LR	7.9	A-M6F
	55C/LC	—	A-M6F
	55R/LR	7.7	A-M6F
	65C/LC	—	A-PT1/8
	65R/LR	15.8	A-PT1/8

Unit: mm

Model No.		Incremental dimension with grease nipple E	Nipple type
SHW	21CA/CR	4.2	PB1021B
	27CA/CR	10.7	B-M6F
	35CA/CR	10.0	B-M6F
	50CA/CR	21	B-PT1/8
SRS	25	4	PB1021B
HSR	15A/B/R/YR	2.9	PB1021B
	20A/B/R/CA/CB/YR	9.4	B-M6F
	20LA/LB/LR/HA/HB	9.4	B-M6F
	25A/B/R/CA/CB/YR	9	B-M6F
	25LA/LB/LR/HA/HB	9	B-M6F
	30A/B/R/CA/CB/YR	9	B-M6F
	30LA/LB/LR/HA/HB	9	B-M6F
	35A/B/R/CA/CB/YR	8	B-M6F
	35LA/LB/LR/HA/HB	8	B-M6F
NR/NRS	25A/B/LA/LB	—	PB1021B
	25R/LR	4.8	PB1021B
	30A/B/LA/LB	—	PB1021B
	30R/LR	4.5	PB1021B
	35A/B/LA/LB	—	A-M6F
	35R/LR	7.4	A-M6F
	45A/B/LA/LB	—	A-M6F
	45R/LR	7.4	A-M6F
	55A/B/LA/LB	—	A-M6F
	55R/LR	6.9	A-M6F
	65A/B/LA/LB	—	A-PT1/8
	65R/LR	15.3	A-PT1/8
SRG	35LC	—	A-M6F
	35LR	7.2	A-M6F
	45LC	—	A-M6F
	45LR	7.2	A-M6F
	55LC	—	A-M6F
	55LR	7.2	A-M6F
	65LC	—	A-M6F
	65LR	6.2	A-M6F

Note1) When desiring the mounting location for the grease nipple other than the above, contact THK.
Note2) Those models equipped with QZ Lubricator cannot have a grease nipple. When desiring both QZ Lubricator and a grease nipple, contact THK.
Note3) When desiring a grease nipple for model SHW or SRS without QZ Lubricator, indicate “with grease nipple” when placing an order. (If not, a grease nipple will not be attached.)
Note4) Model HSR15 attached with ZZ or KK cannot have a grease nipple. Contact THK for details.

LM Block Dimension (Dimension L) with LiCS Attached



Unit: mm

Model No.			L	
		Standard overall length	GG	PP
SSR	15XVY	40.3	48.7	—
	15XWY/XTBY	56.9	65.3	—
	20XV	47.7	55.8	—
	20XW/XTB	66.5	74.6	—
	25XVY	60	67.6	—
	25XWY/XTBY	83	90.6	—
	30XW	97	106.7	—
	35XW	110.9	121.7	—
SRG	15A	67	77	77
	15V	67	77	77

Model number coding

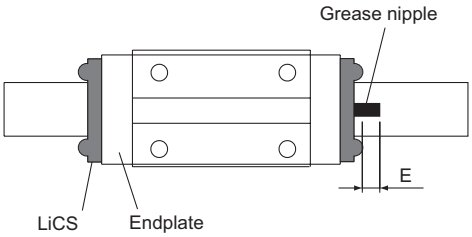
SSR20 XW 2 GG C1 +600L P T -II

- SSR20: Model number
- XW: Type of LM block
- 2: No. of LM blocks used on the same rail
- GG: With LiCS (*1)
- C1: Radial clearance symbol (*2) Normal (No symbol) Light preload (C1) Medium preload (C0)
- +600L: LM rail length (in mm)
- P: Accuracy symbol (*3) Normal grade (No Symbol)/High accuracy grade (H) Precision grade (P) /Super precision grade (SP) Ultra precision grade (UP)
- T: Symbol for LM rail jointed use
- -II: Symbol for No. of rails used on the same plane (*4)

(*1) See A-355 (*2) See A-113 (*3) See A-118 (*4) SeeA-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.)
Those models equipped with QZ Lubricator cannot have a grease nipple.

Incremental Dimension with Grease Nipple (When LiCS is Attached)



Location for Mounting the Grease Nipple

Unit: mm

Model No.		Incremental dimension with grease nipple E	Nipple type
SSR	15XVY	2.9	PB1021B
	15XWY/XTBY	2.9	PB1021B
	20XV	9	B-M6F
	20XW/XTB	9	B-M6F
	25XVY	9	B-M6F
	25XWY/XTBY	9	B-M6F
	30XW	9	B-M6F
	35XW	8	B-M6F
SRG	15A	4.5	PB107
	15V	4.5	PB107

Model number coding

SSR20 XW 2 GG C1 +600L H -II

- SSR20: Model number
- XW: Type of LM block
- 2: No. of LM blocks used on the same rail
- GG: With LiCS (*1)
- C1: Radial clearance symbol (*2) Normal (No symbol) Light preload (C1) Medium preload (C0)
- +600L: LM rail length (in mm)
- H: Accuracy symbol (*3) Normal grade (No Symbol) High accuracy grade (H)/Precision grade (P) Super precision grade (SP)/Ultra precision grade (UP)
- -II: Symbol for No. of rails used on the same plane (*4)

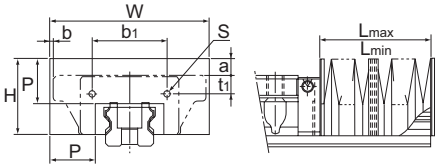
(*1) See A-355 (*2) See A-113 (*3) See A-118 (*4) SeeA-59

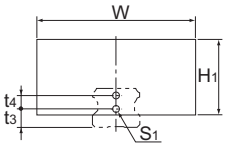
Note) This model number indicates that a single-rail unit constitutes one set. (i.e., required number of sets when 2 rails are used in parallel is 2 at a minimum.)
Those models equipped with QZ Lubricator cannot have a grease nipple.

Bellows

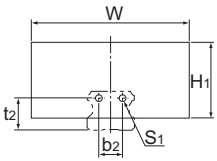
[Dedicated Bellows JSH for Model SHS]

The table below shows the dimensions of dedicated bellows JSH for model SHS. Specify the corresponding model number of the desired bellows from the table.





Models SHS15 to 30



Models SHS35 to 65

Unit: mm

Model No.		Main dimensions												Supported model numbers	
		W	H	H_1	P	b_1	C	V	R	b_2	t_2	t_3	t_4		
JSH	15	53	26	26	15	22.4	4	4	8	—	—	8	—	SHS	15
	20	60	30	30	17	27.6	7.5	7.5	—	—	—	8	6		20
	25	75	36	36	20	38	9.1	9.1	13.1	—	—	9	7		25
	30	80	38	38	20	44	11	11	14	—	—	11	8		30
	35	86	40.5	40.5	20	50	11	11	18	20	21.5	—	—		35
	45	97	46	46	20	64.6	13.5	13.5	23.5	26	26.5	—	—		45
	55	105	48	48	20	68	13	13	23	30	31.5	—	—		55
	65	126	63	63	25	80	18	18	—	34	45	—	—		65

Unit: mm

Supported model numbers		Other dimensions								$\left(\frac{A\ \text{Lmax}}{\text{Lmin}}\right)$
		Mounting bolt		a			b			
		S	S_1	C	V	R	C	V	R	
SHS	15	M2×8ℓ	M4×8ℓ	5	5	1	3	9.5	9.5	5
	20	M2.6×8ℓ	M3×6ℓ	5	5	—	−1.5	8	—	6
	25	M3×8ℓ	M3×6ℓ	6	6	2	2.5	13.5	13.5	7
	30	M3×10ℓ	M3×6ℓ	3	3	0	−5	10	10	7
	35	M4×10ℓ	M4×8ℓ	0	0	−7	−7	8	8	7
	45	M4×12ℓ	M4×8ℓ	−5	−5	−15	−11.7	5.5	5.5	7
	55	M5×12ℓ	M5×10ℓ	−9	−9	−19	−17.5	2.5	2.5	7
	65	M6×14ℓ	M6×12ℓ	−8	−8	—	−22	0	—	9

Note1) When desiring to use the dedicated bellows other than in horizontal mount (i.e., vertical, wall and inverted mount), or when desiring a heat-resistant type of bellows, contact THK.
Note2) For lubrication when using the dedicated bellows, contact THK.
Note3) When using the dedicated bellows, the LM block and LM rail need to be machined so that the bellows can be mounted. Be sure to indicate that the dedicated bellows is required when ordering the LM Guide.

Model number coding

JSH35 - 60/420

Model number of bellows for SHS35

Dimensions of the bellows (length when compressed / length when extended)

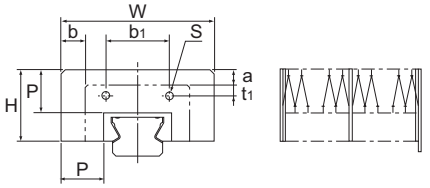
Note) The length of the bellows is calculated as follow.

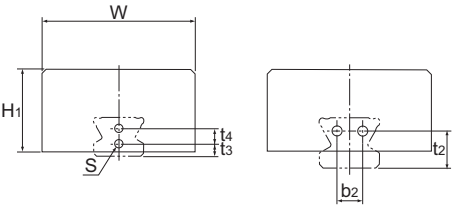
$$Lmin = \frac{S}{(A-1)}$$ S: Stroke length (mm)

$Lmax = Lmin \cdot A$ A: Extension rate

[Dedicated Bellows JSSR-X for Model SSR]

The table below shows the dimensions of dedicated bellows JSSR-X for model SSR. Specify the corresponding model number of the desired bellows from the table.





Models SSR15X to 25X Models SSR30X and 35X

Unit: mm

Model No.		Main dimensions														A (Lmax/Lmin)	Supported model numbers	
		W	H	H_1	P	b_1	t_1	b_2	t_2	t_3	t_4	Mounting bolt S	a	b XW/XV	b XTB			
JSSR	15X	51	24	26	15	20.5	4.7	—	—	8	—	M3×5ℓ	5	8.5	−0.5	5	SSR	15X
	20X	58	26	30	15	25	4.2	—	—	6	6	M3×5ℓ	4	8	−0.5	5		20X
	25X	71	33	38	20	29	5	—	—	6	7	M3×5ℓ	7	11.5	−1	7		25X
	30X	76	37.5	37.5	20	35	9	12	17	—	—	M4×6ℓ	3	8	—	7		30X
	35X	84	39	39	20	44	7	14	20	—	—	M5×10ℓ	2	7	—	7		35X

Note1) When desiring to use the dedicated bellows other than in horizontal mount (i.e., vertical, wall and inverted mount), or when desiring a heat-resistant type of bellows, contact THK.
Note2) For lubrication when using the dedicated bellows, contact THK.
Note3) When using the dedicated bellows, the LM block and LM rail need to be machined so that the bellows can be mounted. Be sure to indicate that the dedicated bellows is required when ordering the LM Guide.

Model number coding

JSSR35X - 60/420

- JSSR35X: Model number of bellows for SSR35X
- 60/420: Dimensions of the bellows (length when compressed / length when extended)

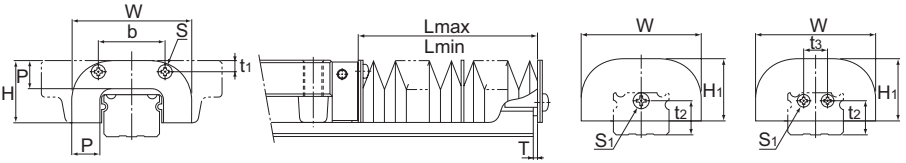
Note) The length of the bellows is calculated as follow.

$$Lmin = \frac{S}{(A-1)}$$ S: Stroke length (mm)

$Lmax = Lmin \cdot A$ A: Extension rate

[Dedicated Bellows JSN for Models SNR and SNS]

For models SNR/SNS-C, SNR/SNS-LC, SNR/SNS-R and SNR/SNS-LR, a simplified bellows is available. Attach the simplified bellows when the LM Guide is used in locations subject to a coolant or the like. To gain a higher contamination protection effect, attach a telescopic cover outside the simplified bellows after the bellows is mounted.



Models SNR25 to 45 Models SNR55 and 65

Unit: mm

Model No.		Main dimensions											A Lmax/Lmin	Supported model numbers	
		W	H	H_1	P	b	t_1	t_2	t_3	Mounting bolt S	Mounting bolt S_1	T			
JSN	25	50	25.5	24.5	10	26.6	4.6	13	—	M3×5ℓ	M4×4ℓ	1.5	7	SNR/SNS	25
	30	60	31	30	14	34	5.5	16.5	—	M4×8ℓ	M4×4ℓ	1.5	9		30
	35	70	35	34	15	36	6	20	—	M4×8ℓ	M5×4ℓ	2	10		35
	45	86	40.5	39.5	17	47	6.5	23.5	—	M5×10ℓ	M5×4ℓ	2	10		45
	55	100	49	48	19.5	54	10	30.6	18	M5×10ℓ	M5×4ℓ	2	13		55
	65	126	60	59	22	64	13.5	36.1	20	M6×12ℓ	M6×5ℓ	3.2	13		65
	85	156	70.5	70.5	30	110	15.5	39.5	28	M6×12ℓ	M6×5ℓ	3.2	20		85

Note1) When desiring to use the simplified bellows other than in horizontal mount (i.e., vertical, wall and inverted mount), or when desiring a heat-resistant type of bellows, contact THK.
Note2) For lubrication when using the simplified bellows, contact THK.
Note3) For the bellows for models SNR/SNS-CH, SNR/SNS-LCH, SNR/SNS-RH and SNR/SNS-LRH, contact THK.
Note4) When using the simplified bellows, the LM block and LM rail need to be machined so that the bellows can be mounted. Be sure to indicate that the simplified bellows is required when ordering the LM Guide.

Model number coding

JSN25 - 60/420

Model number of bellows for SNR/SNS25

Dimensions of the bellows (length when compressed / length when extended)

Note) The length of the bellows is calculated as follow.

$$Lmin = \frac{S}{(A-1)}$$ S: Stroke length (mm)

$Lmax = Lmin \cdot A$ A: Extension rate

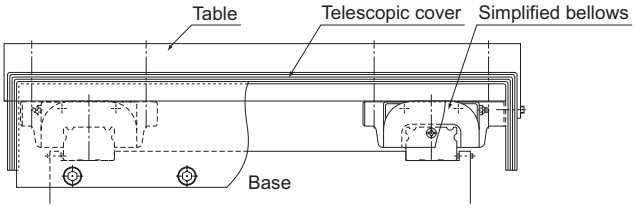
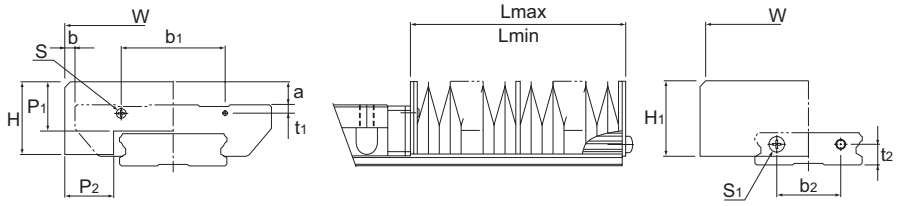


Fig.1 Example of Mounting the Simplified Bellows

[Dedicated Bellows JSHW for Model SHW]

The table below shows the dimensions of dedicated bellows JSHW for model SHW. Specify the corresponding model number of the desired bellows from the table.



Unit: mm

Model No.		Main dimensions									Supported model numbers	
		W	H	H_1	P_1	P_2	b_1	t_1	b_2	t_2		
JSHW	17	68	22	23	15	15.4	39	2.6	18	6	SHW	17
	21	75	25	26	17	17	35.8	2.9	22	7		21
	27	85	33.5	33.5	20	20	25	3.5	20	10		27
	35	120	35	35	20	20	75	7.5	40	13		35
	50	164	42	42	20	20	89.4	14	50	16		50

Unit: mm

Model No.		Other dimensions					
		Mounting bolt		a	b		$A\left(\frac{Lmax}{Lmin}\right)$
		*S	S_1		Model CA	Model CR	
JSHW	17	M2×4ℓ	M3×6ℓ	8	4	9	5
	21	M2×5ℓ	M3×6ℓ	8	3.5	10.5	6
	27	M2.6×6ℓ	M3×6ℓ	10	2.5	11.5	7
	35	M3×8ℓ	M3×6ℓ	6	0	10	7
	50	M4×12ℓ	M4×8ℓ	—	1	17	7

Note1) When desiring to use the dedicated bellows other than in horizontal mount (i.e., vertical, wall and inverted mount), or when desiring a heat-resistant type of bellows, contact THK.
Note2) For lubrication when using the dedicated bellows, contact THK.
Note3) For the mounting bolts marked with "*", use tapping screws.
Note4) When using the dedicated bellows, the LM block and LM rail need to be machined so that the bellows can be mounted. Be sure to indicate that the dedicated bellows is required when ordering the LM Guide.

Model number coding

JSHW21 - 60/360

Model number of bellows for SHW21

Dimensions of the bellows (length when compressed / length when extended)

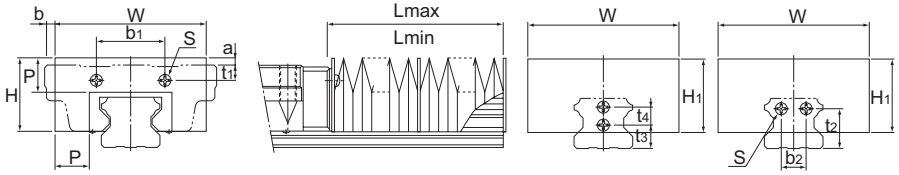
Note) The length of the bellows is calculated as follow.

$$Lmin = \frac{S}{(A-1)}$$ S: Stroke length (mm)

$Lmax = Lmin \cdot A$ A: Extension rate

[Dedicated Bellows JH for Model HSR]

The table below shows the dimensions of dedicated bellows JH for model HSR. Specify the corresponding model number of the desired bellows from the table.



Models HSR15 to 30 Models HSR35 to 85

Unit: mm

Model No.		Main dimensions																A (Lmax/Lmin)	Supported model numbers	
							t_1							a		b				
		W	H	H_1	P	b_1	A/B	R	b_2	t_2	t_3	t_4	Mounting bolt S	A/B	R	A/B	R			
JH	15	55	27	30	15	25	2.5	6.5	—	—	10	—	*M4×8ℓ	7.5	3.5	−4	−10.5	5	HSR	15
	20	66	32	35	17	34	5	5	—	—	6	8	M3×6ℓ	7	7	−1.5	−11	6		20
	25	78	38	38	20	30	7	11	—	—	10	8	M3×6ℓ	8.5	4.5	−4	−15	7		25
	30	84	42	42	20	40	8	11	—	—	11	10	M4×8ℓ	7	4	3	−12	7		30
	35	88	43	43	20	40	9	16	14	23	—	—	M4×8ℓ	4	—	6	−9	7		35
	45	100	51	51	20	58	10	20	20	29	—	—	M5×10ℓ	—	—	10	−7	7		45
	55	108	54	54	20	66	11	21	26	35	—	—	M5×10ℓ	—	—	16	−4	7		55
	65	132	68	68	20	80	19	19	32	42	—	—	M6×12ℓ	—	—	19	−3	7		65
	85	170	88	88	30	105	23	23	44	50	—	—	M6×12ℓ	—	—	22.5	−7	10		85

Note1) For model JH15's location marked with " * ", mounting bolts are used only on the LM rail side while the LM block side uses M2 x 5 (nominal) tapping screws.
Note2) When desiring to use the dedicated bellows other than in horizontal mount (i.e., vertical, wall and inverted mount), or when desiring a heat-resistant type of bellows, contact THK.
Note3) For lubrication when using the dedicated bellows, contact THK.
Note4) When using the dedicated bellows, the LM block and LM rail need to be machined so that the bellows can be mounted. Be sure to indicate that the dedicated bellows is required when ordering the LM Guide.

Model number coding

JH25 - 60/420

Model number of bellows for HSR25

Dimensions of the bellows (length when compressed / length when extended)

Note) The length of the bellows is calculated as follow.

$$Lmin = \frac{S}{(A-1)}$$ S: Stroke length (mm)

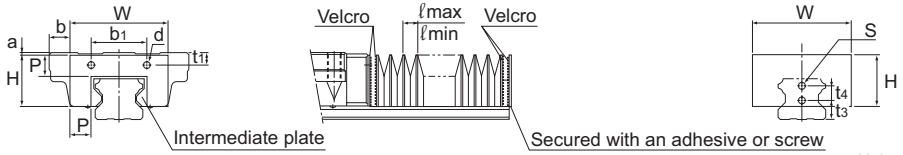
$Lmax = Lmin \cdot A$ A: Extension rate

[Dedicated Bellows DH for Model HSR]

For models HSR15, 20 and 25, bellows DH, which has the following features, is also available other than the dedicated bellows JH. Specify the corresponding model number of the desired bellows from the table.

● Features

(1) Has a width and height smaller than the conventional product so that any part of the bellows does not stick out of the top face of the LM block. The extension rate is equal to or greater than that of the conventional type.
(2) Has an intermediate plate for each crest so that it will not easily lift and the bellows can be used with vertical mount, wall mount and slant mount.
(3) Operable at high speed, at up to 120 m/min.
(4) Since a Velcro tape can be used to install the bellows, a regular-size model can be cut to the desired length, or two or more regular-size bellows can be taped together.
(5) Can be installed using screws just as bellows JH.
In this case, a plate (thickness: 1.6 mm) must be placed between the bellows and the LM bock. Contact THK for details.



Unit: mm

Model No.		Main dimensions																		Supported model numbers	
						t_1					a		b				Extension rate		Factor		
		W	H	P	b_1	A/B	R	t_3	t_4	d	A/B	R	A/B	R	ℓmax	ℓmin	A	E	k		
DH	15	35	19.5	8.5	25	2.5	6.5	10	—	3.5	0	4	6	−0.5	10	2.5	4	2	1.2	HSR	15
	20	45	25	10	34	5	5	6	8	4	0	0	9	−0.5	13	2.5	5	2	1.3		20
	25	52	29.5	12	30	7	11	10	8	4	0	4	9	−2	15	3	5	2	1.3		25

Note1) For lubrication when using the dedicated bellows, contact THK.
Note2) When using the dedicated bellows, the LM block and LM rail need to be machined so that the bellows can be mounted. Be sure to indicate that the dedicated bellows is required when ordering the LM Guide.

Model number coding

DH20 - 50/250

Model number of bellows for HSR20

Dimensions of the bellows (length when compressed / length when extended)

Note) The maximum length of the bellows itself is calculated as follows.
Lmax (Lmin) = ℓmax (ℓmim) ×200
Example of calculating bellows dimensions:
When the stroke of model HSR20 is: ℓs=530mm

$$Lmin = \frac{\ell s}{(A-1)} = \frac{530}{4} = 132.5 \fallingdotseq 135$$

$$Lmax = A \cdot Lmin = 5 \times 135 = 675$$

Number of required crests n

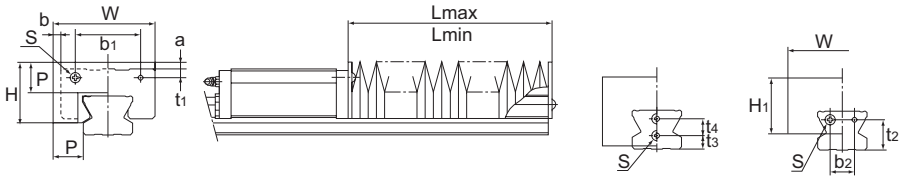
$$n = \frac{Lmax}{P \cdot k} = \frac{675}{10 \times 1.3} = 51.9 \fallingdotseq 52 \text{ crests}$$

$$Lmin = n \cdot \ell min + E = 52 \times 2.5 + 2 = 132$$

(E indicates the plate thickness of 2)
Therefore, the model number of the required bellows is DH20-132/675.

[Dedicated Bellows JS for Model SR]

The table below shows the dimensions of dedicated bellows JS for model SR. Specify the corresponding model number of the desired bellows from the table.



Models SR15 to 25 Models SR30 to 70

Unit: mm

Model No.		Main dimensions														A (Lmax/Lmin)	Supported model numbers	
		W	H	H_1	P	b_1	t_1	b_2	t_2	t_3	t_4	Mounting bolt S	a	b W/V	b TB/SB			
JS	15	51	24	26	15	22	3.4	—	—	8	—	M3×6ℓ	5	8.5	−0.5	5	SR	15
	20	58	26	30	15	25	4.2	—	—	6	6	M3×6ℓ	4	8	−0.5	5		20
	25	71	33	38	20	29	5	—	—	6	7	M3×6ℓ	7	11.5	−1	7		25
	30	76	37.5	37.5	20	42	5	12	17	—	—	M4×8ℓ	3	8	−7	7		30
	35	84	39	39	20	44	6.5	14	20	—	—	M5×10ℓ	1.5	7	−8	7		35
	45	95	47.5	47.5	20	60	8	22	27	—	—	M5×10ℓ	−1.5	5	−12.5	7		45
	55	108	55.5	55.5	25	70	10	24	28	—	—	M6×12ℓ	−0.5	4	−16	9		55
	70	144	67	67	30	90	13	34	35	—	—	M6×12ℓ	−3	9	—	10		70

Note1) When desiring to use the dedicated bellows other than in horizontal mount (i.e., vertical, wall and inverted mount), or when desiring a heat-resistant type of bellows, contact THK.
Note2) For lubrication when using the dedicated bellows, contact THK.
Note3) When using the dedicated bellows, the LM block and LM rail need to be machined so that the bellows can be mounted. Be sure to indicate that the dedicated bellows is required when ordering the LM Guide.

Model number coding

JS55 - 60/540

Model number of bellows for SR55

Dimensions of the bellows (length when compressed / length when extended)

Note) The length of the bellows is calculated as follow.

$$Lmin = \frac{S}{(A-1)}$$ S: Stroke length (mm)

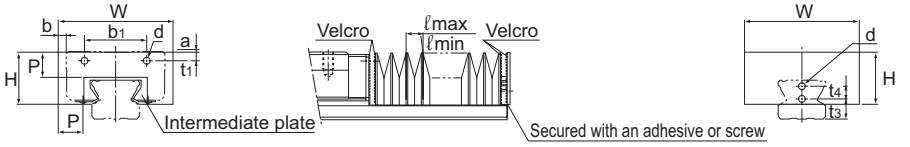
$Lmax = Lmin \cdot A$ A: Extension rate

[Dedicated Bellows DS for Model SR]

For models SR15, 20 and 25, bellows DS, which has the following features, is also available other than the dedicated bellows JS. Specify the corresponding model number of the desired bellows from the table.

● Features

(1) Has a width and height smaller than the conventional product so that any part of the bellows does not stick out of the top face of the LM block. The extension rate is equal to or greater than that of the conventional type.
(2) Has an intermediate plate for each crest so that it will not easily lift and the bellows can be used with vertical mount, wall mount and slant mount.
(3) Operable at high speed, at up to 120 m/min.
(4) Since a Velcro tape can be used to install the bellows, a regular-size model can be cut to the desired length, or two or more regular-size bellows can be taped together.
(5) Can be installed using screws just as the conventional type.
In this case, a plate (thickness: 1.6 mm) must be placed between the bellows and the LM bock. Contact THK for details.



Unit: mm

Model No.		Main dimensions																Supported model numbers	
											b				Extension rate		Factor		
		W	H	P	b_1	t_1	t_3	t_4	d	a	W/V	TB/SB	ℓmax	ℓmin	A	E	k		
DS	15	38	19	10	22	3.4	8	—	3.5	0	7	2	13	2.5	5	2	1.3	SR	15
	20	49	22	10	25	4.2	6	6	4	0	5	3.5	13	2.5	5	2	1.3		20
	25	56	26	12	29	5	6	7	4	0	8.5	4	15	3	5	2	1.3		25

Note1) For lubrication when using the dedicated bellows, contact THK.
Note2) When using the dedicated bellows, the LM block and LM rail need to be machined so that the bellows can be mounted. Be sure to indicate that the dedicated bellows is required when ordering the LM Guide.

Model number coding

DS20 - 50/250

Model number of bellows for SR20

Dimensions of the bellows (length when compressed / length when extended)

Note) The maximum length of the bellows itself is calculated as follows.
Lmax (Lmin) = ℓmax (ℓmin) ×200
Example of calculating bellows dimensions:
When the stroke of model SR20 is: ℓs=530mm

$$Lmin = \frac{\ell s}{(A-1)} = \frac{530}{4} = 132.5 \fallingdotseq 135$$

$$Lmax = A \cdot Lmin = 5 \times 135 = 675$$

Number of required crests n

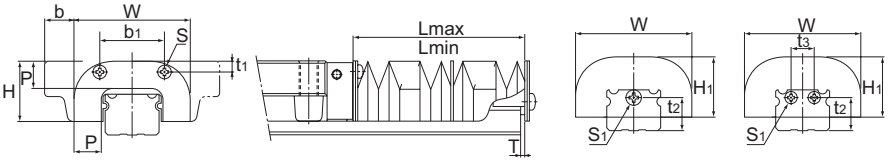
$$n = \frac{Lmax}{P \cdot k} = \frac{675}{10 \times 1.3} = 51.9 \fallingdotseq 52 \text{ crests}$$

$$Lmin = n \cdot \ell min + E = 52 \times 2.5 + 2 = 132$$

(E indicates the plate thickness of 2)
Therefore, the model number of the required bellows is DH20-132/675.

[Simplified Bellows JN Dedicated for Models NR/NRS]

For models NR/NRS, a simplified bellows is available. To gain a higher contamination protection effect, attach a telescopic cover outside the simplified bellows after the bellows is mounted.



Models NR/NRS 25X to 45 Models NR/NRS 55 to 100

Unit: mm

Model No.		Main dimensions											T	A (Lmax/Lmin)	Supported model numbers	
		W	H	H_1	P	b_1	t_1	t_2	t_3	Mounting bolt S	Mounting bolt S_1	b A,LA B,LB				
JN	25	48	25.5	25.5	10	26.6	4.6	13	—	M3×5ℓ	M4×4ℓ	11	1.5	7	NR/NRS	25X
	30	60	31	31	14	34	5.5	17	—	M4×8ℓ	M4×4ℓ	15	1.5	9		30
	35	70	35	35	15	36	6	20.5	—	M4×8ℓ	M5×4ℓ	15	2	10		35
	45	86	40.5	40.5	17	47	6.5	24	—	M5×10ℓ	M5×4ℓ	17	2	10		45
	55	100	49	49	20	54	10	29.5	18	M5×10ℓ	M5×4ℓ	20	2	13		55
	65	126	57.5	57.5	20	64	13.5	36.2	20	M6×12ℓ	M6×5ℓ	22	3.2	13		65
	75	145	64	64	30	80	10.5	34.2	26	M6×12ℓ	M6×5ℓ	25	3.2	20		75
	85	156	70.5	70.5	30	110	15.5	39.5	28	M6×12ℓ	M6×5ℓ	39.5	3.2	20		85
	100	200	82	82	30	140	15	40	34	M8×16ℓ	M6×5ℓ	30	3.2	20		100

Note1) When desiring to use the simplified bellows other than in horizontal mount (i.e., vertical, wall and inverted mount), or when desiring a heat-resistant type of bellows, contact THK.
Note2) For lubrication when using the simplified bellows, contact THK.
Note3) When using the simplified bellows, the LM block and LM rail need to be machined so that the bellows can be mounted. Be sure to indicate that the simplified bellows is required when ordering the LM Guide.

Model number coding

JN25 - 60/420

Model number of bellows for NR/NRS25X

Dimensions of the bellows (length when compressed / length when extended)

Note) The length of the bellows is calculated as follow.

$$L_{min} = \frac{S}{(A-1)}$$ S: Stroke length (mm)

$L_{max} = L_{min} \cdot A$ A: Extension rate

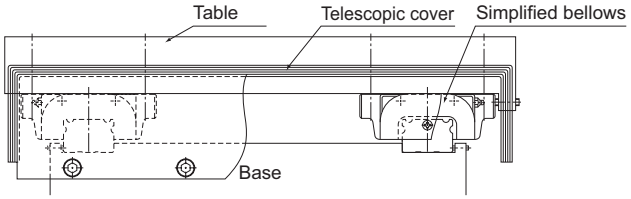
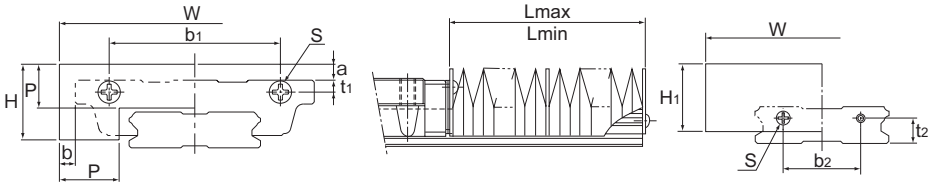


Fig.2 Example of Mounting the Simplified Bellows

[Dedicated Bellows JHRW for Model HRW]

The table below shows the dimensions of dedicated bellows JHRW for model HRW. Specify the corresponding model number of the desired bellows from the table.



Unit: mm

Model No.		Main dimensions										b		A (Lmax/Lmin)	Supported model numbers	
		W	H	H_1	P	b_1	t_1	b_2	t_2	Mounting bolt S	a	Model CA	Model CR			
JHRW	17	68	22	23	15	43	3	18	6	*M3×6ℓ	8	4	9	5	HRW	17
	21	75	25	26	17	48	3	22	7	M3×6ℓ	8	3.5	10.5	6		21
	27	85	33.5	33.5	20	48	3	20	10	M3×6ℓ	10	2.5	11.5	7		27
	35	120	35	35	20	75	3.5	40	13	M3×6ℓ	6	0	10	7		35
	50	164	42	42	20	100	9	50	16	M4×8ℓ	−3	1	17	7		50

Note1) For model JHRW17's location marked with "*", mounting bolts are used only on the LM rail side while the LM block side uses M2.5 x 8 (nominal) tapping screws.
Note2) When desiring to use the dedicated bellows other than in horizontal mount (i.e., vertical, wall and inverted mount), or when desiring a heat-resistant type of bellows, contact THK.
Note3) For lubrication when using the dedicated bellows, contact THK.
Note4) When using the dedicated bellows, the LM block and LM rail need to be machined so that the bellows can be mounted. Be sure to indicate that the dedicated bellows is required when ordering the LM Guide.

Model number coding

JHRW21 - 60/360

Model number of bellows for HRW21

Dimensions of the bellows (length when compressed / length when extended)

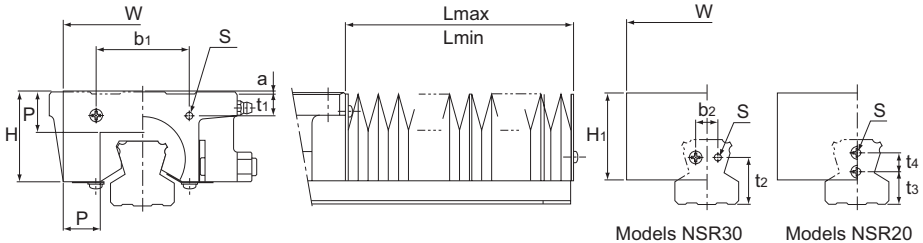
Note) The length of the bellows is calculated as follow.

$$L_{min} = \frac{S}{(A-1)}$$ S: Stroke length (mm)

$L_{max} = L_{min} \cdot A$ A: Extension rate

[Dedicated Bellows J for Model NSR-TBC]

The table below shows the dimensions of dedicated bellows J for model NSR-TBC. Specify the corresponding model number of the desired bellows from the table.



Unit: mm

Model No.		Main dimensions												A (Lmax/Lmin)	Supported model numbers	
		W	H	H_1	P	b_1	t_1	b_2	t_2	t_3	t_4	Mounting bolt S	a			
J	20	65	39	43	20	26	8	—	—	9	8	M4×8ℓ	8	7	NSR	20TBC
	25	75	43	45	20	40	11	—	—	12	8	M4×8ℓ	3	7		25TBC
	30	85	46	46	20	50	12	12	25	—	—	M4×8ℓ	—	7		30TBC
	40	115	59	59	25	60	13	16	32	—	—	M5×10ℓ	—	9		40TBC
	50	115	66	66	25	75	11	20	32	—	—	M5×10ℓ	—	9		50TBC
	70	124	84	78	25	96	16	36	40	—	—	M6×12ℓ	—	9		70TBC

Note1) When desiring to use the dedicated bellows other than in horizontal mount (i.e., vertical, wall and inverted mount), or when desiring a heat-resistant type of bellows, contact THK.
Note2) For lubrication when using the dedicated bellows, contact THK.
Note3) When using the dedicated bellows, the LM block and LM rail need to be machined so that the bellows can be mounted. Be sure to indicate that the dedicated bellows is required when ordering the LM Guide.

Model number coding

J50 - 60/540

- J50: Model number of bellows for NSR50TBC
- 60/540: Dimensions of the bellows (length when compressed / length when extended)

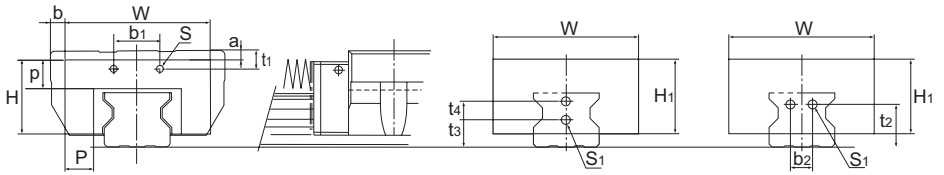
Note) The length of the bellows is calculated as follow.

$$L_{min} = \frac{S}{(A-1)}$$ S: Stroke length (mm)

$L_{max} = L_{min} \cdot A$ A: Extension rate

[Dedicated Bellows JSRG for Model SRG]

The table below shows the dimensions of dedicated bellows JSRG for model SRG. Specify the corresponding model number of the desired bellows from the table.



Models SRG15 and 30 Models SRG35 to 65

Unit: mm

Model No.		Main dimensions																		A Lmax/Lmin	Supported model numbers	
		W	H	H_1	P	p	b_1	t_1 A/C	t_1 R/V	b_2	t_2	t_3	t_4	Screw size S	Mounting bolt S_1	a A/C	a R/V	b A/C	b R/V			
JSRG	15	55	27	27	14.2	12.7	28	10.3	10.3	—	—	10.6	—	M2	M4	7	7	4	10.5	5	SRG	15
	20	66	32	32	17	15	38.5	9.6	9.6	—	—	7.4	8	M2	M3	6.6	6.6	1.5	11	6		20
	25	78	38	38	23	18	27.6	3.9	7.9	—	—	10	8	M2	M3×6ℓ	−6.5	−2.5	4	15	6		25
	30	84	42	42	22	19	37.4	10.4	13.4	—	—	11	10	M3	M4×8ℓ	−5	−2	3	12	7		30
	35	88	42	42	22	15	35	5	12	13	23	—	—	M3	M4×4ℓ	0	7	6	−9	5		35
	40	100	51	51	20	20	32	7	17	15	29	—	—	M3	M5×4ℓ	0	10	10	−7	7		45
	50	108	57	57	20	20	36	10	20	25	35	—	—	M3	M5×4ℓ	3	13	16	−4	7		55
	65	132	75.5	75.5	28.5	25	46	9	9	28	42	—	—	M4	M6×5ℓ	3	3	19	−3	9		65

Note1) When desiring to use the dedicated bellows other than in horizontal mount (i.e., vertical, wall and inverted mount), or when desiring a heat-resistant type of bellows, contact THK.
Note2) For lubrication when using the dedicated bellows, contact THK.
Note3) When using the dedicated bellows, the LM block and LM rail need to be machined so that the bellows can be mounted. Be sure to indicate that the dedicated bellows is required when ordering the LM Guide.

Model number coding

JSRG35 - 60/420

- JSRG35: Model number of bellows for SRG35
- 60/420: Dimensions of the bellows (length when compressed / length when extended)

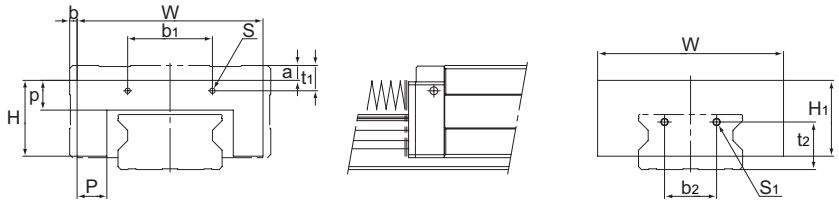
Note) The length of the bellows is calculated as follow.

$$Lmin = \frac{S}{(A-1)}$$ S: Stroke length (mm)

$Lmax = Lmin \cdot A$ A: Extension rate

[Dedicated Bellows JSRW for Model SRW]

The table below shows the dimensions of dedicated bellows JSRW for model SRW. Specify the corresponding model number of the desired bellows from the table.



Unit: mm

Model No.		Main dimensions													$\left(\frac{A}{\frac{Lmax}{Lmin}}\right)$	Supported model numbers	
		W	H	H_1	P	p	b_1	t_1	b_2	t_2	Screw size S	Mounting bolt S_1	a	b			
JSRW	70	125	51	51	20	20	57	17	35	32	M3	M5×4L	10	5	7	SRW	70
	85	138	57	57	20	20	68	20	42	36	M3	M5×4L	13	13.5	7		85
	100	169	75.5	75.5	28.5	25	83	19	50	46	M4	M6×5L	13	15.5	9		100

Note1) For lubrication when using the dedicated bellows, contact THK.
Note2) When desiring to use the dedicated bellows other than in horizontal mount (i.e., vertical, wall and inverted mount), or when desiring a heat-resistant type of bellows, contact THK.

Model number coding

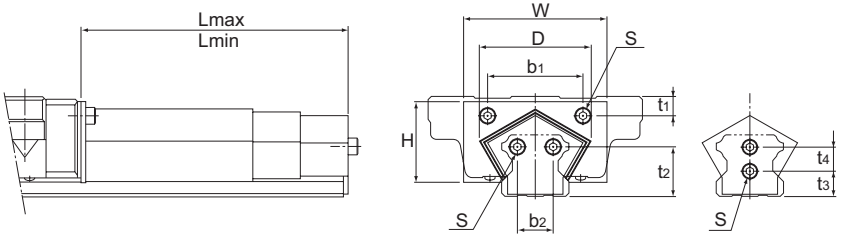
JSRW70 - 60/420

- JSRW70: Model number of bellows for SRW70
- 60/420: Dimensions of the bellows (length when compressed / length when extended)

LM Cover

[Dedicated LM Cover TPH for Model HSR]

The tables below show the dimensions of dedicated LM cover TPH for model HSR. Specify the corresponding model number of the desired bellows from the table.



Models HSR25 and 30

Unit: mm

Model No.		Main dimensions										Supported model numbers	
		W	D (max)	H	b_1	t_1	b_2	t_2	t_3	t_4	Mounting bolt S		
TPH	25	55	42	28	30	7	—	—	10	8	M3×6ℓ	HSR	25
	30	60	48	34	40	8	—	—	11	10	M4×8ℓ		30
	35	70	55	38	40	9	14	23	—	—	M4×8ℓ		35
	45	90	75	48	58	10	20	29	—	—	M5×10ℓ		45
	55	100	88	55	66	11	26	35	—	—	M5×10ℓ		55

Unit: mm

Model No.		Stage	L		Stroke
			min	max	
TPH	25	3	200	530	330
		3	150	380	230
		3	100	230	130
	30	3	250	680	430
		3	200	530	330
		3	150	380	230
	35	3	300	830	530
		3	250	680	430
		3	200	530	330
		3	150	380	230

Unit: mm

Model No.		Stage	L		Stroke
			min	max	
TPH	45	3	350	980	630
		3	300	830	530
		3	250	680	430
		3	200	530	330
	55	4	400	1460	1060
		4	350	1330	980
		4	300	1060	760
		4	250	860	610

Note1) For lubrication when using the dedicated LM cover, contact THK.

Note2) When using the dedicated LM cover, the LM block and LM rail need to be machined so that the bellows can be mounted. Be sure to indicate that the dedicated bellows is required when ordering the LM Guide.

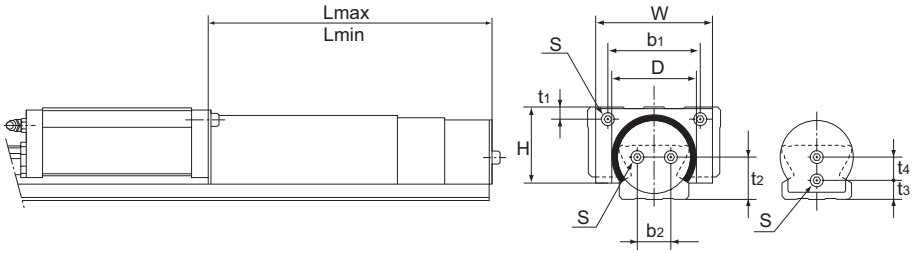
Model number coding

TPH55 - 400/1460

- TPH55: Model number of LM cover for HSR55
- 400: Lmin (cover length when compressed)
- 1460: Lmax (cover length when extended)

[Dedicated LM Cover TPS for Model SR]

The tables below show the dimensions of dedicated LM cover TPS for model SR. Specify the corresponding model number of the desired bellows from the table.



Models SR30 to 55 Model SR25

Unit: mm

Model No.		Main dimensions										Supported model numbers	
		W	D (max)	H	b_1	t_1	b_2	t_2	t_3	t_4	Mounting bolt S		
TPS	25	42	30	26.5	29	5	—	—	6	7	M3×6ℓ	SR	25
	30	54	37	34.5	42	5	12	17	—	—	M4×8ℓ		30
	35	64	42	38	44	6.5	14	20	—	—	M5×10ℓ		35
	45	76	55	48	60	8	22	27	—	—	M5×10ℓ		45
	55	90	61	54.5	70	10	24	28	—	—	M6×12ℓ		55

Unit: mm

Model No.		Stage	L		Stroke
			min	max	
TPS	25	3	200	530	330
		3	150	380	230
		3	100	230	130
	30	3	250	680	430
		3	200	530	330
		3	150	380	230
	35	3	300	830	530
		3	250	680	430
		3	200	530	330
		3	150	380	230

Unit: mm

Model No.		Stage	L		Stroke
			min	max	
TPS	45	3	350	980	630
		3	300	830	530
		3	250	680	430
		3	200	530	330
	55	4	400	1460	1060
		4	350	1330	980
		4	300	1060	760
		4	250	860	610

Note1) For lubrication when using the dedicated LM cover, contact THK.
Note2) When using the dedicated LM cover, the LM block and LM rail need to be machined so that the bellows can be mounted. Be sure to indicate that the dedicated bellows is required when ordering the LM Guide.

Model number coding

TPS55 - 400/1460

- TPS55: Model number of LM cover for SR55
- 400: Lmin (cover length when compressed)
- 1460: Lmax (cover length when extended)

Cap C

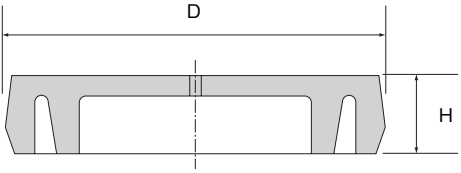
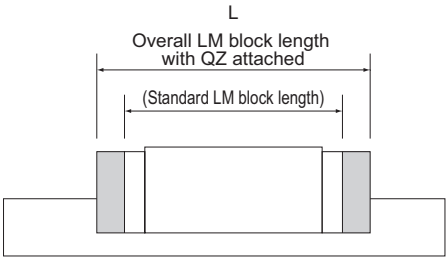


Table1 List of Model Numbers Supported for the Dedicated Cap C for LM Rail Mounting Holes

Model No.	Bolt used	Main dimensions (mm)		Supported model number														
		D	H	SSR	SCR	SR	SNR SNS	NR NRS	SHS HSR CSR HCR	HMG	SHW HRW	SRG SRN	GSR	HR	SRS RSR RSH	SRS-W RSR-W RSH-W	NSR-TBC	SRW
C3	M3	6.3	1.2	—	—	15	—	—	12	—	—	—	—	1123 1530	12 15	9	—	—
C4	M4	7.8	1.0	15Y	—	—	—	—	15	15	12, 14, 17, 21, 27	15	15	2042	—	—	—	—
C5	M5	9.8	2.4	20	—	20	25	25X	20	—	—	20	20	—	20	—	20	—
C6	M6	11.4	2.7	25Y 30	25	25Y 30	30	30	25	25	35	25	25	—	25	—	25 30	—
C8	M8	14.4	3.7	35	30 35	35	35	35	30 35	35	50	30 35	30	2555 3065	—	—	40	—
C10	M10	18.0	3.7	—	—	45	—	—	—	—	60	—	35	3575	—	—	50	70
C12	M12	20.5	4.7	—	45	55	45	45	45	45	—	45	—	4085	—	—	70	85
C14	M14	23.5	5.7	—	—	—	55	55	55	—	—	55	—	—	—	—	—	100
C16	M16	26.5	5.7	—	65	70 85	65	65	65	65	—	65	—	5010 5	—	—	—	—
C22	M22	35.5	5.7	—	—	—	—	85	85	—	—	—	—	—	—	—	—	—

Note) The dedicated cap for the LM rail mounting hole can be made of other materials (e.g., metal). Contact THK for details.

LM Block Dimension (Dimension L) with QZ Attached



Unit: mm

Model No.			L								
		Standard overall length	QZUU	QZSS	QZDD	QZZZ	QZKK	QZSSHH	QZDDHH	QZZZHH	QZKKHH
SHS	15C/V/R	64.4	84.4	84.4	89.8	86.8	92.2	100	105.4	101.2	106.6
	15LC/LV	79.4	99.4	99.4	104.8	101.8	107.2	115	120.4	116.2	121.6
	20C/V	79	99	99	105.4	103	109.4	115.4	121.8	117.8	124.2
	20LC/LV	98	118	118	124.4	122	128.4	134.4	140.8	136.8	143.2
	25C/V/R	92	114.4	114.4	121.6	120.4	127.6	132	139.2	134.4	141.6
	25LC/LV/LR	109	131.4	131.4	138.6	137.4	144.6	149	156.2	151.4	158.6
	30C/V/R	106	127.4	127.4	136	133.8	142.4	149.4	158	151.8	160.4
	30LC/LV/LR	131	152.4	152.4	161	158.8	167.4	174.4	183	176.8	185.4
	35C/V/R	122	145	145	154.8	152.4	162.2	168	177.8	170.4	180.2
	35LC/LV/LR	152	175	175	184.8	182.4	192.2	198	207.8	200.4	210.2
	45C/V/R	140	173	173	182.8	181.2	191	199	208.8	202.2	212
	45LC/LV/LR	174	207	207	216.8	215.2	225	233	242.8	236.2	246
	55C/V/R	171	205.4	205.4	216.6	214.2	225.4	232	243.2	235.2	246.4
	55LC/LV/LR	213	247.4	247.4	258.6	256.2	267.4	274	285.2	277.2	288.4
	65C/V	221	256.2	256.2	268.6	266.2	278.6	288	300.4	291.2	303.6
	65LC/LV	272	307.2	307.2	319.6	317.2	329.6	339	351.4	342.2	354.6
SSR	15XVY	40.3	59.3	59.3	65.1	62.7	68.5	75.5	81.3	76.7	82.5
	15XWY/XTBY	56.9	75.9	75.9	81.7	79.3	85.1	92.1	97.9	93.3	99.1
	20XV	47.7	66.2	66.2	73.1	72.1	79	83.7	90.6	86.1	93
	20XW/XTB	66.5	85	85	91.9	90.9	97.8	102.5	109.4	104.9	111.8
	25XVY	60	82.6	82.6	90	88.4	95.8	100	107.4	102.4	109.8
	25XWY/XTBY	83	105.6	105.6	113	111.4	118.8	123	130.4	125.4	132.8
	30XW	97	119.7	119.7	127.8	125.4	133.5	141	149.1	143.4	151.5
	35XW	110.9	134.3	134.3	143.3	141.3	150.3	156.9	165.9	159.3	168.3
SNR/ SNS	25R/C	82.8	105.2	105.2	112.8	110.9	118.5	122.5	130.1	124.9	132.5
	25LR/LC	102	124.4	124.4	132	130.1	137.7	141.7	149.3	144.1	151.7
	30R/C	98	121.2	121.2	131	126.9	136.7	141.7	151.5	144.1	153.9
	30LR/LC	120.5	143.7	143.7	153.5	149.4	159.2	164.2	174	166.6	176.4
	35R/C	109.5	142.7	142.7	152.9	149.5	159.7	164.3	174.5	166.7	176.9
	35LR/LC	135	168.2	168.2	178.4	175	185.2	189.8	200	192.2	202.4
	45R/C	138.2	171.4	171.4	181.6	179	189.2	196.4	206.6	199.6	209.8
	45LR/LC	171	204.2	204.2	214.4	211.8	222	229.2	239.4	232.4	242.6
	55R/C	163.3	204.5	204.5	214.7	213.2	223.4	231	241.2	234.2	244.4
	55LR/LC	200.5	241.7	241.7	251.9	250.4	260.6	268.2	278.4	271.4	281.6
	65R/C	186	227.6	227.6	238.2	236.3	246.9	257.5	268.1	260.7	271.3
	65LR/LC	246	287.6	287.6	298.2	296.3	306.9	317.5	328.1	320.7	331.3
SHW	12CAM/CRM	37	47	47	—	—	—	—	—	—	—
	12HRM	50.4	60.4	60.4	—	—	—	—	—	—	—

Unit: mm

Model No.			L								
		Standard overall length	QZUU	QZSS	QZDD	QZZZ	QZKK	QZSSHH	QZDDHH	QZZZHH	QZKKHH
SHW	14CAM/CRM	45.5	55.5	55.5	—	—	—	—	—	—	—
	17CAM/CRM	51	63	63	66	65.4	68.4	—	—	—	—
	21CA/CR	59	75	75	80	77.8	82.8	91.6	96.6	93.2	98.2
	27CA/CR	72.8	92.8	92.8	98.6	96.4	102.2	109.4	115.2	111.8	117.6
	35CA/CR	107	127	127	134.4	132	134.4	149	156.4	151.4	158.8
	50CA/CR	141	161	161	169.2	167.4	175.6	186	194.2	188.4	196.6
SRS	7	23.4	33.4	33.4	—	—	—	—	—	—	—
	7W	31	41	41	—	—	—	—	—	—	—
	9	30.8	40.8	40.8	—	—	—	—	—	—	—
	9W	39	49	49	—	—	—	—	—	—	—
	12	34.4	44.4	44.4	—	—	—	—	—	—	—
	12W	44.5	54.5	54.5	—	—	—	—	—	—	—
	15	43	55	55	—	—	—	—	—	—	—
	15W	55.5	67.5	67.5	—	—	—	—	—	—	—
	20	50	66	66	—	—	—	83.2	—	—	—
	25	77	97	97	—	—	—	115.2	—	—	—
SCR	15S	64.4	84.4	84.4	89.8	86.8	92.2	100.4	105.4	101.4	106.9
	20S	79	99	99	105.4	103	109.4	115.5	122	118	124.5
	20	98	118	118	124.4	122	128.4	134.5	141	137	143.5
	25	109	131.4	131.4	138.6	137.4	144.6	149	156.2	151.4	158.6
	30	131	152.4	152.4	161	158.8	167.4	174.4	183	176.8	185.4
	35	152	175	175	184.8	182.4	192.2	198	207.8	200.4	210.2
	45	174	207	207	216.8	215.2	225	233	242.8	236.2	246
	65	272	307.2	307.2	319.6	317.2	329.6	339	351.4	342.2	354.6
HSR	15A/B/R/YR	56.6	79.6	79.6	87.6	84.2	92.2	98.8	106.8	100.0	108.0
	20A/B/R/CA/CB/YR	74	96.2	96.2	104.4	102	110.2	113.6	121.8	116	124.2
	20LA/LB/LR/HA/HB	90	112.2	112.2	120.4	118	126.2	129.6	137.8	132	140.2
	25A/B/R/CA/CB/YR	83.1	104.1	104.1	112.1	109.8	117.8	121.4	129.4	123.8	131.8
	25LA/LB/LR/HA/HB	102.2	123.2	123.2	131.2	128.9	136.9	140.5	148.5	142.9	150.9
	30A/B/R/CA/CB/YR	98	119	119	127	124.7	132.7	140.3	148.3	142.7	150.7
	30LA/LB/LR/HA/HB	120.6	141.6	141.6	149.6	147.3	155.3	162.9	170.9	165.3	173.3
	35A/B/R/CA/CB/YR	109.4	132.2	132.2	142	139	148.8	154.6	164.4	157	166.8
	35LA/LB/LR/HA/HB	134.8	157.6	157.6	167.4	164.4	174.2	180	189.8	182.4	192.2
	45A/B/R/CA/CB/YR	139	174.8	174.8	181.6	176.6	186.4	—	—	—	—
	45LA/LB/LR/HA/HB	170.8	206.6	206.6	213.4	208.4	218.2	—	—	—	—
	55A/B/R/CA/CB/YR	163	197.2	197.2	208.4	202	213.2	—	—	—	—
	55LA/LB/LR/HA/HB	201.1	235.3	235.3	246.5	240.1	251.3	—	—	—	—
	65A/B/R/CA/CB/YR	186	221.4	221.4	233.8	226.6	239	—	—	—	—
	65LA/LB/LR/HA/HB	245.5	280.9	280.9	293.3	286.1	298.5	—	—	—	—
NR/ NRS	25XR/XA/XB	82.8	105.2	105.2	112.8	110.9	118.5	122.5	130.1	124.9	132.5
	25XLR/XLA/XLB	102	124.4	124.4	132	130.1	137.7	141.7	149.3	144.1	151.7
	30R/A/B	98	120.4	120.4	129.4	126.1	135.1	141.7	150.7	144.1	153.1
	30LR/LA/LB	120.5	142.9	142.9	151.9	148.6	157.6	164.2	173.2	166.6	175.6
	35R/A/B	109.5	142.7	142.7	152.9	149.5	159.7	164.3	174.5	166.7	176.9
	35LR/LA/LB	135	168.2	168.2	178.4	175	185.2	189.8	200	192.2	202.4
	45R/A/B	139	172.2	172.2	182.4	179.8	190	197.6	207.8	200.8	211
	45LR/LA/LB	171	204.2	204.2	214.4	211.8	222	229.6	239.8	232.8	243
	55R/A/B	162.8	204.8	204.8	215	213.5	223.7	231.3	241.5	234.5	244.7
	55LR/LA/LB	200	242	242	252.2	250.7	260.9	268.5	278.7	271.7	281.9
	65R/A/B	185.6	227.6	227.6	238.2	236.3	246.9	258.1	268.7	261.3	271.9
	65LR/LA/LB	245.6	287.6	287.6	298.2	296.3	306.9	318.1	328.7	321.3	331.9

Unit: mm

Model No.		Standard overall length	L								
			QZUU	QZSS	QZDD	QZZZ	QZKK	QZSSHH	QZDDHH	QZZZHH	QZKKHH
RSR	9	31	40.8	—	—	—	—	—	—	—	—
	9N	41	50.8	—	—	—	—	—	—	—	—
	9W	39	49	—	—	—	—	—	—	—	—
	9WN	51	60.7	—	—	—	—	—	—	—	—
RSR	12	35	45	—	—	—	—	—	—	—	—
	12N	47.5	57.7	—	—	—	—	—	—	—	—
	12W	44.5	54.5	—	—	—	—	—	—	—	—
	12WN	59.5	69.5	—	—	—	—	—	—	—	—
	15	43	55	—	—	—	—	—	—	—	—
	15N	61	72.7	—	—	—	—	—	—	—	—
	15W	55.5	67.5	—	—	—	—	—	—	—	—
	15WN	74.5	86.5	—	—	—	—	—	—	—	—
SRG	15A/V	69	92	92	94	—	—	—	—	—	—
	20A/V	86	109	109	111	112.4	114.4	126.6	128.6	129	131
	20LA/LV	106	129	129	131	132.4	134.4	146.6	148.6	149	151
	25C/R	95.5	125.5	125.5	130.5	130.5	135.5	145.3	151.7	147.7	154.1
	25LC/LR	115.1	145.1	145.1	150.1	150.1	155.1	164.9	171.3	167.3	173.7
	30C/R	111	141	141	148	146	153	160.8	169.2	164.6	171.6
	30LC/LR	135	165	165	172	170	177	184.8	193.2	188.6	195.6
	35C/R	125	155	155	162.8	163.4	171.2	178.6	186.4	181	188.8
	35LC/LR	155	185	185	192.8	193.4	201.2	208.6	216.4	211	218.8
	45C/R	155	185	185	194.2	194.2	203.4	212	221.2	215.2	224.5
	45LC/LR	190	220	220	229.2	229.2	238.4	247	256.2	250.2	259.4
	55C/R	185	225	225	234.2	234.2	243.4	252	261.2	255.2	264.4
	55LC/LR	235	275	275	284.2	284.2	293.4	302	311.2	305.2	314.4
	65LC/LV	303	343	343	354.2	354.2	365.4	375.4	386.6	378.6	389.8
SRN	35C/R	125	155	155	162.8	163.4	171.2	178.6	186.4	181	188.8
	35LC/LR	155	185	185	192.8	193.4	201.2	208.6	216.4	211	218.8
	45C/R	155	185	185	194.2	194.2	203.4	212	221.2	215.2	224.5
	45LC/LR	190	220	220	229.2	229.2	238.4	247	256.2	250.2	259.4
	55C/R	185	225	225	234.2	234.2	243.4	252	261.2	255.2	264.4
	55LC/LR	235	275	275	284.2	284.2	293.4	302	311.2	305.2	314.4
	65LC/LR	303	343	343	354.2	354.2	365.4	375.4	386.6	378.6	389.8
SRW	70	190	220	220	229.2	229.2	238.4	247	256.2	250.2	259.4
	85	235	275	275	284.2	284.2	293.4	302	311.2	305.2	314.4
	100	303	343	343	354.2	354.2	365.4	375.4	386.6	378.6	389.8

Model number coding

SHS25 LC 2 QZ KKHH C0 +1200L P T Z -II

- SHS25: Model number
- LC: Type of LM block
- 2: No. of LM blocks used on the same rail
- QZ: With QZ Lubricator (*1)
- KKHH: Contamination protection accessory symbol (*2)
- C0: Radial clearance symbol (*3) — Normal (No symbol), Light preload (C1), Medium preload (C0)
- +1200L: LM rail length (in mm)
- P: Symbol for LM rail jointed use
- T: With steel tape
- Z: Accuracy symbol (*4) — Normal grade (No Symbol), High accuracy grade (H), Precision grade (P)/Super precision grade (SP), Ultra precision grade (UP)
- -II: Symbol for No. of rails used on the same plane (*5)

(*1) See A-361. (*2) See A-368. (*3) See A-113. (*4) See A-118. (*5) 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.)
Those models equipped with QZ Lubricator cannot have a grease nipple.

Lubrication Adapter

An oil lubricant-only lubrication adapter is available for models NR/NRS.
Even if the LM Guide is installed in an orientation where oil lubrication is difficult, such as wall mount and inversed mount, the adapter is capable of feeding a constant quantity of lubricant to the four raceways.

[Features]

The dedicated lubrication adapter for models NR-NRS is built in with a constant quantity distributor. Therefore, the adapter can accurately feed a constant quantity of lubricant to each raceway regardless of the mounting orientation.
The adapter is economical since it is capable of constantly feeding the optimum amount of lubricant and helping eliminate the supply of surplus lubricant.
To provide pipe arrangement, simply connect an intermittent lubrication pump widely used for ordinary machine tools to the greasing holes (M8) on the front and the side of the lubrication adapter.

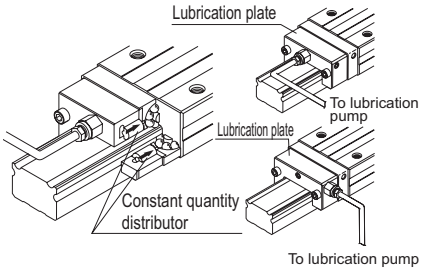


Fig.3 Structural Drawing

[Specifications]

Viscosity range of lubricant used	32 to 64 mm²/s recommended
Discharge	0.03×4, 0.06×4cc/1shot
Diameter of pipe connected	ϕ4, ϕ6
Material	Aluminum alloy

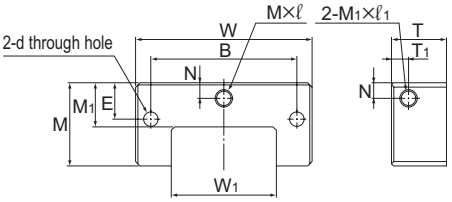


Fig.4

Table2 Dimension Table for Lubrication Adapter — Unit: mm

Model No.	Main dimensions												Quantity per shot (cc/shot)
	Width W	Height M	T	W_1	M_1	B	E	N	T_1	d	M×ℓ	M_1×ℓ_1	
A30N	56	29	25	29	14.5	46	14	5	5.3	3.5	M8×8	M8×8	0.03×4
A35N	66	33	25	35	17	54	16.5	6	5.3	4.5	M8×8	M8×8	
A45N	81	38	25	48	20	67	16.5	7	7.8	6.6	M8×8	M8×8	
A55N	94	45.5	25	56	22	76	20.5	7	7.8	6.6	M8×8	M8×8	0.06×4
A65N	119	55.5	25	67	26.3	92	25.5	11.5	7.8	9	M8×8	M8×8	
A85N	147	68.5	25	92	34	114	32	15.5	7.8	9	M8×8	M8×8	

End Piece EP

For those models whose balls may fall if the LM rail is pulled out of the LM block, an end piece is attached to the product to prevent the LM block from being removed from the LM rail.
For models that can use the end piece, see the table below.
If removing the end piece when using the LM Guide, be sure that the LM block will not overshoot.
The end piece can also be used as a fixing jig for a steel tape, and is available also for the LM rail of models SSR, SR and HSR.

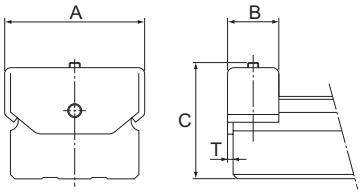


Fig.5 End Piece EP for Models NR/NRS

Table3 Dimension Table for End Piece EP for Models NR/NRS
Unit: mm

Model No.	A	B	C	T
NR/NRS 25X	26	14	25	1.5
NR/NRS 30	31	14	31	1.5
NR/NRS 35	38	16	32.5	2
NR/NRS 45	49	18	41	2
NR/NRS 55	57	20	46.5	2
NR/NRS 65	69.4	22	59	3.2
NR/NRS 75	81.7	28	56	3.2
NR/NRS 85	91.4	22	68	3.2
NR/NRS 100	106.4	25	73	3.2

Greasing Hole

[Grease Nipple and Greasing Hole for Models SHW and SRS]

Models SHW and SRS do not have a grease nipple as standard. Installation of a grease nipple and the drilling of a greasing hole is performed at THK. When ordering SHW and SRS, indicate that the desired model requires a grease nipple or greasing hole. (For greasing hole dimensions and supported grease nipple types and dimensions, see Table4.)

When using SHW and SRS under harsh conditions, use QZ Lubricator* (optional) or Laminated Contact Scraper LaCS* (optional).

Note1) Grease nipple is not available for models SHW12, SHW14, SRS9M, SRS9WM, SRS12M and SRS12WM. They can have a greasing hole.
Note2) Using a greasing hole other than for greasing may cause damage.
Note3) For QZ Lubricator*, see A-361. For Laminated Contact Scraper LaCS*, see A-353.
Note4) When desiring a grease nipple for a model attached with QZ Lubricator, contact THK.

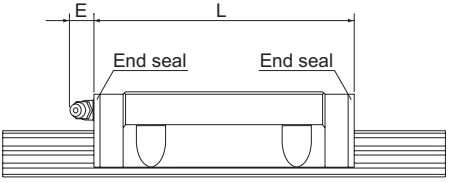


Fig.6 Dimensions of the Grease Nipple for Model SHW

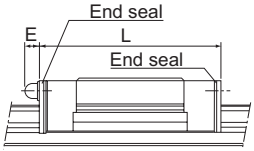


Fig.7 Dimensions of the Grease Nipple for Model SRS

Note) For the L dimension, see the corresponding specification table.

Table4 Table of Grease Nipple and Greasing Hole Dimensions

Unit: mm

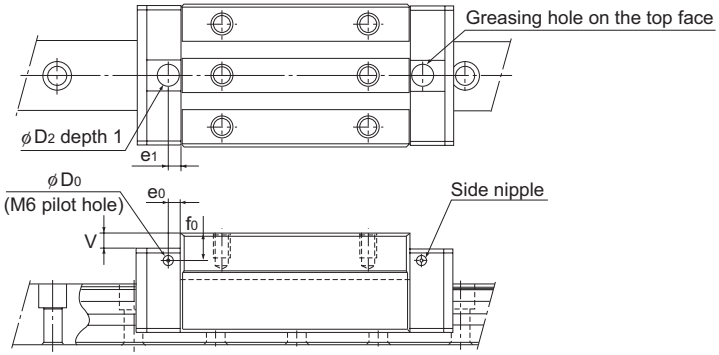
Model No.		E	Grease nipple or greasing hole
SHW	12	—	ϕ2.2 drilled hole
	14	—	ϕ2.2 drilled hole
	17	5	PB107
	21	5.5	PB1021B
	27	12	B-M6F
	35	12	B-M6F
	50	16	B-PT1/8
SRS	9M	—	ϕ1.5 drilled hole
	9WM	—	ϕ1.6 drilled hole
	12M	—	ϕ2.0 drilled hole
	12WM	—	ϕ2.0 drilled hole
	15M	4.0 (5.0)	PB107
	15WM	4.0 (5.0)	PB107
	20M	3.5 (5.0)	PB107
	25M	4.0 (5.5)	PB1021B

Note) Figures in the parentheses indicate dimensions without a seal.

[Greasing Hole for Model SRG]

Model SRG allows lubrication from both the side and top faces of the LM block. The greasing hole of standard types is not drilled through in order to prevent foreign material from entering the LM block. When using the greasing hole, contact THK.

When using the greasing hole on the top face of models SRG-R and SRG-LR, a greasing adapter is separately required. Contact THK for details.



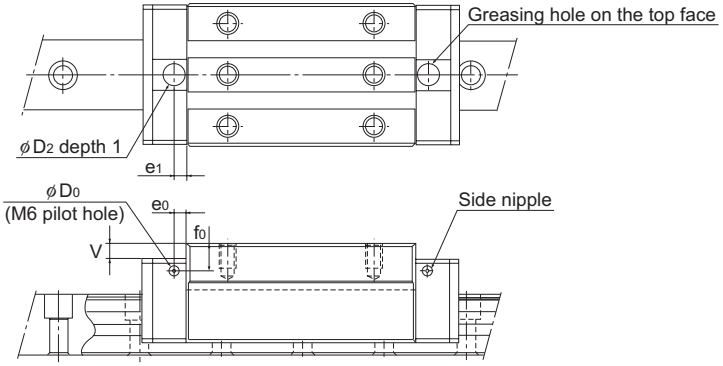
Unit: mm

Model No.		Pilot hole for side nipple			Applicable nipple	Greasing hole on the top face			
		e_0	f_0	D_0		D_2	(O-ring)	V	e_1
SRG	15A 15V	4	4	2.9	PB107	9.2	(P6)	0.5	5.5
	20A 20LA	4	5	2.9	PB107	9.2	(P6)	0.5	6.5
	20V 20LV	4	5	2.9	PB107	9.2	(P6)	0.5	6.5
	25C 25LC	6	6.3	5.2	M6F	10.2	(P7)	0.5	6
	25R 25LR	6	10.3	5.2	M6F	10.2	(P7)	4.5	6
	30C 30LC	6	5.8	5.2	M6F	10.2	(P7)	0.4	6
	30R 30LR	6	8.8	5.2	M6F	10.2	(P7)	3.4	6
	35C 35LC	6	6	5.2	M6F	10.2	(P7)	0.4	6
	35R 35LR	6	13	5.2	M6F	10.2	(P7)	7.4	6
	45C 45LC	7	7	5.2	M6F	10.2	(P7)	0.4	7
	45R 45LR	7	17	5.2	M6F	10.2	(P7)	10.4	7
	55C 55LC	9	8.5	5.2	M6F	10.2	(P7)	0.4	11
	55R 55LR	9	18.5	5.2	M6F	10.2	(P7)	10.4	11
	65LC	9	13.5	5.2	M6F	10.2	(P7)	0.4	10
	65LV	9	13.5	5.2	M6F	10.2	(P7)	0.4	10

Note) The greasing interval is longer than that of full-roller types because of the roller cage effect. However, the actual greasing interval may vary depending on the service environment, such as a high load and high speed. Contact THK for details.

[Greasing Hole for Model SRN]

Model SRN allows lubrication from both the side and top faces of the LM block. The greasing hole of standard types is not drilled through in order to prevent foreign material from entering the LM block. When using the greasing hole, contact THK.



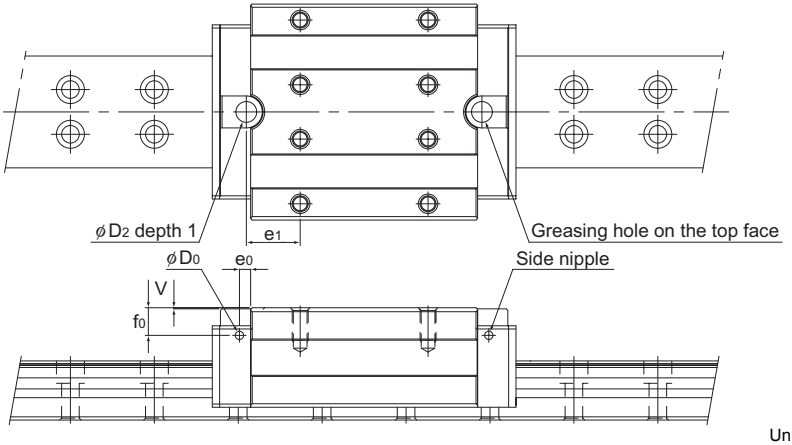
Unit: mm

Model No.		Pilot hole for side nipple			Applicable nipple	Greasing hole on the top face			
		e_0	f_0	D_0		D_2	(O-ring)	V	e_1
SRN	35C 35LC	8	6.5	5.2	M6F	10.2	(P7)	0.4	6
	35R 35LR	8	6.5	5.2	M6F	10.2	(P7)	0.4	6
	45C 45LC	8.5	7	5.2	M6F	10.2	(P7)	0.4	7
	45R 45LR	8.5	7	5.2	M6F	10.2	(P7)	0.4	7
	55C 55LC	10	8	5.2	M6F	10.2	(P7)	0.4	11
	55R 55LR	10	8	5.2	M6F	10.2	(P7)	0.4	11
	65LC	9	11	5.2	M6F	10.2	(P7)	0.4	10
	65LR	9	11	5.2	M6F	10.2	(P7)	0.4	10

Note) The greasing interval is longer than that of full-roller types because of the roller cage effect. However, the actual greasing interval may vary depending on the service environment, such as a high load and high speed. Contact THK for details.

[Greasing Hole for Model SRW]

Model SRW allows lubrication from both the side and top faces of the LM block. The greasing hole of standard types is not drilled through in order to prevent foreign material from entering the LM block. When using the greasing hole, contact THK.



Unit: mm

Model No.		Pilot hole for side nipple			Applicable nipple	Greasing hole on the top face			
		e_0	f_0	D_0		D_2	(O-ring)	V	e_1
SRW	70	7	17	5.2	M6F	13	(P10)	0.4	33.7
	85	9	17.7	5.2	M6F	13	(P10)	0.4	42.75
	100	9	22.4	5.2	M6F	13	(P10)	0.4	55

Note) The greasing interval is longer than that of full-roller types because of the roller cage effect. However, the actual greasing interval may vary depending on the service environment, such as a high load and high speed. Contact THK for details.