

SCR



Caged Ball LM Guides

B Product Specifications

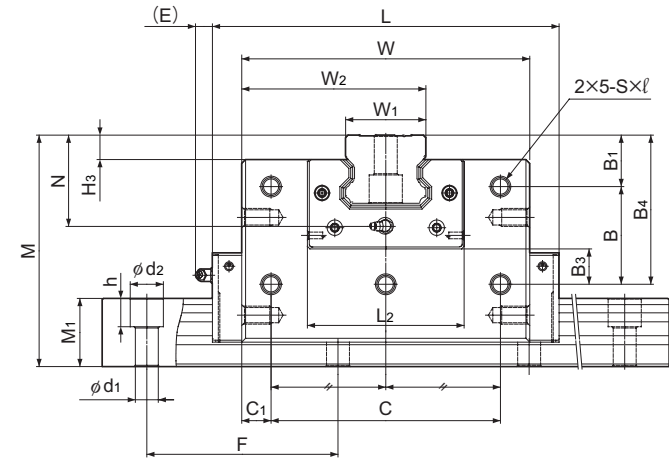
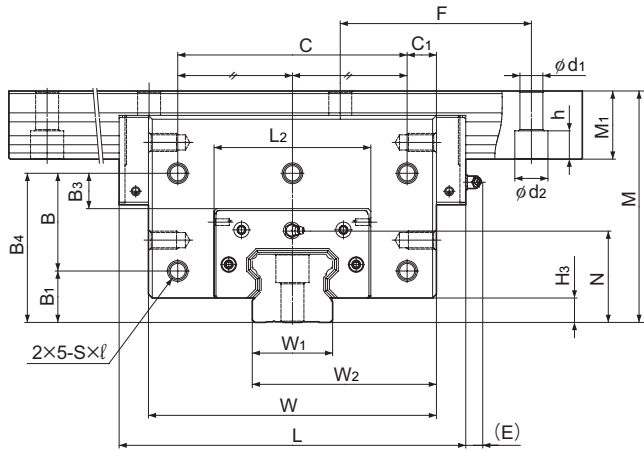
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* Please see the separate "A Technical Descriptions of the Products".

Model SCR



Unit: mm

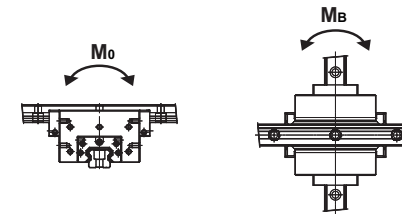
Model No.	Outer dimensions			LM block dimensions											LM rail dimensions					Basic load rating		Static permissible moment		Mass		
	Height	Width	Length	B ₁	B ₃	B ₄	B	C	C ₁	S×ℓ	L ₂	H ₃	N	E	Grease nipple	Width W ₁ 0 -0.05	W ₂	Height M ₁	Pitch F	Mounting hole d ₁ ×d ₂ ×h	C	C ₀	M ₀	M _B	LM block kg	LM rail kg/m
	M	W	L																							
SCR 15S	47	48	64.4	—	12.2	34.8	—	20	14	M4×6	33.4	3	18.5	5.5	PB-1021B	15	31.5	13	60	4.5×7.5×5.3	14.2	24.2	0.16	0.296	0.54	1.3
SCR 20S	57	59	79	—	13	42.5	—	30	14.5	M5×8	43	4.6	23.5	12	B-M6F	20	39.5	16.5	60	6×9.5×8.5	22.3	38.4	0.361	0.334	0.88	2.3
SCR 25	70	88	109	18	9	44	26	64	12	M6×10	47.4	5.8	28.5	12	B-M6F	23	55.5	20	60	7×11×9	36.8	64.7	0.696	0.85	3.4	3.2
SCR 30	82	105	131	21	12	53	32	76	14.5	M6×10	58	7	34	12	B-M6F	28	66.5	23	80	9×14×12	54.2	88.8	1.15	1.36	4.6	4.5
SCR 35	95	123	152	24	14	61	37	90	16.5	M8×14	68	7.5	40	12	B-M6F	34	78.5	26	80	9×14×12	72.9	127	2.01	2.34	6.8	6.2
SCR 45	118	140	174	30	16.5	75	45	110	15	M10×15	84.6	8.9	49.5	16	B-PT1/8	45	92.5	32	105	14×20×17	100	166	3.53	3.46	10.8	10.4
SCR 65	180	226	272	40	27.5	116	76	180	23	M14×22	123	19	71	16	B-PT1/8	63	144.5	53	150	18×26×22	253	408	11.9	13.3	44.5	23.7

Model number coding

4 SCR25 QZ KKHH C0 +1200/1000L P

4: Total No. of LM blocks
 SCR25: Model number
 QZ: With QZ Lubricator
 KKHH: Contamination protection accessory symbol (*1)
 C0: Radial clearance symbol (*2) Normal (No symbol)/Light preload (C1) Medium preload (C0)
 +1200/1000L: LM rail length on the X axis (in mm) / LM rail length on the Y axis (in mm)
 P: Accuracy symbol (*3) Precision grade (P) Super precision grade (SP) Ultra precision grade (UP)

(*1) See contamination protection accessory on A-368. (*2) See A-113. (*3) See A-122.



Standard Length and Maximum Length of the LM Rail

Table1 shows the standard lengths and the maximum lengths of model SCR variations. If the maximum length of the desired LM rail exceeds them, jointed rails will be used. Contact THK for details. For the G dimension when a special length is required, we recommend selecting the corresponding G value from the table.

The longer the G dimension is, the less stable the G area may become after installation, thus causing an adverse impact to accuracy.

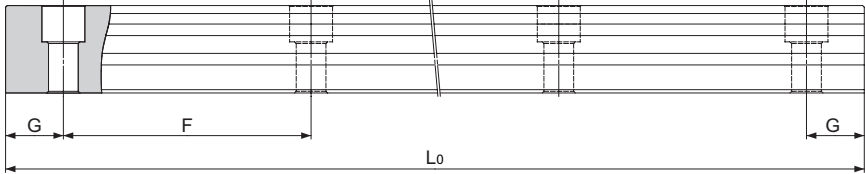


Table1 Standard Length and Maximum Length of the LM Rail for Model SCR

Unit: mm

Model No.	SCR 15	SCR 20	SCR 25	SCR 30	SCR 35	SCR 45	SCR 65
LM rail standard length (L ₀)	160	220	220	280	280	570	1270
	220	280	280	360	360	675	1570
	280	340	340	440	440	780	2020
	340	400	400	520	520	885	2620
	400	460	460	600	600	990	
	460	520	520	680	680	1095	
	520	580	580	760	760	1200	
	580	640	640	840	840	1305	
	640	700	700	920	920	1410	
	700	760	760	1000	1000	1515	
	760	820	820	1080	1080	1620	
	820	940	940	1160	1160	1725	
	940	1000	1000	1240	1240	1830	
	1000	1060	1060	1320	1320	1935	
	1060	1120	1120	1400	1400	2040	
	1120	1180	1180	1480	1480	2145	
	1180	1240	1240	1560	1560	2250	
	1240	1360	1300	1640	1640	2355	
	1360	1480	1360	1720	1720	2460	
	1480	1600	1420	1800	1800	2565	
1600	1720	1480	1880	1880	2670		
	1840	1540	1960	1960	2775		
	1960	1600	2040	2040	2880		
	2080	1720	2200	2200	2985		
	2200	1840	2360	2360	3090		
		1960	2520	2520			
		2080	2680	2680			
		2200	2840	2840			
		2320	3000	3000			
		2440					
Standard pitch F	60	60	60	80	80	105	150
G	20	20	20	20	20	22.5	35
Max length	2500	3000	3000	3000	3000	3090	3000

Tapped-hole LM Rail Type of Model SCR

The model SCR variations include a type with its LM rail bottom tapped. With the X-axis LM rail having tapped holes, this model can be secured with bolts from the top.

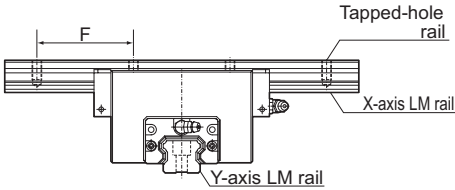


Table2 Dimensions of the LM Rail Tap

Unit: mm

Model No.	Tap diamete	Tap depth
15	M5	8
20	M6	10
25	M6	12
30	M8	15
35	M8	17
45	M12	20
65	M20	30

Model number coding

4 SCR35 KKHH C0 +1000L P K/1000L P

Symbol for
 tapped-hole LM rail type