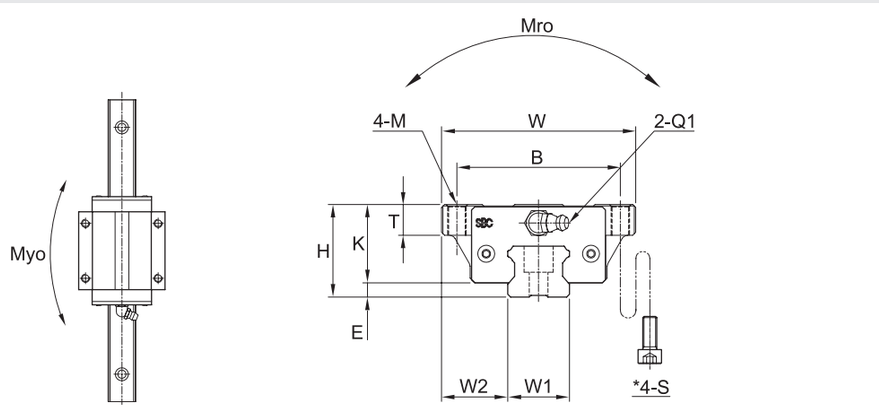
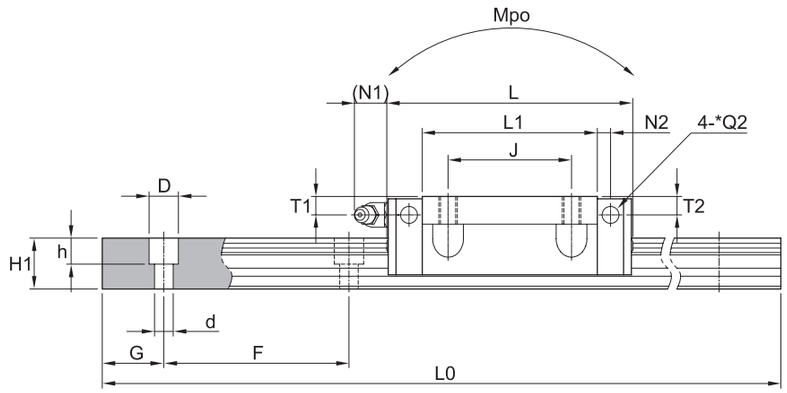
Linear Rail System

SBI High-load Linear Rail System

SBI-FL/FLS/FLL





(Unit : mm)

Model	Mounting dimension				Block dimensions												
	H	W	L	E	Mounting tap hole				L1	T±1	K	Grease fitting					
					B	J	M	*S				T1	N1	T2	N2	Q1	*Q2
SBI15 FLS	24	47	56.8	3	38	30	M5	M4	38.2	11	21	4.5	5.5	3.8	3.8	M4x0.7	Ø3.5
SBI15 FL	24	47	63.8	3	38	30	M5	M4	45.2	9	21	4.5	5.5	3.8	3.8	M4x0.7	Ø3.5
SBI15 FLL	24	47	79.4	3	38	30	M5	M4	60.8	9	21	4.5	5.5	3.8	3.8	M4x0.7	Ø3.5
SBI20 FLS	30	63	73.8	4.6	53	40	M6	M5	51.8	12	25.4	6	12	5.8	5	M6x0.75	Ø3.5
SBI20 FL	30	63	78.8	4.6	53	40	M6	M5	56.8	12	25.4	6	12	5.8	5	M6x0.75	Ø3.5
SBI20 FLL	30	63	96.4	4.6	53	40	M6	M5	74.4	12	25.4	6	12	5.8	5	M6x0.75	Ø3.5
SBI25 FLS	36	70	83	5.5	57	45	M8	M6	61	13	30.5	6	12	5	5	M6x0.75	Ø3.5
SBI25 FL	36	70	92	5.5	57	45	M8	M6	70	13	30.5	6	12	5	5	M6x0.75	Ø3.5
SBI25 FLL	36	70	108	5.5	57	45	M8	M6	86	13	30.5	6	12	5	5	M6x0.75	Ø3.5
SBI30 FLS	42	90	96.8	7	72	52	M10	M8	68.8	15.5	35	8.5	12	7.8	5	M6x0.75	Ø5.7
SBI30 FL	42	90	107.6	7	72	52	M10	M8	79.6	15.5	35	8.5	12	7.8	5	M6x0.75	Ø5.7
SBI30 FLL	42	90	131.6	7	72	52	M10	M8	103.6	15.5	35	8.5	12	7.8	5	M6x0.75	Ø5.7
SBI35 FLS	48	100	108.2	8	82	62	M10	M8	78.2	15	40	8	12	8	6	M6x0.75	Ø5.7
SBI35 FL	48	100	124.6	7.5	82	62	M10	M8	94.6	15	40.5	8	12	8	6	M6x0.75	Ø5.7
SBI35 FLL	48	100	152.6	7.5	82	62	M10	M8	122.6	15	40.5	8	12	8	6	M6x0.75	Ø5.7
SBI45 FL	60	120	142	9	100	80	M12	M10	108	18	51	10.5	13.5	9.3	6.5	PT1/8	Ø5.7
SBI45 FLL	60	120	174	9	100	80	M12	M10	140	18	51	10.5	13.5	9.3	6.5	PT1/8	Ø5.7
SBI55 FL	70	140	172.4	12	116	95	M14	M12	131	22	58	12	13	12	8	PT1/8	Ø8.7
SBI55 FLL	70	140	211.8	12	116	95	M14	M12	170.4	22	58	12	13	12	8	PT1/8	Ø8.7
SBI65 FL	90	170	219.8	19	142	110	M16	M14	170.4	26	71	14	13	14	10	PT1/8	Ø8.7
SBI65 FLL	90	170	272.2	19	142	110	M16	M14	222.8	26	71	14	13	14	10	PT1/8	Ø8.7

❶ C (Basic dynamic load rating), Co (Basic static load rating)

❷ *S: Bolt size for bottom mounting type of block.

(Unit : mm)

Rail dimension								Basic load rating [kN]		Permissible static moment [kN • m]			Mass	
W1	W2	H1	F	Bolt hole			G	Max length of rail	C	Co	Mro	Mpo	Myo	Block [kg]	Rail [kg/m]
				d	D	h									
15	16	13	60	4.5	7.5	5.5	20	3000	12.3	18.3	0.13	0.08	0.08	0.20	1.3
15	16	13	60	4.5	7.5	5.5	20	3000	14.1	24.1	0.16	0.17	0.17	0.24	1.3
15	16	13	60	4.5	7.5	5.5	20	3000	17.1	31.7	0.21	0.29	0.29	0.30	1.3
20	21.5	16.5	60	6	9.5	8.5	20	4000	20.2	29.1	0.29	0.18	0.18	0.44	2.2
20	21.5	16.5	60	6	9.5	8.5	20	4000	22.2	38.2	0.36	0.33	0.33	0.46	2.2
20	21.5	16.5	60	6	9.5	8.5	20	4000	27.9	50	0.47	0.56	0.56	0.60	2.2
23	23.5	20	60	7	11	9	20	4000	28.9	42.8	0.49	0.32	0.32	0.66	3
23	23.5	20	60	7	11	9	20	4000	31.5	52.1	0.56	0.56	0.56	0.75	3
23	23.5	20	60	7	11	9	20	4000	36.7	64.4	0.69	0.84	0.84	0.80	3
28	31	23	80	9	14	12	20	4000	39.2	57.7	0.80	0.49	0.49	1.08	4.25
28	31	23	80	9	14	12	20	4000	42.8	65.4	0.85	0.77	0.77	1.25	4.25
28	31	23	80	9	14	12	20	4000	51.3	84.7	1.10	1.30	1.30	1.65	4.25
34	33	26	80	9	14	12	20	4000	52.0	73.3	1.24	0.71	0.71	1.53	6.02
34	33	26	80	9	14	12	20	4000	59.5	89.1	1.42	1.28	1.28	1.92	6.02
34	33	26	80	9	14	12	20	4000	71.3	115.3	1.83	2.12	2.12	2.43	6.02
45	37.5	32	105	14	20	17	22.5	4000	79.2	116.3	2.48	1.90	1.90	3.25	9.77
45	37.5	32	105	14	20	17	22.5	4000	94.8	150.5	3.21	3.14	3.14	4.40	9.77
53	43.5	38	120	16	23	20	30	4000	127.3	181.8	4.81	2.97	2.97	5.08	13.72
53	43.5	38	120	16	23	20	30	4000	147.9	224.5	5.95	4.78	4.78	6.58	13.72
63	53.5	53	150	18	26	22	35	4000	188.3	261.7	8.24	5.57	5.57	10.17	23.17
63	53.5	53	150	18	26	22	35	4000	232.5	354.1	11.15	9.86	9.86	13.29	23.17

❸ *Q2: The hole of side grease nipple is not made to prevent a foreign substance from going into inside. When you order the side grease nipple, we build it by ourselves.