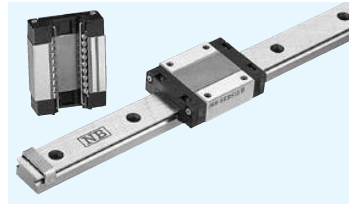


SEBS-B TYPE

— Retained Ball Type —
— 5/7/9 —



part number structure

example **SEBS 7B Y M UU 2 T1 -289 N P /W2**

SEBS: anti-corrosion

size

block

S: short

blank: standard

Y: long

return cap

blank: resin

M: stainless steel

seal (refer to page A-14)

blank: without side-seal

UU: with side-seals

number of blocks attached to one rail

preload symbol (refer to page A-24)

TO: clearance

blank: standard

T1: light

symbol for
number of axes*
blank: single axis
W2: 2 parallel axes
W3: 3 parallel axes

accuracy grade
(refer to page A-24)
blank: high
P: precision

rail mounting hole
blank: counterbore
N: tapped hole

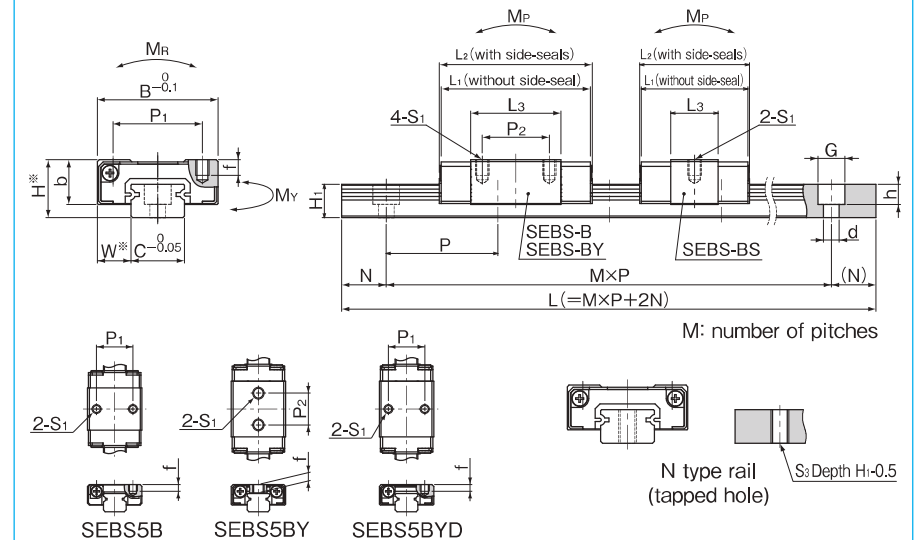
total length of rail

※ The symbol for the number of axes does not mean the number of rails ordered.

part number		assembly dimensions		block dimensions								
resin return cap	stainless return cap	H	W	B	L ₁	L ₂	P ₁	P ₂	S ₁	f	L ₃	b
SEBS 5B	SEBS 5BM	6	3.5	12	16.5	16.9	8	—	M2	1.5	9.3	4.5
SEBS 5BY	SEBS 5BYM				19.5	19.9	—	7	M2.6	1.8	12.3	
SEBS 5BYD	SEBS 5BYDM						8	—	M2	1.5		
SEBS 7BS	SEBS 7BSM	8	5	17	18.2	19	12	8	M2	2.5	8.8	6.5
SEBS 7B	SEBS 7BM				22.2	23					12.8	
SEBS 7BY	SEBS 7BYM				31.7	32.5					22.3	
SEBS 9BS	SEBS 9BSM	10	5.5	20	20.5	21.3	15	10	M3	3	10.1	7.8
SEBS 9B	SEBS 9BM				30	30.8					19.6	
SEBS 9BY	SEBS 9BYM				39.5	40.3					29.1	

part number	standard rail length L mm														
SEBS 5B	40	55	70	85	100	115	130	145	160						
SEBS 7B	40	55	70	85	100	115	130	145	160	175	190	205	220	235	265
SEBS 9B	55	75	95	115	135	155	175	195	215	235	255	275	295	315	355

Rails exceeding the maximum specified length may be fabricated if joints are used. Please contact NB for assistance.



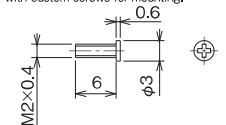
※Please refer to page A-24 for accuracy.

guide rail dimensions					basic load rating		allowable static moment			mass			block size	
H ₁	C	d×G×h	S ₃	N	P	dynamic C	static C ₀	M _{P2}	M _{Y2}	M _R	resin return cap	stainless return cap		guide rail g/100mm
mm	mm	mm		mm	mm	kN	kN	N·m	N·m	N·m				
4	5	2.4×3.5×0.8	M2.6	5	15	0.52	0.75	1.13 7.86	0.95 6.59	1.96	3	4	13	5B
						0.64	1.00	1.94 12.0	1.63 10.0	2.62	4	5		5BY 5BYD
4.7	7	2.4×4.2×2.3	M3			0.92	1.05	1.57 13.6	1.32 11.4	3.86	7	10	21	7BS
						1.28	1.69	3.66 25.4	3.07 21.3	6.18	9	12		7B
						1.90	2.95	10.4 59.1	8.74 49.6	10.8	15	18		7BY
5.5	9	3.5×6×3.5	M4			1.05	1.26	2.17 18.2	1.82 15.2	5.90	11	15	31	9BS
				1.70	2.53	7.78 48.2	6.53 40.4	11.8	18	22	9B			
				2.26	3.80	16.8 91.7	14.1 77.0	17.7	27	31	9BY			

M_{P2} and M_{Y2} are allowable static moments when two blocks are used in close contact. 1kN≒102kgf 1N·m≒0.102kgf·m

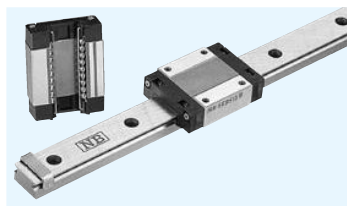
			maximum length mm	
			counterbore	tapped hole (N type)
			600	300
280	295	310	1,300	700
375	395	415	1,480	1,000

SEBS5 rail mounting screw
SEBS5 counterbore type rails are provided
with custom screws for mounting.



SEBS-B TYPE

— Retained Ball Type —
—12/15/20—



part number structure

example **SEBS15BYM UU2 T1-589N P/W2**

SEBS: anti-corrosion

size

block

S: short

blank: standard

Y: long

return cap

blank: resin

M: stainless steel

seal (refer to page A-14)

blank: without side-seal

UU: with side-seals

number of blocks attached to one rail

preload symbol (refer to page A-24)

TO: clearance

blank: standard

T1: light

symbol for
number of axes*
blank: single axis
W2: 2 parallel axes
W3: 3 parallel axes

accuracy grade
(refer to page A-24)
blank: high
P: precision

rail mounting hole
blank: counterbore
N: tapped hole

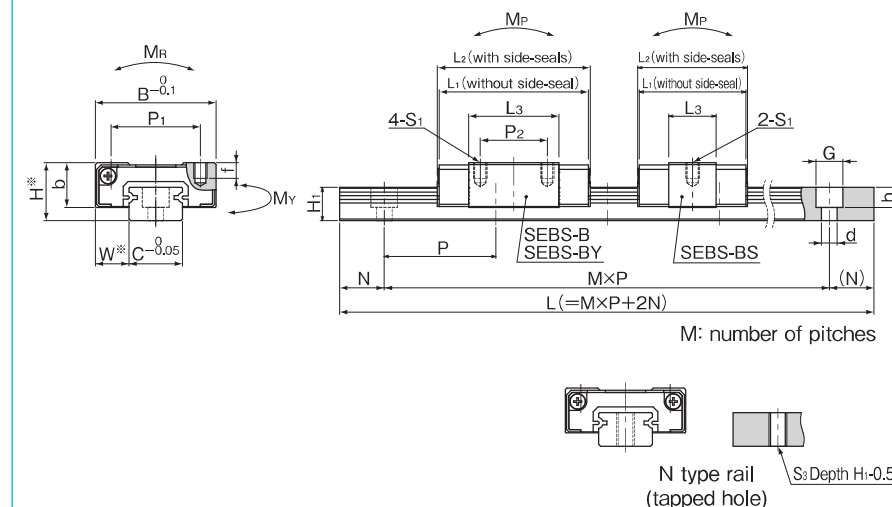
total length of rail

※ The symbol for the number of axes does not mean the number of rails ordered.

part number		assembly dimensions		block dimensions								
resin return cap	stainless return cap	H	W	B	L ₁	L ₂	P ₁	P ₂	S ₁	f	L ₃	b
SEBS12BS	SEBS12BSM	13	7.5	27	24.2	24.6	20	15	M3	3.5	10.6	10
SEBS12B	SEBS12BM				33.8	34.2					20.2	
SEBS12BY	SEBS12BYM				45.7	46.1					32.1	
SEBS15BS	SEBS15BSM	16	8.5	32	30	30.4	25	20	M3	4	15	12
SEBS15B	SEBS15BM				42.6	43					27.6	
SEBS15BY	SEBS15BYM				58.6	59					43.6	
SEBS20B	SEBS20BM	25	13	46	65.9	65.9	38	38	M4	6	44.7	17.5
SEBS20BY	SEBS20BYM				85.7	85.7					64.5	

part number	standard rail length L mm													
SEBS12B	70	95	120	145	170	195	220	245	270	295	320	345	370	395
SEBS15B	70	110	150	190	230	270	310	350	390	430	470	510	550	590
SEBS20B	220	280	340	400	460	520	580	640	700	760	820	880	940	1,000

Rails exceeding the maximum specified length may be fabricated if joints are used. Please contact NB for assistance.



※Please refer to page A-24 for accuracy.

guide rail dimensions						basic load rating		allowable static moment			mass		guide rail g/100mm	block size
H ₁	C	d×G×h	S ₃	N	P	dynamic C	static Co	M _P M _{P2}	M _Y M _{Y2}	M _R	block g resin return cap	block g stainless return cap		
mm	mm	mm		mm	mm	kN	kN	N · m	N · m	N · m				
7.5	12	3,5×6×4,5	M4	10	25	1.90	1.91	3.63 32.4	3.04 27.2	11.9	21	30	59	12BS
						3.09	3.82	12.4 81.3	10.4 68.2	23.9	35	44		12B
						4.34	6.21	30.7 170	25.7 143	38.8	53	62		12BY
9.5	15		M5	15	40	3.49	3.38	8.56 67.5	7.18 56.6	26.2	40	53	97	15BS
						5.65	6.76	29.2 175	24.5 147	52.4	64	77		15B
						7.93	10.9	72.4 379	60.7 318	85.1	98	110		15BY
15	20	6×9.5×8.5	M6	20	60	11.4	14.5	103 591	87.0 496	149	228	266	205	20B
						14.8	21.2	210 1.080	176 914	217	323	360		20BY

M_{P2} and M_{Y2} are allowable static moments when two blocks are used in close contact. 1kN≒102kgf 1N·m≒0.102kgf·m

		maximum length mm	
		counterbore	tapped hole (N type)
470	495	1,480	1,000