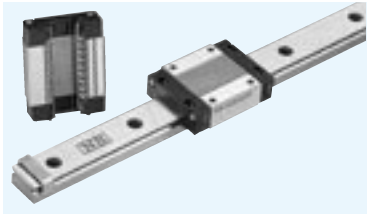
SEBS-BS/B/BY TYPE
SEBS-BSM/BM/BYM TYPE
– Retained Ball Type –



part number structure

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

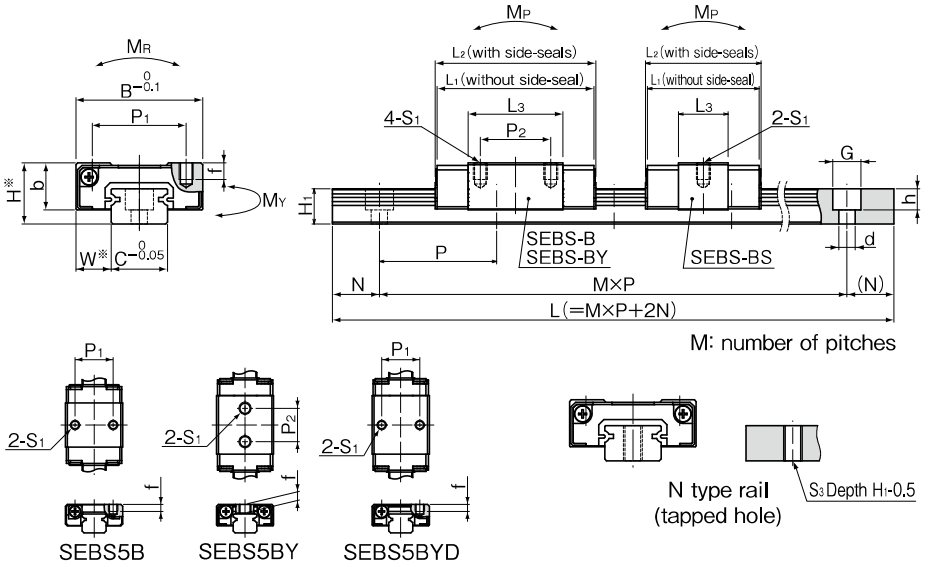
- SEBS : anti-corrosion
- size
- block
  S: short
  blank: standard
  Y: long
- return cap
  blank: resin
  M: stainless steel
- seal
  blank: without side-seal
  UU: with side-seals
- number of blocks attached to one rail
- preload symbol
  TO: clearance
  blank: standard
  T1: light
- total length of rail
- rail mounting hole
  blank: counterbore
  N: tapped hole
- accuracy grade
  blank: high
  P: precision
- symbol for number of axes※
  blank: single axis
  W2: 2 parallel axes
  W3: 3 parallel axes

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

part number		assembly dimensions		block dimensions									
		H	W	B	L_1	L_2	P_1	P_2	S_1	f	L_3	b	
resin return cap	stainless return cap	mm	mm	mm	mm	mm	mm	mm		mm	mm	mm	
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	—	M2	2.5	8.8	6.5	
SEBS 7B	SEBS 7BM				22.2	23		8			12.8		
SEBS 7BY	SEBS 7BYM				31.7	32.5		13			22.3		
SEBS 9BS	SEBS 9BSM	10	5.5	20	20.5	21.3	15	—	M3	3	10.1	7.8	
SEBS 9B	SEBS 9BM				30	30.8		10			19.6		
SEBS 9BY	SEBS 9BYM				39.5	40.3		16			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	250	265
SEBS 9B	55	75	95	115	135	155	175	195	215	235	255	275	295	315	335	355

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



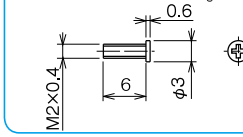
※Please refer to page A-22 for accuracy.

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 Co	M_P / M_{P2}	M_Y / M_{Y2}	M_R	block g resin return cap	block g 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	7.5	20	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

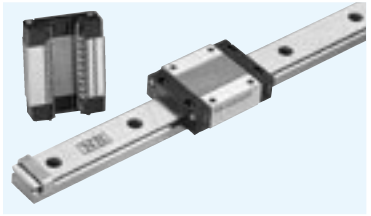
M_{P2} and M_{Y2} are allowable static moments when two blocks are used in close contact. 1kN≒102kgf 1N・m≒0.102kgf・m

											maximum length mm	
											counterbore	tapped hole (N type)
											600	300
280	295	310									1,300	700
375	395	415	435	455	475						1,480	1,000

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



SEBS-BS/B/BY TYPE
SEBS-BSM/BM/BYM TYPE
– Retained Ball Type –

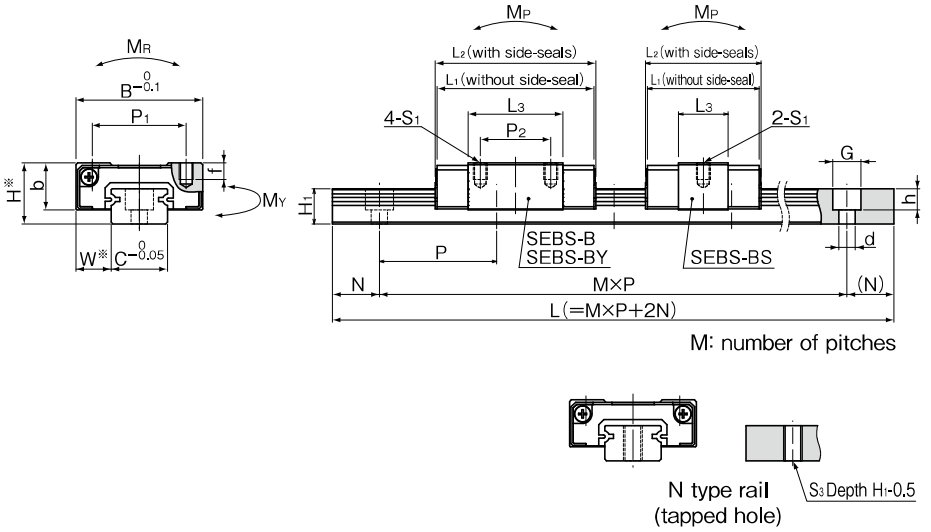


part number structure

example **SEBS 15B Y M UU 2 T1 -589 N P /W2**

- **SEBS**: anti-corrosion
- size
- block
  S: short
  blank: standard
  Y: long
- return cap
  blank: resin
  M: stainless steel
- seal
  blank: without side-seal
  UU: with side-seals
- number of blocks attached to one rail
- preload symbol
  TO: clearance
  blank: standard
  T1: light
- total length of rail
- rail mounting hole
  blank: counterbore
  N: tapped hole
- accuracy grade
  blank: high
  P: precision
- symbol for number of axes※
  blank: single axis
  W2: 2 parallel axes
  W3: 3 parallel axes

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



M: number of pitches

N type rail
(tapped hole)

※Please refer to page A-22 for accuracy.

part number		assembly dimensions		block dimensions									
		H	W	B	L1	L2	P1	P2	S1	f	L3	b	
resin return cap	stainless return cap	mm	mm	mm	mm	mm	mm	mm		mm	mm	mm	
SEBS12BS	SEBS12BSM	13	7.5	27	24.2	24.6	20	—	M3	3.5	10.6	10	
SEBS12B	SEBS12BM				33.8	34.2		15			20.2		
SEBS12BY	SEBS12BYM				45.7	46.1		20			32.1		
SEBS15BS	SEBS15BSM	16	8.5	32	30	30.4	25	—		4	15	12	
SEBS15B	SEBS15BM				42.6	43		20			27.6		
SEBS15BY	SEBS15BYM				58.6	59		25			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	420	445
SEBS15B	70	110	150	190	230	270	310	350	390	430	470	510	550	590	630	670
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.

guide rail dimensions						basic load rating		allowable static moment			mass			block size
H1	C	d×G×h	S3	N	P	dynamic C	static Co	MP MP2	MY MY2	MR	block g resin return cap	block g stainless return cap	guide rail g/100mm	
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

MP2 and MY2 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