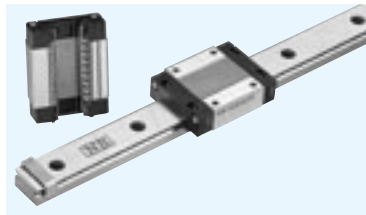


SEBS-BS/B/BY TYPE SEBS-BSM/BM/BYM TYPE

— 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
- symbol for number of axes*
 - blank: single axis
 - W2: 2 parallel axes
 - W3: 3 parallel axes
- accuracy grade
- 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	stainless	H	W	B	L1	L2	P1	P2	S1	f	L3	b
return cap	return cap	mm	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	—	—	—	—	8.8	6.5
SEBS 7B	SEBS 7BM				22.2	23	12	8	M2	2.5	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	—	—	—	—	10.1	7.8
SEBS 9B	SEBS 9BM				30	30.8	15	10	M3	3	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.

Technical diagrams showing dimensions and force vectors for SEBS slide guide components. The diagrams include:

- Top view showing dimensions M_R , $B_{-0.1}^0$, P_1 , W^* , $C_{-0.05}$, M_Y , L_2 (with side-seals), L_1 (without side-seal), L_3 , P_2 , $4-S_1$, $2-S_1$, G , d , N , P , $M \times P$, $L (=M \times P + 2N)$.
- Side view showing dimensions P_1 , $2-S_1$, P_3 , t , t .
- Bottom view showing dimensions $2-S_1$, t , t .
- Detail view of N type rail (tapped hole) showing S_3 Depth $H_1-0.5$.

M: number of pitches

SEBS5B SEBS5BY SEBS5BYD

*Please refer to page A-22 for accuracy.

guide rail dimensions						basic load rating		allowable static moment			mass		guide rail	block size	
H1	C	d x G x h		S3	N	P	dynamic C	static Co	MP	MY	MR	block g resin return cap	block g stainless return cap	g/100mm	block size
mm	mm	mm		mm	mm	mm	kN	kN	N · m	N · m	N · m				
4	5	2.4 x 3.5 x 0.8		M2.6	5	15	0.52	0.75	1.13	0.95	1.96	3	4	13	5B
							0.64	1.00	1.94	1.63	2.62	4	5		5BY
4.7	7	2.4 x 4.2 x 2.3		M3	5	15	0.92	1.05	1.57	1.32	3.86	7	10	21	7BS
							1.28	1.69	3.66	3.07	6.18	9	12		7B
							1.90	2.95	10.4	8.74	10.8	15	18		7BY
5.5	9	3.5 x 6 x 3.5		M4	7.5	20	1.05	1.26	2.17	1.82	5.90	11	15	31	9BS
							1.70	2.53	7.78	6.53	11.8	18	22		9B
							2.26	3.80	16.8	14.1	17.7	27	31		9BY

MP2 and MY2 are allowable static moments when two blocks are used in close contact. 1kN ≒ 102kgf 1N · m ≒ 0.102kgf · m

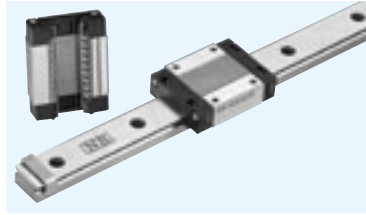
				maximum length mm	
				counterbore	tapped hole (N type)
				600	300
280	295	310		1,000	700
375	395	415	435	455	475
				1,300	1,000

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

Diagram showing dimensions for SEBS5 rail mounting screw: $M2 \times 0.4$, 0.6 , 6 , $\phi 3$.

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**

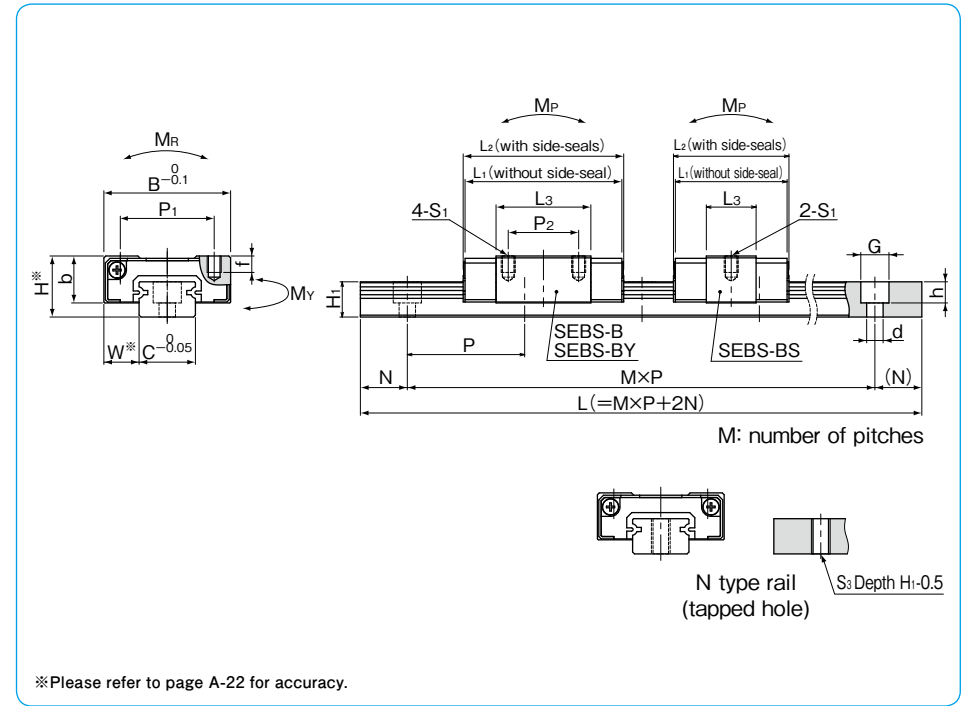
SEBS: anti-corrosion	size	block	return cap	seal	number of blocks attached to one rail	preload symbol	total length of rail	symbol for number of axes*	accuracy grade	rail mounting hole
S: short	blank: standard	blank: resin	blank: without side-seal	blank: without side-seal	blank: high	TO: clearance	blank: counterbore	blank: single axis	blank: high	blank: counterbore
Y: long		M: stainless steel	UU: with side-seals	UU: with side-seals	P: precision	blank: standard	blank: tapped hole	W2: 2 parallel axes		N: tapped hole
						T1: light		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								
resin	stainless	H	W	B	L1	L2	P1	P2	S1	f	L3	b
return cap	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	—	M3	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.



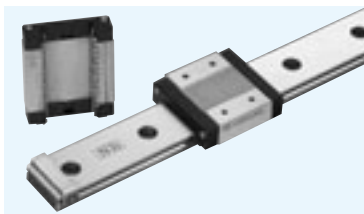
guide rail dimensions						basic load rating		allowable static moment			mass		guide rail	block size		
H1	C	d×G×h		S3	N	P	dynamic C	static Co	Mp	My	Mr	block g resin return cap			block g stainless return cap	
mm	mm	mm			mm	mm	kN	kN	N·m	N·m	N·m					
7.5	12	3.5×6×4.5		M4	10	25	1.90	1.91	3.63	3.04	11.9	21	30	59	12BS	
							3.09	3.82	12.4	10.4	23.9	35	44			12B
							4.34	6.21	81.3	68.2	38.8	53	62			
9.5	15	3.5×6×4.5		M5	15	40	3.49	3.38	8.56	7.18	26.2	40	53	97	15BS	
							5.65	6.76	67.5	56.6	52.4	64	77			15BY
							7.93	10.9	72.4	60.7	85.1	98	110			
15	20	6×9.5×8.5		M6	20	60	11.4	14.5	103	87.0	149	228	266	205	20B	
							14.8	21.2	591	496	217	323	360			20BY
									210	176	217	323	360			
									1,080	914						

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	1,300	1,000

SEBS-WBS/WB/WBY TYPE

– Retained Ball · Wide Type –



part number structure

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

SEBS: anti-corrosion

size

block
S: short
blank: standard
Y: long

seal
blank: without side-seal
UU: with side-seals

number of blocks attached to one rail

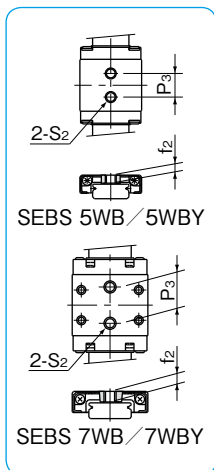
preload symbol
TO: clearance
blank: standard
T1: light

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

accuracy grade
blank: high
P: precision

rail mounting hole
blank: counterbore
N: tapped hole

total length of rail

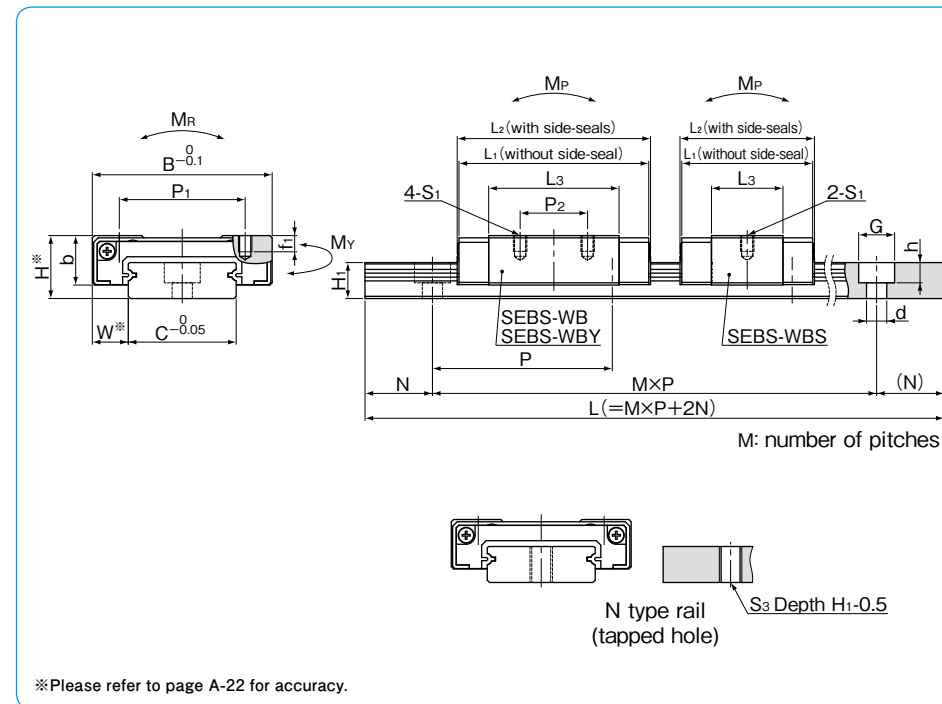


* The symbol for the number of axes does not mean the number of rails ordered.

part number	assembly dimensions			block dimensions											
	H	W	B	L1	L2	P1	P2	S1	f1	L3	P3	S2	f2	b	
	mm	mm	mm	mm	mm	mm	mm		mm	mm	mm	mm	mm	mm	
SEBS 5WB	6.5	3.5	17	21.5	21.9	—	—	—	—	14.3	6.5	M3	2.3	5	
SEBS 5WBY				27.5	27.9					20.3	11				
SEBS 7WBS	9	5.5	25	21.1	21.9	19	10	M3	2.8	10.7	—	M4	3.5	7	
SEBS 7WB				30.6	31.4					20.2	12				
SEBS 7WBY				39.3	40.1					28.9	18				
SEBS 9WBS	12	6	30	24.2	25	21	—	M3	3	13	—	—	—	9	
SEBS 9WB				37.5	38.3					26.3					—
SEBS 9WBY				49.5	50.3					23					24

part number	standard rail length														
	L mm														
SEBS 5WB	50	70	90	110	130	150	170	190							
SEBS 7WB	50	80	110	140	170	200	230	260	290	320	350	380	410	440	470
SEBS 9WB	50	80	110	140	170	200	230	260	290	320	350	380	410	440	470

Rails exceeding the maximum specified length may be fabricated if joints are used. Please contact NB for assistance.
 The minimum standard rail can not be used for SEBS 9 WBY.



*Please refer to page A-22 for accuracy.

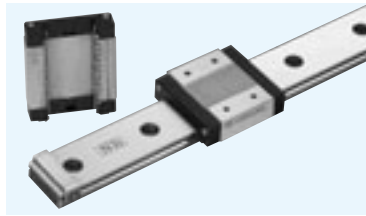
guide rail dimensions							basic load rating		allowable static moment			mass		block size
H1	C	B1	d × G × h	S3	N	P	dynamic C	static Co	Mp	My	MR	block g	guide rail g/100mm	
mm	mm	mm	mm		mm	mm	kN	kN	N · m	N · m	N · m			
4	10	—	3 × 5.5 × 3	M3	5	20	0.71	1.17	2.60	2.18	5.99	7	26	
							0.91	1.68	5.16	4.33	8.56	10		
5.2	14	—	3.5 × 6 × 3.2	M4	10	30	1.05	1.26	2.17	1.82	9.07	12	51	
							1.71	2.53	7.78	6.53	18.1	20		
							2.26	3.80	16.8	14.1	27.2	28		
7.5	18	—	3.5 × 6 × 4.5	M4	10	30	1.73	2.01	4.35	3.65	18.6	21	96	
							2.96	4.36	18.1	15.2	40.4	37		
							3.87	6.38	37.4	31.4	59.0	52		

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)
	600	500
	1,000	700
500 530	1,300	1,000

SEBS-WBS/WB/WBY TYPE

– Retained Ball · Wide Type –



part number structure

example **SEBS15WB Y UU 2 T1 - 539 N P / W2**

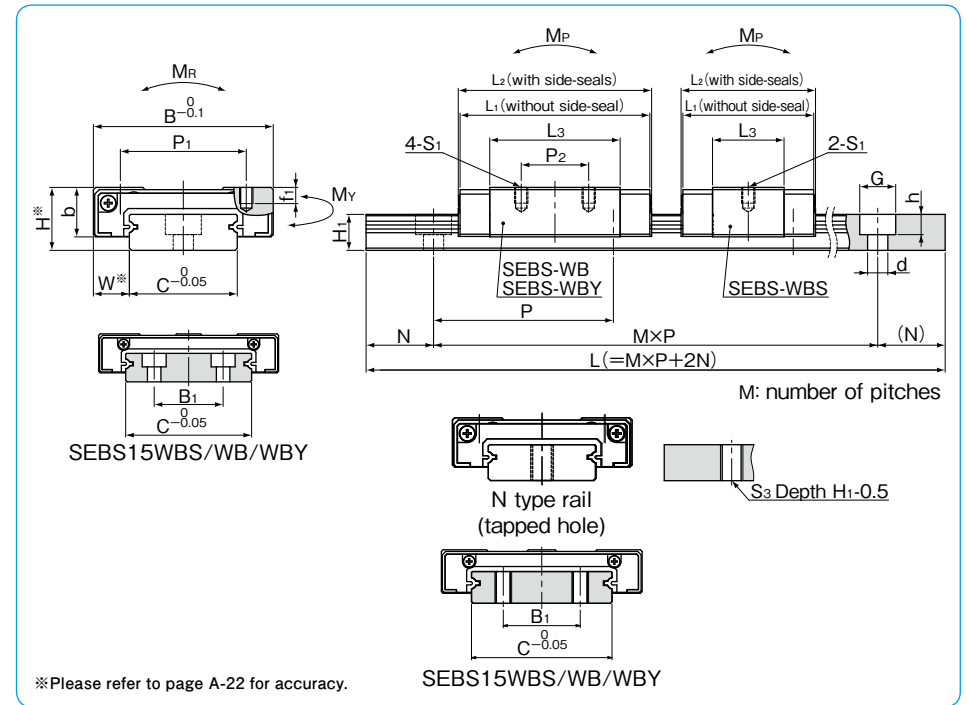
- SEBS: anti-corrosion
- size
- block
 - S: short
 - blank: standard
 - Y: long
- seal
 - blank: without side-seal
 - UU: with side-seals
- number of blocks attached to one rail
- preload symbol
 - TO: clearance
 - blank: standard
 - T1: light
- symbol for number of axes*
 - blank: single axis
 - W2: 2 parallel axes
 - W3: 3 parallel axes
- accuracy grade
 - 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											
	H	W	B	L ₁	L ₂	P ₁	P ₂	S ₁	f ₁	L ₃	P ₃	S ₂	f ₂	b
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SEBS12WBS				29.7	30.1		—			15.9				
SEBS12WB	14	8	40	42.8	43.2	28	15	M3	3.5	29	—	—	—	11
SEBS12WB Y				58.3	58.7		28			44.5				
SEBS15WBS				39.4	39.8		—			24				
SEBS15WB	16	9	60	54.2	54.6	45	20	M4	4.5	38.8	—	—	—	13
SEBS15WB Y				73.3	73.7		35			57.9				

part number	standard rail length														
	L mm														
SEBS12WB	70	110	150	190	230	270	310	350	390	430	470	510	550	590	630
SEBS15WB	70	110	150	190	230	270	310	350	390	430	470	510	550	590	630

Rails exceeding the maximum specified length may be fabricated if joints are used. Please contact NB for assistance. The minimum standard rail can not be used for SEBS 15 WB Y.

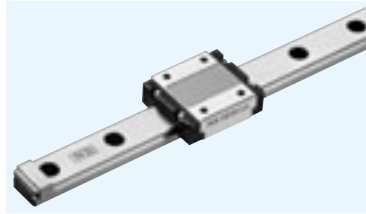


guide rail dimensions							basic load rating			allowable static moment			mass		block size		
H ₁	C	B ₁	d×G×h	S ₃	N	P	dynamic C	static Co	M _P	M _Y	M _R	block	guide rail				
mm	mm	mm	mm		mm	mm	kN	kN	N·m	N·m	N·m	g	g/100mm				
8	24	—	4.5×8×4.5	M5	15	40	2.53	2.86	7.38	6.19	35.1	43	137				
							4.10	5.73	26.4	22.1	70.2	71					
							5.45	8.60	57.1	47.9	105	106					
9.5	42	23					4.5×8×4.5	M5	15	40	5.15	5.91	22.9	19.2	125	98	286
											7.49	10.1	62.2	52.2	215	148	
											9.95	15.2	134	113	323	216	

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)
670	710		
670	710	1,300	1,000

SEB-A/AY TYPE



part number structure

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

specification
SEB: standard
SEBS: anti-corrosion

size

block
blank: standard
Y: long

seal
blank: without side-seal
UU: with side-seals

number of blocks attached to one rail

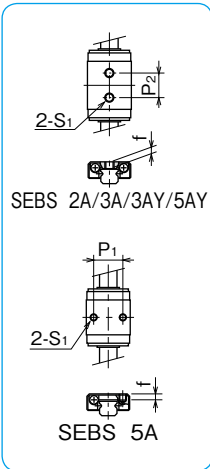
preload symbol
TO: clearance
blank: standard
T1: light

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

accuracy grade
blank: high
P: precision

rail mounting hole
blank: counterbore
N: tapped hole

total length of rail

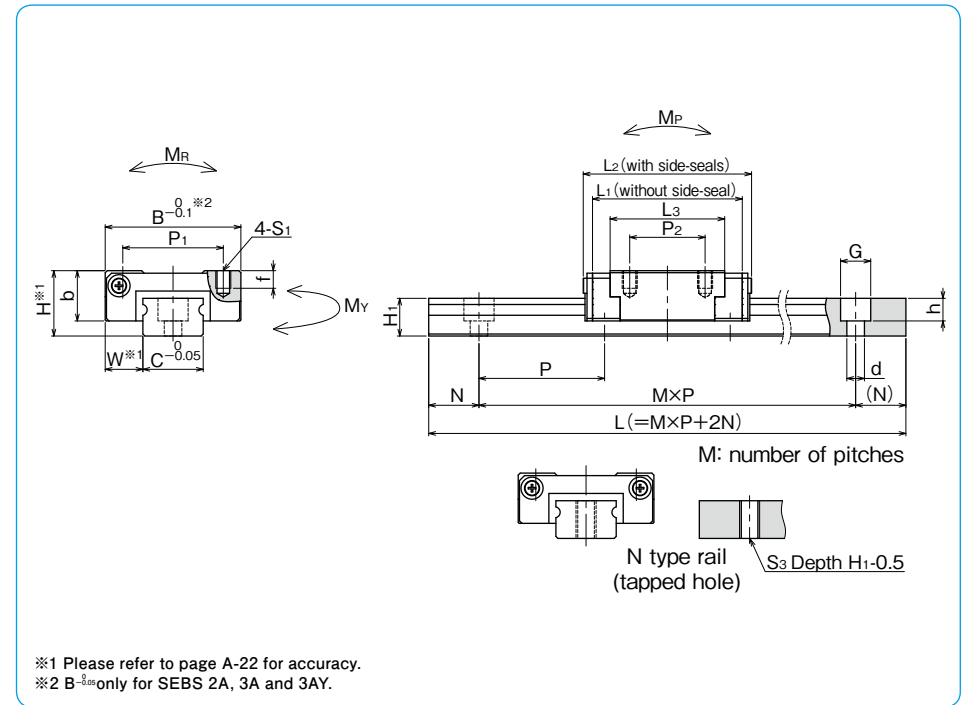


* The symbol for the number of axes does not mean the number of rails ordered.

part number		assembly dimensions		block dimensions								
standard	anti-corrosion	H	W	B	L1	L2	P1	P2	S1	f	L3	b
		mm	mm	mm	mm	mm	mm	mm		mm	mm	mm
—	SEBS 2A	3.2	2	6	12.9	14.3	—	4	M1.4	1.05	9.3	2.5
—	SEBS 3A	4	2.5	8	10.5	11.8	—	3.5	M1.6	1.3	6.5	3
	SEBS 3AY				14.5	15.8	—	5.5	M2		10.5	
—	SEBS 5A	6	3.5	12	15.6	17	8	—	M2	1.5	9.8	4.5
	SEBS 5AY				19.2	20.6	—	7	M2.6	1.8	13.4	
—	SEBS 7A	8	5	17	21.9	24	12	8	M2	2.5	15.1	6.5
	SEBS 7AY				31	33		13			24.6	

part number		standard rail length L														
standard	anti-corrosion	mm														
—	SEBS 2A	32	40	56	80	104										
—	SEBS 3A	30	40	60	80	100										
—	SEBS 5A	40	55	70	85	100	115	130	145	160						
—	SEBS 7A	40	55	70	85	100	115	130	145	160	175	190	205	220	235	250

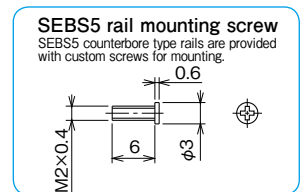
Joint rails are used when the required length exceeds the maximum standard length listed in the dimension tables. Please contact NB for details. Only N type rail is available for SEBS 2A and SEBS 3A.



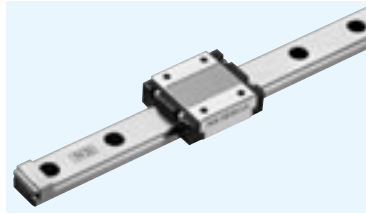
guide rail dimensions						basic load rating		allowable static moment			mass		block size
H ₁	C	d × G × h	S ₃	N	P	dynamic C	static C ₀	M _P	M _Y	M _R	block	guide rail	
mm	mm	mm		mm	mm	kN	kN	N · m	N · m	N · m	g	g/100mm	
2	2	—	M1	4	8	0.21	0.38	0.53 2.77	0.64 3.30	0.41	0.8	2.8	2A
2.6	3	—	M1.6	10	10	0.25	0.36	0.39 2.42	0.46 2.88	0.57	1	5	3A
						0.35	0.58	0.97 5.18	1.16 6.18				0.93
4	5	2.4 × 3.5 × 1	M2.6	5	15	0.59	0.81	1.32 8.05	1.58 9.60	2.11	4	13	5A
						0.74	1.11	2.39 13.2	2.86 15.7				2.90
4.7	7	2.4 × 4.2 × 2.3	M3	15	15	1.08	1.41	3.07 18.9	3.66 22.6	5.18	11	21	7A
						1.59	2.48	8.74 45.1	10.4 53.8				9.07

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 counterbore		length mm	
	standard	anti-corrosion	standard	anti-corrosion
	—	—	—	150
	—	—	—	150
	—	600	—	300
265 280 295 310	—	1,000	—	700



SEB-A/AY TYPE



part number structure

example **SEBS 15A Y UU 2 T1 -539 N P /W2**

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

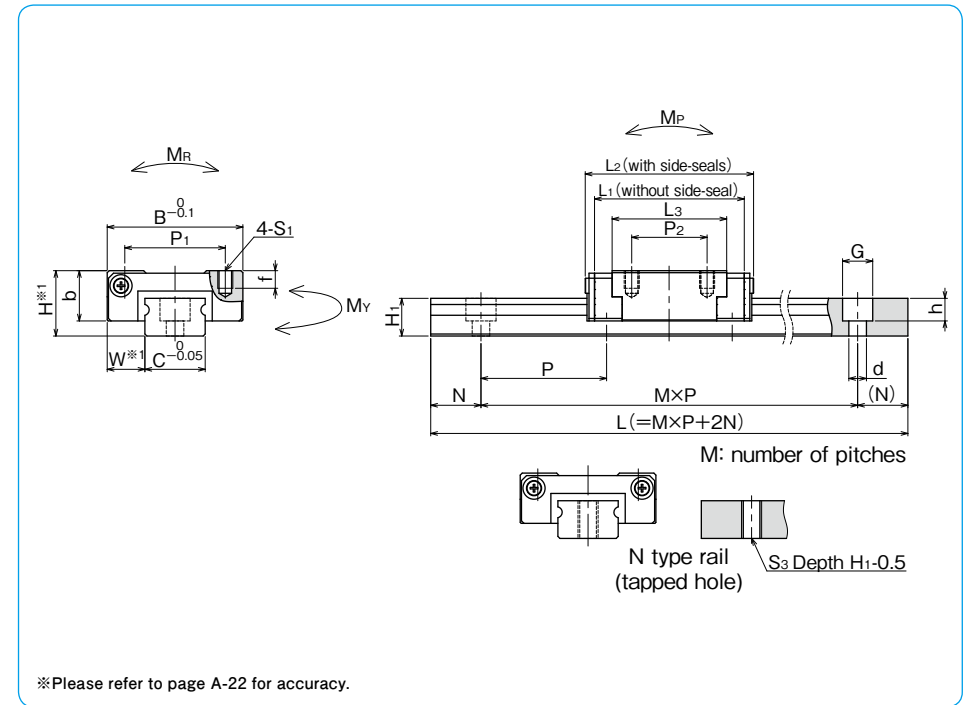
* The symbol for the number of axes does not mean the number of rails ordered.

part number		assembly dimensions		block dimensions									
standard	anti-corrosion	H	W	B	L ₁	L ₂	P ₁	P ₂	S ₁	f	L ₃	b	
		mm	mm	mm	mm	mm	mm	mm		mm	mm	mm	
SEB 9A	SEBS 9A	10	5.5	20	28.1	29.5	15	10	M3	3	20.4	7.8	
SEB 9AY	SEBS 9AY				38.1	40		16			30.4		
SEB12A	SEBS12A	13	7.5	27	30	33.5	20	15		3.5	4	22.8	10
SEB12AY	SEBS12AY				42	45.5		20				34.7	
SEB15A	SEBS15A	16	8.5	32	38.5	42	25	20		4	6	29.5	12
SEB15AY	SEBS15AY				54.5	58		25				45.4	
SEB20A	SEBS20A	25	13	46	55.7	61	38	38	M4	6	45.7	17.8	
SEB20AY	SEBS20AY				79.5	85		38			69.5		

All the SEB blocks are made of stainless steel (SEBS marking).

part number		standard rail length L														
standard	anti-corrosion	mm														
SEB 9A	SEBS 9A	55	75	95	115	135	155	175	195	215	235	255	275	295	315	335
SEB12A	SEBS12A	70	95	120	145	170	195	220	245	270	295	320	345	370	395	420
SEB15A	SEBS15A	70	110	150	190	230	270	310	350	390	430	470	510	550	590	630
SEB20A	SEBS20A	220	280	340	400	460	520	580	640	700	760	820	880	940	1,000	

Joint rails are used when the required length exceeds the maximum standard length listed in the dimension tables.



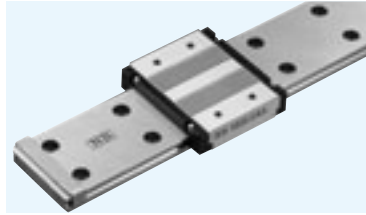
guide rail dimensions				basic load rating		allowable static moment			mass		block size			
H ₁	C	d × G × h	S ₃	N	P	dynamic C	static C ₀	M _P	M _Y	M _R	block	guide rail	block size	
mm	mm	mm		mm	mm	kN	kN	N · m	N · m	N · m	g	g/100mm		
5.5	9	3.5 × 6 × 3.5	M4	7.5	20	1.92	2.53	7.64	9.11	11.5	19	30	9A	
						2.62	3.94	43.1	51.3	17.9	28	9AY		
7.5	12	3.5 × 6 × 4.5		10	25	2.60	3.20	10.4	12.4	20.0	37	60	12A	
						3.65	5.21	57.0	68.0	32.6	55	12AY		
9.5	15	3.5 × 6 × 4.5		M5	15	40	4.74	5.67	24.5	29.2	43.9	68	100	15A
							6.65	9.22	131	157	71.4	101	15AY	
15	20	6 × 9.5 × 8.5	M6	20	60	8.99	11.1	72.7	86.7	114	226	209	20A	
						12.4	17.8	367	437	182	338	20AY		

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)
		standard	anti-corrosion
355	375	500	500
395	415	1,300	1,000
435	455		
475	495	1,900	1,900

SEB-WA/WAY TYPE

— Wide block —



part number structure

example **SEBS9WA Y UU 2 T1 - 289 N P / W2**

specification
SEB: standard
SEBS: anti-corrosion

size

block
blank: standard
Y: long

seal
blank: without side-seal
UU: with side-seals

number of blocks attached to one rail

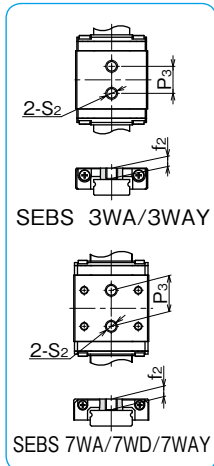
preload symbol
TO: clearance
blank: standard
T1: light

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

accuracy grade
blank: high
P: precision

rail mounting hole
blank: counterbore
N: tapped hole

total length of rail



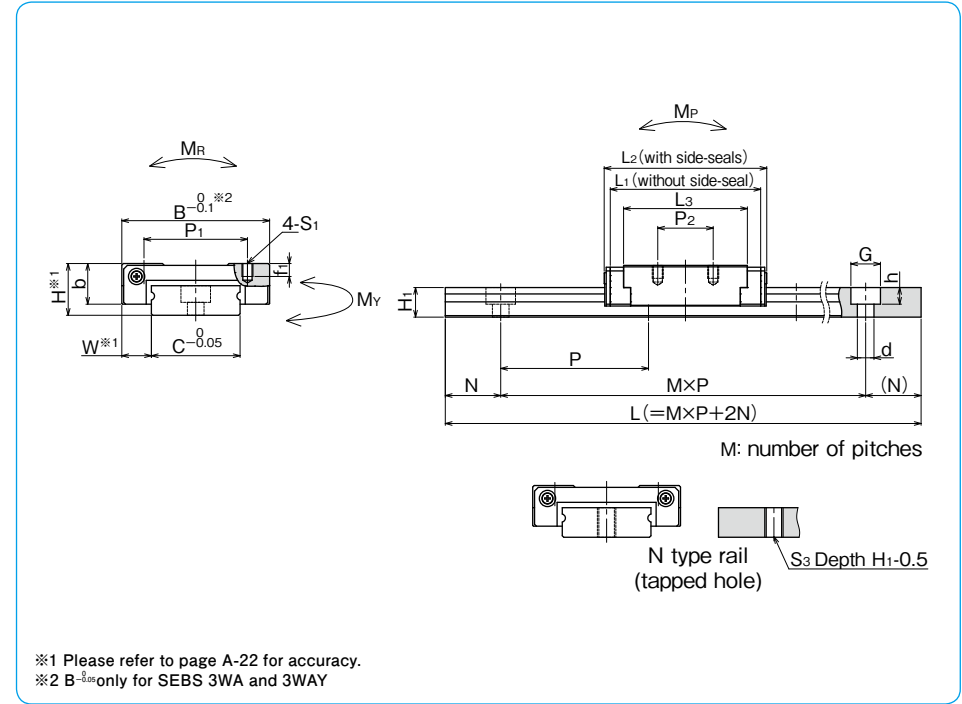
** The symbol for the number of axes does not mean the number of rails ordered.

part number		assembly dimensions		block dimensions											
standard	anti-corrosion	H	W	B	L1	L2	P1	P2	S1	f1	L3	P3	S2	f2	b
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
—	SEBS 3WA	4.5	3	12	14.2	15	—	—	—	—	9.7	4.5	M2	1.7	3.5
	SEBS 3WAY				19	19.8									
—	SEBS 7WA	9	5.5	25	30.1	32	18	12	M2.6	2.5	22.1	12	M4	3.5	7
	SEBS 7WD				19	10	M3	2.8							
	SEBS 7WAY				39.6	41	19	31.6	18						
SEB 9WA	SEBS 9WA	12	6	30	35.9	38	21	12	M2.6	3	28.4	—	—	—	9
SEB 9WD	SEBS 9WD				2.8										
SEB 9WAY	SEBS 9WAY				48	50	23	24	M3	3	40.4				

All the SEB blocks are made of stainless steel (SEBS marking).

part number		standard rail length L														
standard	anti-corrosion	mm														
—	SEBS 3WA	40	55	70	85	100										
—	SEBS 7WA	50	80	110	140	170	200	230	260	290	320	350	380	410	440	470
SEB 9WA	SEBS 9WA	50	80	110	140	170	200	230	260	290	320	350	380	410	440	470

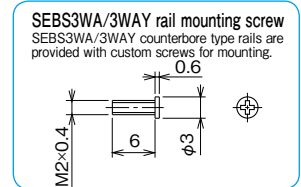
Joint rails are used when the required length exceeds the maximum standard length listed in the dimension tables. Please contact NB for details. SEB9WAY block lengths exceed the minimum standard rail length.



guide rail dimensions							basic load rating		allowable static moment			mass		block size
H1	C	B1	d × G × h	S3	N	P	dynamic C	static Co	Mp	My	Mr	block g	guide rail g/100mm	
mm	mm	mm	mm		mm	mm	kN	kN	N · m	N · m	N · m			
2.6	6	—	2.4 × 4 × 1.5	M3	5	15	0.33	0.54	0.83	0.99	1.67	3	10	
							0.44	0.81	1.81	2.15	2.51			4
5.2	14	—	3.5 × 6 × 3.2	M4	10	30	1.43	2.12	6.53	7.78	15.2	21	51	
							1.90	3.19	14.1	16.8	22.8			30
							2.49	3.66	15.2	18.1	33.9	38	96	
7.5	18	—	3.5 × 6 × 4.5	M4	10	30	3.25	5.35	31.4	37.4	49.5	55	96	
							2.49	3.66	15.2	18.1	33.9			38
							3.25	5.35	31.4	37.4	49.5	55		

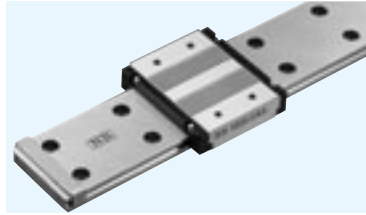
Mp2 and My2 are allowable static moments when two blocks are used in close contact. 1kN = 102kgf 1N · m = 0.102kgf · m

		maximum length mm			
		counterbore		tapped hole (N type)	
		standard	anti-corrosion	standard	anti-corrosion
—	—	—	500	—	150
—	—	—	1,000	—	700
500	530	1,900	1,300	1,900	1,000



SEB-WA/WAY TYPE

— Wide block —



part number structure

example **SEBS 15WA Y UU 2 T1 -539 N P /W2**

specification SEB: standard SEBS: anti-corrosion	size	block blank: standard Y: long	seal blank: without side-seal UU: with side-seals	number of blocks attached to one rail	preload symbol TO: clearance blank: standard T1: light	symbol for number of axes** blank: single axis W2: 2 parallel axes W3: 3 parallel axes	accuracy grade blank: high P: precision	rail mounting hole blank: counterbore N: tapped hole	total length of rail
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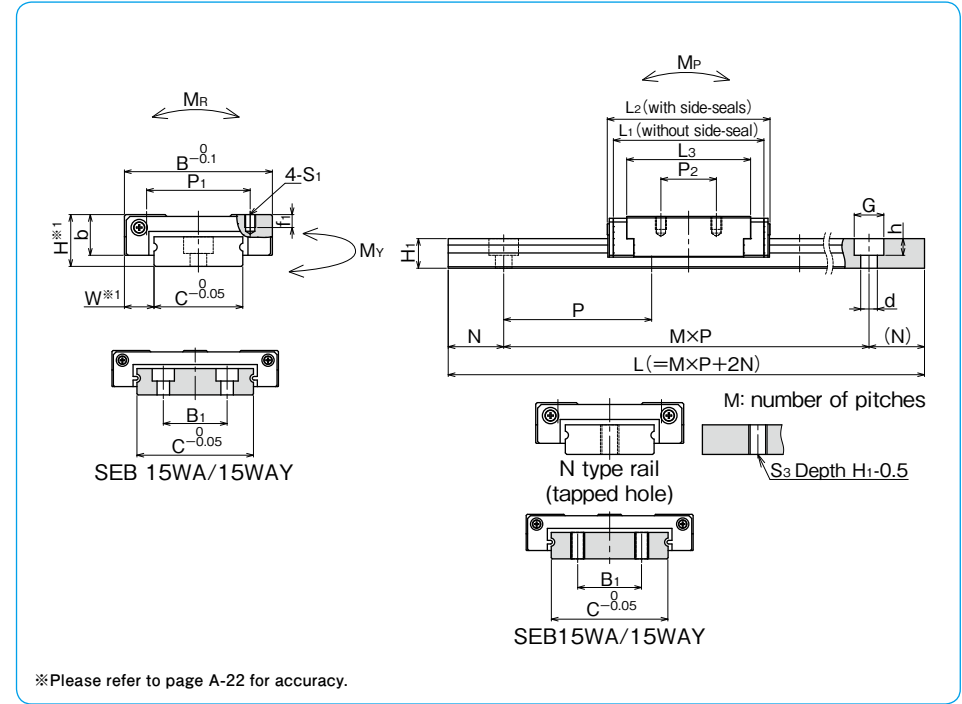
※ The symbol for the number of axes does not mean the number of rails ordered.

part number		assembly dimensions		block dimensions											
standard	anti-corrosion	H	W	B	L ₁	L ₂	P ₁	P ₂	S ₁	f ₁	L ₃	P ₃	S ₂	f ₂	b
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SEB12WA	SEBS12WA	14	8	40	40.7	44	28	15	M3	3.5	33.5	—	—	—	11
SEB12WAY	SEBS12WAY				55	58.5		28			47.8				
SEB15WA	SEBS15WA	16	9	60	51.2	55	45	20	M4	4.5	42	—	—	—	13
SEB15WAY	SEBS15WAY				70.5	74		35			61.1				

All the SEB blocks are made of stainless steel (SEBS marking).

part number		standard rail length L mm														
standard	anti-corrosion	70	110	150	190	230	270	310	350	390	430	470	510	550	590	630
SEB12WA	SEBS12WA	70	110	150	190	230	270	310	350	390	430	470	510	550	590	630
SEB15WA	SEBS15WA	70	110	150	190	230	270	310	350	390	430	470	510	550	590	630

Joint rails are used when the required length exceeds the maximum standard length listed in the dimension tables. Please contact NB for details. SEB15WAY block lengths exceed the minimum standard rail length.



guide rail dimensions							basic load rating		allowable static moment			mass		block size
H ₁	C	B ₁	d × G × h	S ₃	N	P	dynamic C	static C ₀	M _P	M _Y	M _R	block g	guide rail g/100mm	
mm	mm	mm	mm		mm	mm	kN	kN	N · m	N · m	N · m			
8	24	—	4.5 × 8 × 4.5	M5	15	40	3.64	5.21	25.7	30.7	63.8	77	138	
							4.75	7.62	53.2	63.4	93.3	109		
9.5	42	23	4.5 × 8 × 4.5	M5	15	40	6.29	8.51	52.2	62.2	180	154	294	
							8.35	12.7	113	134	271	222		

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

part number		maximum length mm			
standard	anti-corrosion	counterbore standard	counterbore anti-corrosion	tapped hole (N type) standard	tapped hole (N type) anti-corrosion
670	710	1,900	1,300	1,900	1,000
670	710	750	790	830	870