

SEB-WA TYPE

– Wide block –
– 3/7/9 –

part number structure

example **SEBS 9WA Y UU 2 T1 -289 N P/W2**

specification (rail)
SEB: standard
SEBS: anti-corrosion

size

block
blank: standard
Y: long

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)
T0: 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.

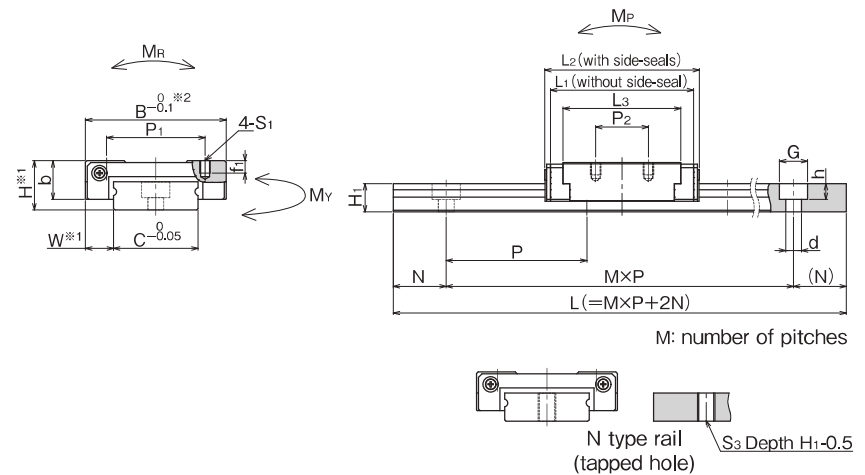
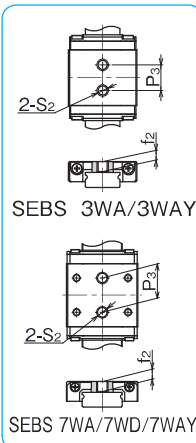
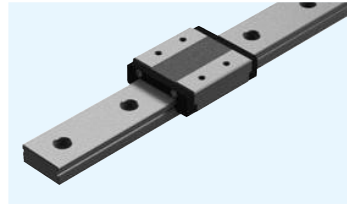
part number		assembly dimensions		block dimensions											
standard	anti-corrosion	H	W	B	L ₁	L ₂	P ₁	P ₂	S ₁	f ₁	L ₃	P ₃	S ₂	f ₂	b
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
—	SEBS 3WA	4.5	3	12	14.2	15	—	—	—	—	9.7	4.5	M2	1.7	3.5
	SEBS 3WAY				19	19.8					14.5	8			
—	SEBS 7WA	9	5.5	25	30.1	32	18	12	M2.6	2.5	22.1	12	M4	3.5	7
	SEBS 7WD							10							
	SEBS 7WAY				39.6	41	19	19	M3	2.8	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													
standard	anti-corrosion	L													
mm	mm	mm													
—	SEBS 3WA	40	55	70	85	100									
—	SEBS 7WA	50	80	110	140	170	200	230	260	290	320	350	380	410	470
SEB 9WA	SEBS 9WA	50	80	110	140	170	200	230	260	290	320	350	380	410	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.

A-40



※1 Please refer to page A-24 for accuracy.

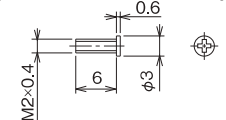
※2 B-3 only for SEBS 3WA and 3WAY

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 _{P2}	M _{Y2}	M _R	block g	guide rail g/100mm	
mm	mm	mm	mm	mm	mm	mm	kN	kN	N · m	N · m	N · m	g	g/100mm	
2.6	6	—	2.4 × 4 × 1.5	M3	5	15	0.33	0.54	0.83 4.74	0.99 5.65	1.67	3	10	3WA
							0.44	0.81	1.81 9.24	2.15 11.0	2.51	4		3WAY
5.2	14	—	3.5 × 6 × 3.2	M4	10	30	1.43	2.12	6.53 38.2	7.78 45.6	15.2	21	51	7WA
							1.90	3.19	14.1 73.8	16.8 87.9	22.8	30		7WD
														7WAY
7.5	18	—	3.5 × 6 × 4.5	M4	10	30	2.49	3.66	15.2 77.6	18.1 92.5	33.9	38	96	9WA
							3.25	5.35	31.4 149	37.4 178	49.5	55		9WD
														9WAY

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

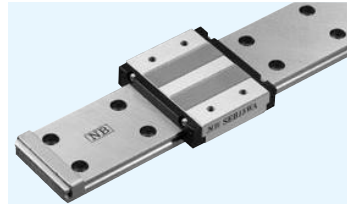
maximum length mm		length mm	
counterbore	tapped hole (N type)	counterbore	tapped hole (N type)
standard	anti-corrosion	standard	anti-corrosion
—	500	—	150
—	1,300	—	700
500 530	1,900	1,480	1,900

SEBS3WA/3WAY rail mounting screw
SEBS3WA/3WAY counterbore type rails are provided with custom screws for mounting.



SEB-WA TYPE

— Wide block —
— 12/15 —



part number structure

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

specification (rail)
SEB: standard
SEBS: anti-corrosion

size

block
blank: standard
Y: long

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)
T0: 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

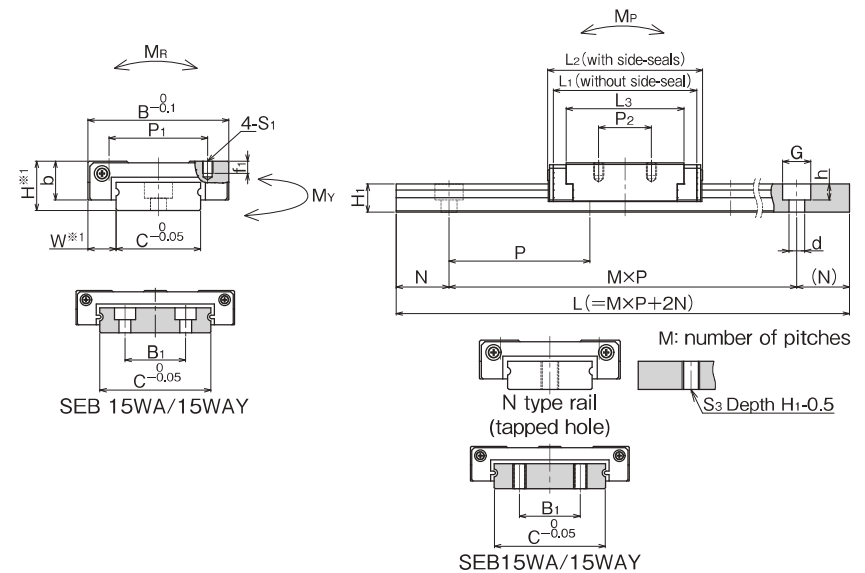
※ The symbol for the number of axes does not mean the number of rails ordered.

part number		assembly dimensions		block dimensions											
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													
standard	anti-corrosion	L mm													
SEB12WA	SEBS12WA	70	110	150	190	230	270	310	350	390	430	470	510	550	630
SEB15WA	SEBS15WA	70	110	150	190	230	270	310	350	390	430	470	510	550	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.



※Please refer to page A-24 for accuracy.

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 _{P2}	M _{Y2}	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	3.64	5.21	25.7 126	30.7 150	63.8	77	138	12WA
							4.75	7.62	53.2 245	63.4 292	93.3	109		12WAY
9.5	42	23					294	6.29	8.51	52.2 258	62.2 307	180	154	15WA
								8.35	12.7	113 525	134 625	271	222	15WAY

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	tapped hole (N type)	standard	anti-corrosion
670	710				
670	710	750	790	830	870