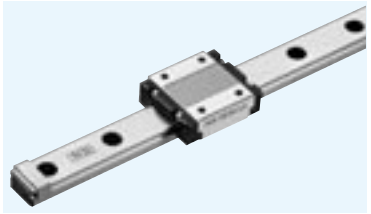
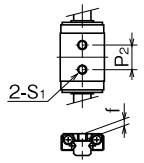
SEB-A/AY TYPE



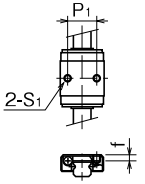
part number structure

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
- 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

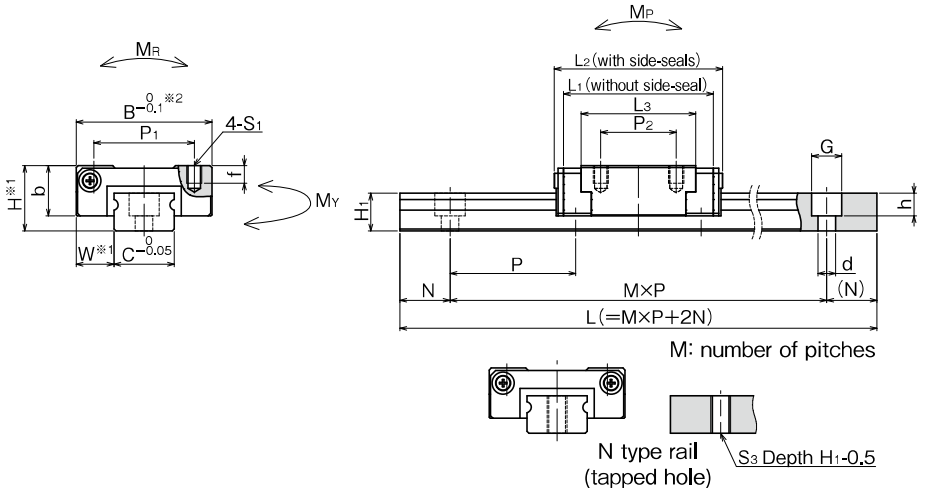


SEBS 2A/3A/3AY/5AY



SEBS 5A

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



※1 Please refer to page A-22 for accuracy.
※2 $B^{0}_{-0.05}$ only for SEBS 2A, 3A and 3AY.

part number		assembly dimensions		block dimensions									
standard	anti-corrosion	H mm	W mm	B mm	L1 mm	L2 mm	P1 mm	P2 mm	S1	f mm	L3 mm	b 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	

guide rail dimensions						basic load rating		allowable static moment			mass		block size
H1 mm	C mm	d×G×h mm	S3	N mm	P mm	dynamic C kN	static Co kN	MP / MP2 N・m	MY / MY2 N・m	MR N・m	block g	guide rail 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	5	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	2		3AY
4	5	2.4×3.5×1	M2.6		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	5		5AY
4.7	7	2.4×4.2×2.3	M3			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	16		7AY

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

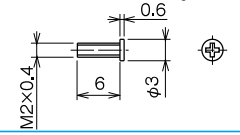
part number		standard rail length L mm														
standard	anti-corrosion															
—	SEBS 2A	32	40	56	80	104										
—	SEBS 3A	30	40	60	80	100										
—	SEBS 5A	40	55	70	85	100	115	130	145	160						
—	SEBS 7A	40	55	70	85	100	115	130	145	160	175	190	205	220	235	250

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.

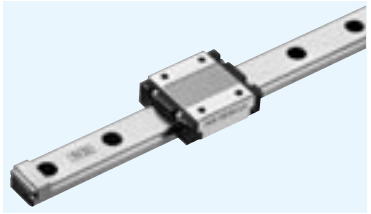
maximum length mm				
counterbore		tapped hole (N type)	
standard	anti-corrosion	standard	anti-corrosion
—	—	—	150
—	—	—	150
—	600	—	300
—	1,300	—	700

265 280 295 310

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



SEB-A/AY TYPE

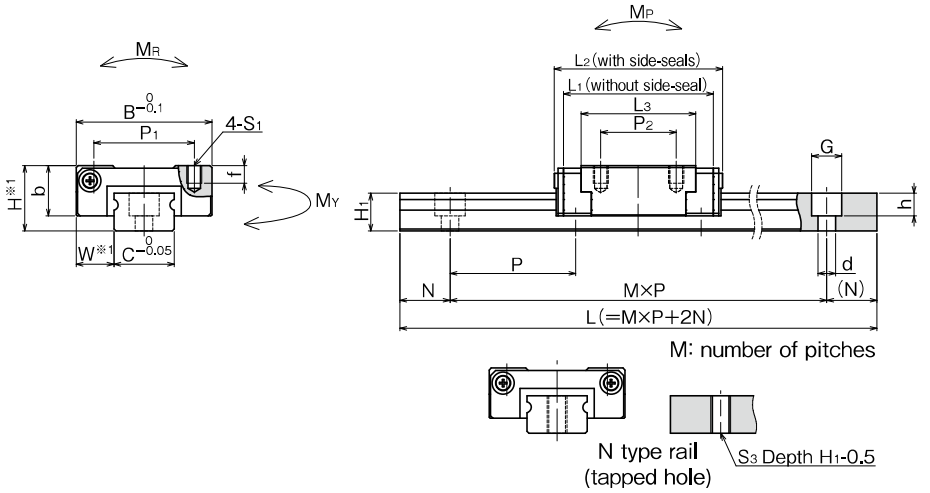


part number structure

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

- specification — **SEB**: standard; **SEBS**: anti-corrosion
- size — 15A
- block — **blank**: standard; **Y**: long
- seal — **blank**: without side-seal; **UU**: with side-seals
- number of blocks attached to one rail — 2
- preload symbol — **TO**: clearance; **blank**: standard; **T1**: light
- total length of rail — 589
- 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.



※Please refer to page A-22 for accuracy.

part number		assembly dimensions		block dimensions									
standard	anti-corrosion	H mm	W mm	B mm	L1 mm	L2 mm	P1 mm	P2 mm	S1	f mm	L3 mm	b 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	22.8	10
SEB12AY	SEBS12AY				42	45.5		20			34.7	
SEB15A	SEBS15A	16	8.5	32	38.5	42	25	20		4	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					69.5	

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

part number		standard rail length L mm															
standard	anti-corrosion																
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
H1 mm	C mm	d×G×h mm	S3	N mm	P mm	dynamic C kN	static Co kN	MP / MP2 N・m	MY / MY2 N・m	MR N・m	block g	guide rail g/100mm	
5.5	9	3.5×6×3.5	M4	7.5	20	1.92	2.53	7.64 43.1	9.11 51.3	11.5	19	30	9A
						2.62	3.94	17.5 88.5	20.8 105	17.9	28		9AY
7.5	12	3.5×6×4.5		10	25	2.60	3.20	10.4 57.0	12.4 68.0	20.0	37	60	12A
						3.65	5.21	25.7 127	30.7 151	32.6	55		12AY
9.5	15		M5	15	40	4.74	5.67	24.5 131	29.2 157	43.9	68	100	15A
						6.65	9.22	60.7 295	72.4 351	71.4	101		15AY
15	20	6×9.5×8.5	M6	20	60	8.99	11.1	72.7 367	86.7 437	114	226	209	20A
						12.4	17.8	176 823	210 981	182	338		20AY

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
355	375	395	415	435	455	475		500	1,480	500	1,000
445	470	495									
670								1,900		1,900	