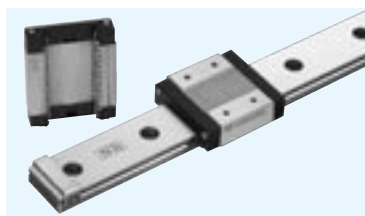


SEBS-WBS/WB/WBY TYPE

— 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

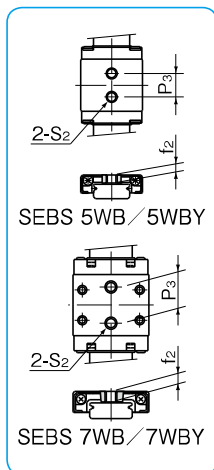
preload symbol
TO: clearance
blank: standard
T1: light

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

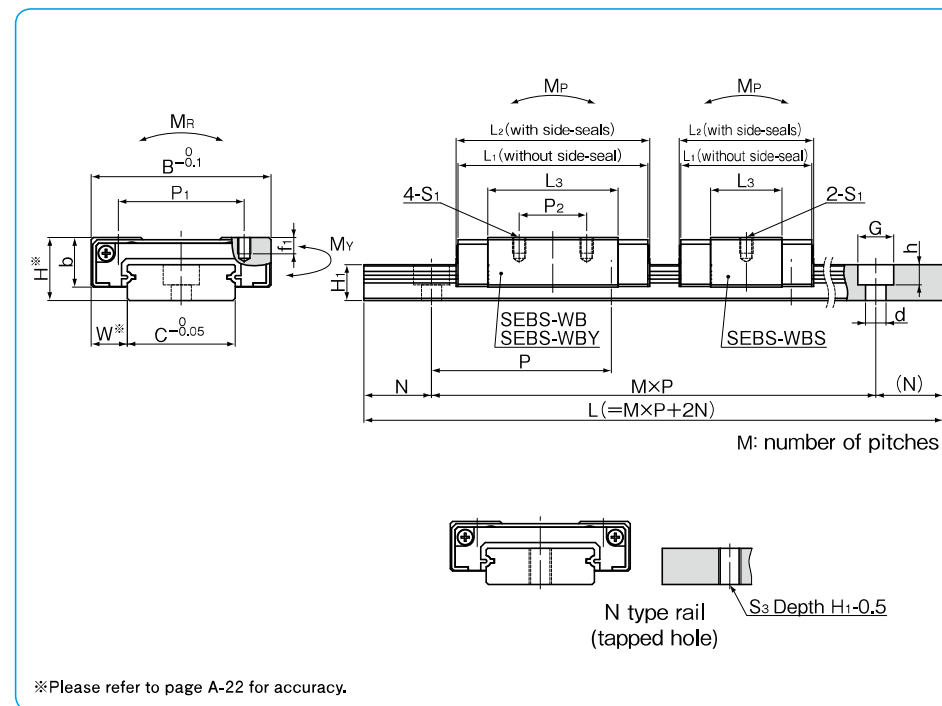


* The symbol for the number of axes does not mean the number of rails ordered.

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	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	2.8	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.



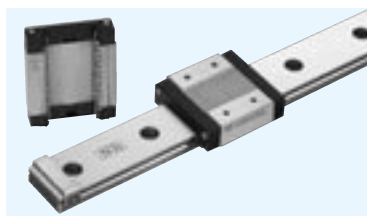
guide rail dimensions							basic load rating			allowable static moment			mass		block size
H1	C	B1	d x G x h	S3	N	P	dynamic C	static Co	MP	MY	MR	block	guide rail		
mm	mm	mm	mm		mm	mm	kN	kN	N · m	N · m	N · m	g	g/100mm		
4	10	—	3 × 5.5 × 3	M3	5	20	0.71	1.17	2.60	2.18	5.99	7	26		
							0.91	1.68	5.16	4.33	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
	1,300	700
500 530	1,480	1,000

SEBS-WBS/WB/WBY TYPE

— Retained Ball • Wide Type —



part number structure

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

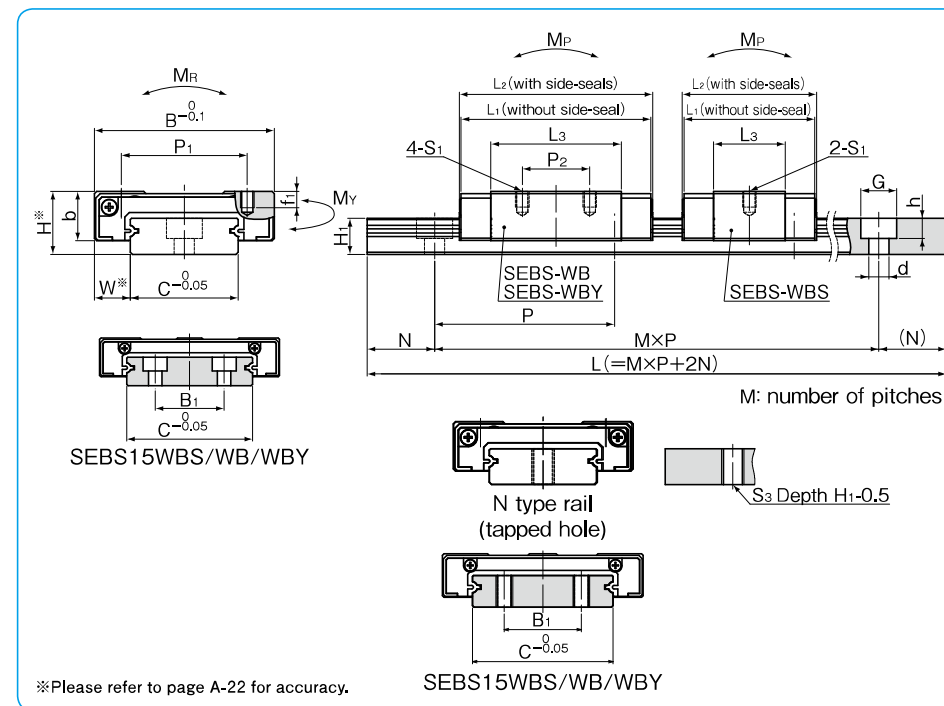
- SEBS**: anti-corrosion
- size**
- block**
S: short
blank: standard
Y: long
- seal**
blank: without side-seal
UU: with side-seals
- number of blocks attached to one rail**
- preload symbol**
TO: clearance
blank: standard
T1: light
- symbol for number of axes***
blank: single axis
W2: 2 parallel axes
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	14	8	40	29.7	30.1	28	—	M3	3.5	15.9	—	—	—	11
SEBS12WB				42.8	43.2		15			29				
SEBS12WB Y				58.3	58.7		28			44.5				
SEBS15WBS	16	9	60	39.4	39.8	45	—	M4	4.5	24	—	—	—	13
SEBS15WB				54.2	54.6		20			38.8				
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 C ₀	M _P M _{P2}	M _Y M _{Y2}	M _R	block g	guide rail g/100mm		
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	150	126	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	750	790	830	870		1,480	1,000