

NB SLIDE GUIDE SEBS type

MINIATURE SLIDE GUIDE series COMPLETING THE PRODUCT LINE-UP

SEBS3A/3AY SEBS3WA/3WAY







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STRUCTURE AND ADVANTAGES

NB's slide guide SEBS3A type consists of a block and a guide rail, both of which have two precision ground raceway grooves. The block consists of a main body, balls, and return caps.

Compact Design

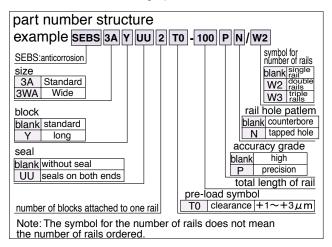
The two raceway and four-point contact structure of the SEBS3A type minimize its height and give further advantage installation with limited space and reduces overall weight.

High Moment Loads

With the wide block (WA type), long block (AY type), and wide and long block combination(WAY type) are available and the versatile selection of blocks will realize an increase of moment capacity in your application.

Anti-Corrosion Type

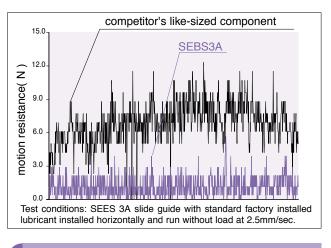
The SEBS3A type slide guide uses Martensite stainless steel that is highly resistant to corrosion and



may be used in hostile environments.

Smooth Motion

Based on NB's manufacturing technology expertise for slide guide product, smooth linear motion movement is maintained evenly with the compact sized SEBS3A.



ACCURACY

The SEBS 3A type slide guide is available in two grades of acuracy: high-grade (no symbol) and precision-grade (P).

Figure1 Accuracy		unit/mm
accuracy garade	high	precision
accuracy symbol	none	Р
allowable dimensional difference in height H	±0.020	±0.010
paired difference for height H	0.015	0.007
allowable dimensional difference in width W	±0.025	±0.015
paired difference for width W	0.020	0.010

	assembly dimensions			block dimensions						
part number	Н	W	В	L1	L ₂	Pa	Sa	l	L₃	b
	mm	mm	mm	mm	mm	mm		mm	mm	mm
SEBS 3A -N	4	2.5	8	10.5	11.8	3.5	M1.6	1.3	6.5	3
SEBS 3AY-N	4	2.5	0	14.5	15.8	5.5	M2		10.5	3
SEBS 3WA	4 5	3	12	14.2	15	4.5	MO	4 7	9.7	3.5
SEBS 3WAY	4.5	3	12	19	19.8	8	M2	1.7	14.5	3.5
SEBS 3WA -N	4 5	0	10	14.2	15	4.5	140	4 7	9.7	0.5
SEBS 3WAY-N	4.5	3	12	19	19.8 8 M2 1	IVI2 1.	1.7	14.5	3.5	

		maximum length						
part number		L						
		mm						
SEBS 3A-N	30	40	60	80	100	150		
SEBS 3WA	40	55	70	85	100	150		
SEBS 3WA-N	40	55	70	85	100	150		

Contact NB for rail length exceeds the maximum standard length listed in the dimensional tables.

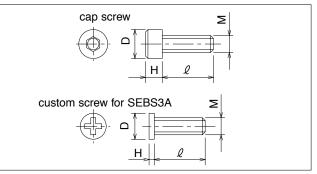
MOUNTING BOLTS

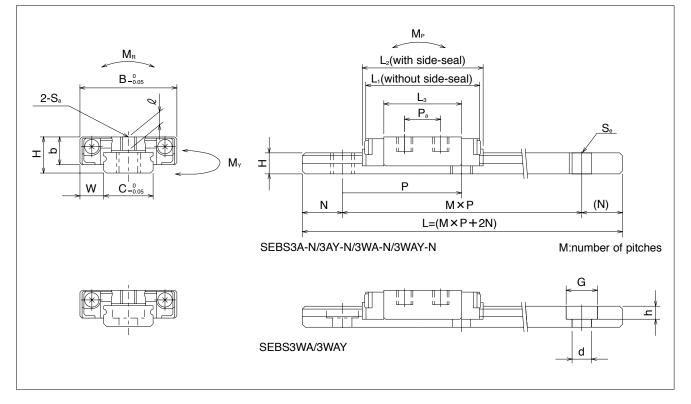
Mounting bolts for SEBS3A are avilable from NB. M2 custom type bolts come with SEBS3WA and SEBS3WAY(mounting holes on the rail are counterbore type).

Table2 Mounting Bolts

bolt type	size	D	Н	pitch	l
		mm	mm	mm	mm
cap screw	M2	3.8	2	0.4	4,5,6,8,10
custom screw	M2	3	0.6	0.4	6

Figure1 Mounting Bolts





		guide-ra	il dimensions			basic load rating		load rating allowable static moment			ma		
H1	С	Se	d×G×h	Ν	Р	dynamic	static	allowable static moment block guide		guide	size		
						C	Co	Mp	My	MR	DIOCK	rail	5126
mm	mm		mm	mm	mm	kN	kN	Nm	Nm	Nm	g	g/100mm	
2.6	3	M1.6		5	10	0.19	0.31	0.33	0.39	0.50	1.0	5.3	ЗA
2.0	3	1011.0	_	5	10	0.31	0.51	0.88	1.04	0.82	1.6	5.5	3AY
2.6	6	_	2.4×4×1.5	5	15	0.28	0.47	0.82	0.89	1.46	2.4	11.0	3WA
2.0	0	_	2.4 ~ 4 ~ 1.5	5	15	0.42	0.71	1.70	2.02	2.20	3.4	11.0	3WAY
2.6	6	МЗ		5	15	0.28	0.47	0.82	0.89	1.46	2.4	11.0	3WA
2.0	0	1013	_	5	15	0.42	0.71	1.70	2.02	2.20	3.4	11.0	3WAY



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INSTALLATION

Shapes of mounting planes

Slide Guides are generally mounted by pushing the reference surface of the rail and block against the shoulder of the mounting surface.

An escape groove should be provided at the corner of the shoulder in order to avoid interference with the corner of the rail or block.

Figure2 Mounting Reference Surface Shapes-1

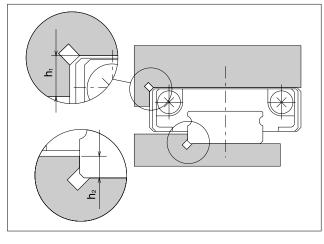


Table3 Shoulder height of mounting

unit:mm

part number	shoulder height table	shoulder height rail
part number	h₁	h₂
SEBS3A, 3AY	1.2	0.8
SEBS3WA, 3WAY	1.5	0.8

Recommended tightening torque

The bolts used to secure the rail should be tightened using a torque wrench. The recommended torque values are given in Table5.

Figure3 Mounting Reference Surface Shapes-2

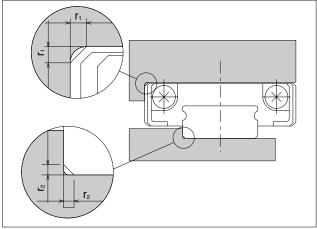


Table4 Maximum corner radius

unit:mm

part number	installed table	installed rail r2
SEBS3A, 3AY	0.15	0.1
SEBS3WA, 3WAY	0.15	0.1

Table5 Recommended Tightening Torque unit:N · m

	<u> </u>	
part number	bolt size	recommended torque
SEBS3A-N, 3AY-N	M1.6	0.15
SEBS3WA, 3WAY	M2	0.31
SEBS3WA-N, 3WAY-N	M3	1.0

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