


Miniature Linear Guides (Standard Blocks with Dowel Holes)

Light Preload / Slight Clearance

Similar Products Comparison Points

MISUMI original specifications with dowel holes. Requires less time for assembly and has better repeatability.

Miniature Linear Guides (Standard Blocks with Dowel Holes) – Light Preload, Interchangeable, Slight Clearance



RoHS10

Material Hardness

Stainless Steel
56 HRC min.

Type

Light Preload High Grade	Slight Clearance Standard Grade
SSEBN	SSEBNZ
SSE2BN	SSE2BNZ
SSEBNL	SSEBNLZ
SSE2BNL	SSE2BNLZ

MX (Lubrication Unit)

Blank: None
-MX: Provided

L Dimension

Selectable
Configurable

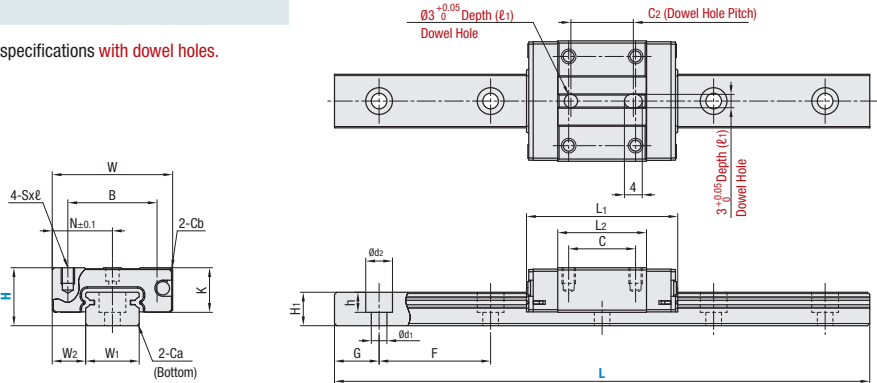
Number of Blocks

1
2
1
2

Heat Resistant Temperature: -20–80°C

For L Configurable, G dimensions differ from those shown in the table below. For details, P.608.

Features: MISUMI original specifications with dowel holes.



Precautions for Use

- Blocks are equipped with retainers (wire) to prevent balls from falling out. For proper block handling, refer to P.602.
- Radial clearances and accuracies are not guaranteed if the blocks and rails are interchanged from the original set combinations.
- Straight grooves are provided on datum planes. When using, be sure to match the datum lines.
- Rails cannot be connected end to end.
- The accuracy of Linear Guides is guaranteed after mounting the rail (fastening screws on the rail and pushing it onto the datum plane). Minor bending of the rail will be adjusted after being mounted and will not affect the performance.

Accessories

– H8 comes with cap screws. (M2x6).

Others

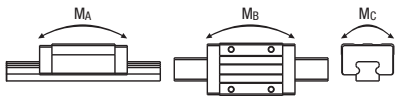
– Filled with Lithium soap based grease (Multemp Grease PS2 by Kyodo Yushi Co., Ltd.).
– For operating life calculations, please refer to P.604, or by using our free software at, http://www.misumiusa.com/lg-bs_software/

Part Number			L	Block Dimensions								Dowel Hole Dimensions			Guide Rail Dimensions							
Type	MX	H		W	L ₁	B	C	S x ℓ	L ₂	K	Cb	N	C ₂	(ℓ ₁)	W ₁	W ₂	H ₁	Ca	Counterbored Holes d ₁ x d ₂ x h	F	G	
SSEBN SSE2BN SSEBNL SSE2BNL	SSEBNZ SSE2BNZ SSEBNLZ SSE2BNLZ	—	8	40–130 (70)	17	23.6	12	8	M2 x 2.5	13.6	6.5	0.3	8.5	8	2	7	5	4.7	0.3	2.4 x 4.2 x 2.3	15	5
		Blank: None -MX: Provided	10	35–275 (95)	20	30	15	10	M3 x 3	19	7.8	0.3	10	10	2.5	9	5.5	5.5	0.3	3.5 x 6 x 3.5	20	7.5
			13	45–470 (120)	27	33.9	20	15	M3 x 3.5	19.9	10	0.5	13.5	14	3	12	7.5	7.5	0.5	3.5 x 6 x 4.5	25	10
			16	70–670 (150)	32	42.4	25	20	M3 x 4	27.4	12	0.5	16	20	4	15	8.5	9.5	0.5	3.5 x 6 x 4.5	40	15
			20	100–700 (160)	40	50	30	25	M4 x 6	34.6	15	0.5	20	25	4	20	10	11	0.5	6 x 9.5 x 5.5	60	20

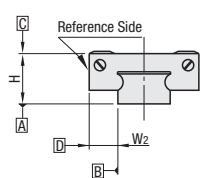
L Dimension: Dimensions in () are for the minimum rail length of the 2-Block Type

kgf=Nx0.101972

H	Basic Load Rating		Allowable Static Moment			Mass	
	C (Dynamic) kN	Co (Static) kN	M _A N · m	M _B N · m	M _C N · m	Blocks kg	Guide Rails kg/m
8	0.9	1.5	4.1	4.1	5.2	0.01	0.19
10	1.5	2.5	5.1	5.1	10.2	0.02	0.31
13	2.2	3.3	8.8	9.5	16.1	0.04	0.61
16	3.6	5.4	21.6	23.4	39.6	0.06	1.02
20	5.2	8.5	48.4	48.4	86.4	0.12	1.65



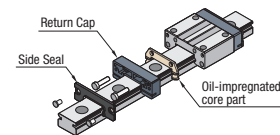
Preload & Accuracy Standards



Specifications	Light Preload High Grade	Slight Clearance Standard Grade
Radial Clearance	-3–0	0–15
Height H Tolerance	±20	±20
Height H Pair Variation	15	40
Width W ₂ Tolerance	±25	±25
Width W ₂ Pair Variation	20	40
Running Parallelism of surf. C against surf. A	Refer to P.602	
Running Parallelism of surf. D against surf. B		

Slight Clearance Type has clearance (Gap) between rails and blocks. If precision / rigidity is required, select Light Preload Type.

Lubrication Unit MX



Miniature Linear Guides (Standard Blocks with Dowel Holes)

Light Preload / Slight Clearance, *continued*

Part Number Example

Part Number - L

SSEBN10 - 275
SSE2BNL10L - 100 L Type Greased
SSE2BNL10G - 100 G Type Greased

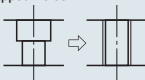
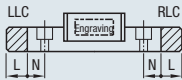
Alternative grease types available.

Blocks and rails are not sold as separate items. This Type has guaranteed radial clearances and accuracies as sets of blocks and rails.

Part Number Alterations

Part Number - L - (MC / RLC / LLC)







SSEBN16 - 430 - MC

Alterations	Code	Spec.												
<p>Tapped Holes</p> 	<p>MC</p>	<p>Changes rail mounting holes from counterbored holes to tapped holes.</p> <table><tr><th>H</th><th>MC</th></tr><tr><td>8</td><td>M3</td></tr><tr><td>10</td><td>M4</td></tr><tr><td>13</td><td>M5</td></tr><tr><td>16</td><td>M5</td></tr><tr><td>20</td><td>M6</td></tr></table>	H	MC	8	M3	10	M4	13	M5	16	M5	20	M6
H	MC													
8	M3													
10	M4													
13	M5													
16	M5													
20	M6													
<p>Rail Ends Cut</p> 	<p>Left End Cut LLC</p> <p>Right End Cut RLC</p>	<p>Rail ends cut.</p> <p>Ordering Code: LLC</p> <table><tr><th>H</th><th>L Cut</th><th>N</th></tr><tr><td>10</td><td>2.5</td><td rowspan="3">5</td></tr><tr><td>13</td><td>5</td></tr><tr><td>16</td><td>10</td></tr></table> <ul style="list-style-type: none">① Applicable to Selectable Type only.① Cutting will shorten overall length.⊗ Not applicable to H8, 20.⊗ Not applicable to L35 of H10 and L45 of H13.	H	L Cut	N	10	2.5	5	13	5	16	10		
H	L Cut	N												
10	2.5	5												
13	5													
16	10													
<p>Rail is cut with the product ID facing out (datum on other side).</p>														
<p>3-Block Specifications</p>	<p>B3</p>	<p>Adds 2-blocks to the 1-block product.</p> <ul style="list-style-type: none">① There are restrictions for the L dimension length. See "Selectable Shortest Rail Length" for details. Selection Example: SSEBNL10-200-B3												
<p>4-Block Specifications</p>	<p>B4</p>	<p>Adds 3-blocks to the 1-block product.</p> <ul style="list-style-type: none">① There are restrictions for the L dimension length. See "Selectable Shortest Rail Length" for details. Selection Example: SSEBNL16-600-B4												

Selectable Shortest Rail Length for B3/B4

H	B3 (3-block)	B4 (4-block)
8	85	115
10	115	155
13	145	170
16	190	230
20	220	280

Options for Linear Guide

Positioning Retaining Parts	Block / Rail Fixing Parts
	
Rail Height Adjusting Blocks	
	
Rail Height Adjusting Blocks	
	

Application Example

