




# Miniature Linear Guides

## Short Blocks with Dowel Holes, Light Preload

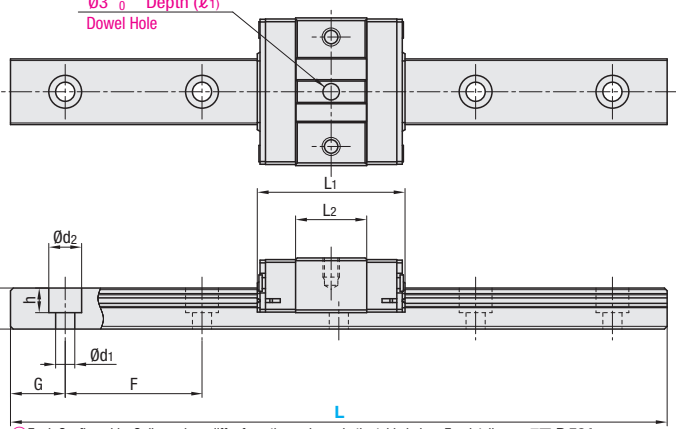
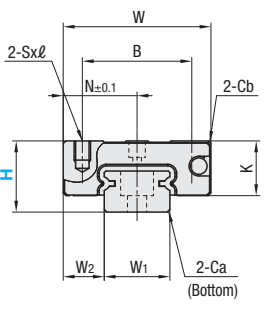
= For customers selecting MISUMI original specifications =  
frame-surrounded products are compliant with the standard specifications (Stainless Steel, Light Preload, High Grade Type). Select the block from this spec.

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

**MISUMI Original**

M Material	H Hardness	Type High Grade	MX (Lubrication Unit)	L Dimension	Number of Blocks
Standard Materials	Stainless Steel 56HRC~	SSEBSN	Blank: None -MX: Provided	Selectable	1
		SSE2BSN		2	
		SSEBSNL		Configurable	1
		SSE2BSNL		2	
	Carbon Steel 58HRC~	SEBSN		Selectable	1
		SE2BSN		2	
		SEBSNL		Configurable	1
		SE2BSNL		2	

Heat Resistant Temperature: -20 ~ 80°C



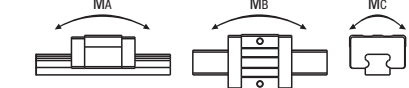
⚠ Blocks and rails are not sold as separate items. This Type has guaranteed radial clearances and accuracies as sets of blocks and rails.

⚠ For L Configurable, G dimensions differ from those shown in the table below. For details, see P.531.

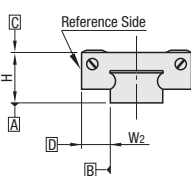
- Precautions for Use**
  - ⚠ Blocks are equipped with retainers (wire) to prevent balls from falling off. For how to handle the blocks, see P.525.
  - ⚠ Radial clearances and accuracies are not guaranteed if the blocks and rails are interchanged from the original set combinations.
  - ⚠ Straight grooves are provided on datum planes. Be sure to match the datum lines when using.
  - ⚠ Rails cannot be connected end to end.
  - ⚠ The accuracy of Linear Guides is guaranteed after mounting the rail (after 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.
- Accessory**
  - H8 comes with cap screws (M2x6).
- Others**
  - Filled with Lithium soap based grease (Multemp Grease PS2 by Kyodo Yushi Co., Ltd.).
  - For operating life calculation, see P.527.
  - For operating life calculations, use our free calculation software from [http://download.misumi.jp/mol/fa\\_soft.html](http://download.misumi.jp/mol/fa_soft.html).
  - The MX type is greased with a lithium complex grease (TOUGHLIX GREASE MP2, made by JXTG Nippon Oil & Energy Corporation).

Part Number			L	Block Dimension							Dowel Hole Dimensions		Guide Rail Dimension							
Type	MX	H		W	L <sub>1</sub>	B	Sxℓ	L <sub>2</sub>	K	Cb	N	(ℓ <sub>1</sub> )	W <sub>1</sub>	W <sub>2</sub>	H <sub>1</sub>	Ca	Counterbored Hole d1xd2xh	F	G	
<div>📏Dimensions in ( ) are for 2-Block Type.</div> <div>Stainless Steel</div> <div>Standard Specifications</div> <div>SSEBSN</div> <div>SSE2BSN</div> <div>SSEBSNL</div> <div>SSE2BSNL</div>	-	8	40~130 (55)	17	19.6	12	M2x2.5	9.6	6.5	0.3	8.5	2	7	5	4.7	0.3	2.4x4.2x2.3	15	5	
Carbon Steel	Blank: None -MX: Provided <div>(for stainless steel only)</div>	10	35~275 (75)	20	22.9	15	M3x3	11.9	7.8	0.3	10	2.5	9	5.5	5.5	0.3	3.5x6x3.5	20	7.5	
		13	45~470 (95)	27	27	20	M3x3.5	13	10	0.5	13.5	3	12	7.5	7.5	0.5	3.5x6x4.5	25	10	
		16	70~670 (110)	32	32.7	25	M3x4	17.7	12	0.5	16	4	15	8.5	9.5	0.5	3.5x6x4.5	40	15	

Basic Load Rating/Allowable Static Moment										Mass	
H	C (Dynamic) kN	Co (Static) kN	MA N·m	Mb N·m	Mc N·m	Block kg	Guide Rail kg/m				
8	0.79	1.27	1.9	1.6	4.6	0.008	0.19				
10	1.16	1.68	3.1	2.6	7.9	0.015	0.31				
13	1.63	2.38	5.2	4.4	14.8	0.025	0.61				
16	3.08	4.23	12.3	10.3	32.6	0.05	1.02				


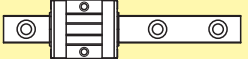


### ■ Preload and Accuracy Standards



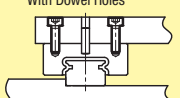
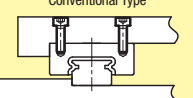
Specifications		Light Preload, High Grade
Radial Clearance		-3~0
Height H Tolerance		±20
Pair Variation of Height H		15
Width W2 Tolerance		±25
Pair Variation of Width W2		20
Running Parallelism of Plane C against Plane A		See P.525
Running Parallelism of Plane D against Plane A		See P.525

**Example**



Space Savings by approx. 20%!

**- Installation Examples -**



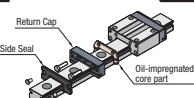
Positioning on the basis of plate end face      Positioning using a dowel hole

H	L	Unit Price			
		Stainless Steel		Carbon Steel	
8	40	SSEBSN	SSE2BSN	SEBSN	SE2BSN
	55				
	70				
	85				
	100				
	115				
	130				
	145				
	160				
	175				
10	35				
	55				
	75				
	95				
	115				
	135				
	155				
	175				
	195				
	215				
13	235				
	255				
	275				
	45				
	70				
	95				
	120				
	145				
	170				
	195				
16	220				
	245				
	270				
	295				
	320				
	345				
	370				
	395				
	420				
	445				
	470				
	70				
	110				
	150				
	190				
	230				
	270				
	310				
	350				
	390				
	430				
	470				
	510				
	550				
	590				
	630				
	670				

H	Unit Price			
	Stainless Steel		Carbon Steel	
8	SSEBSNL	SSE2BSNL	SEBSNL	SE2BSNL
10				
13				
16				

⚠ For calculation of L Dimension Configurable Type (1mm Increment), add the above amount to the unit price of the Selectable Type longer than, and closest to this L Dimension Configurable Type.

**■ Lubrication Unit MX**



The same block size as existing products!  
The oil-impregnated porous core part has been built into the product.

- Advantages of the Lubrication Unit MX:
  - Provides long-term maintenance-free operation.
  - Reduces maintenance costs.

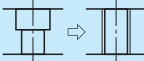
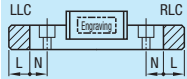
**Ordering Example**

Part Number	-	L
SSE2BSN10	-	275
SSE2BSN-MX10	-	275
SSE2BSN10L	-	175
SSE2BSN10G	-	175

(With Lubrication Unit)  
(L Type Greased)  
(G Type Greased)  
Alternative grease types available.  
P.531






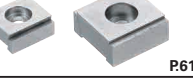
**Alterations**

Part Number	-	L	-	(MC, RLC, LLC, B3, B4)
SSE2BSN16	-	430	-	MC

Alterations	Code	Spec.												
<div>Tapped Hole</div> <div></div>	MC	<div>Changes the rail mounting holes from counterbored holes to tapped holes.</div> <table><tr><td>H</td><td>MC</td></tr><tr><td>8</td><td>M3</td></tr><tr><td>10</td><td>M4</td></tr><tr><td>13</td><td></td></tr><tr><td>16</td><td>M5</td></tr></table>	H	MC	8	M3	10	M4	13		16	M5		
H	MC													
8	M3													
10	M4													
13														
16	M5													
<div>Rail End Cut</div> <div></div>	<div>Left End Cut</div> <div>LLC</div>	<div>Cuts rail ends.</div> <div>Ordering Code LLC</div> <table><tr><td>H</td><td>L Cut</td><td>N</td></tr><tr><td>10</td><td>2.5</td><td></td></tr><tr><td>13</td><td>5</td><td>5</td></tr><tr><td>16</td><td>10</td><td></td></tr></table>	H	L Cut	N	10	2.5		13	5	5	16	10	
H	L Cut	N												
10	2.5													
13	5	5												
16	10													
<div>Rail is cut with the product ID facing out (datum on other side).</div>	<div>Right End Cut</div> <div>RLC</div>	<div>⚠ Applicable to Selectable Type only.</div> <div>⚠ Overall length will be shorter by cutting.</div> <div>⚠ Not applicable to H8.</div> <div>⚠ Not applicable to L35 of H10 and L45 of H13.</div>												
3-Block Specifications	B3	<div>Add 2 blocks to 1-block product to ship as 3-block separate item.</div> <div>⚠ There are restrictions for the L dimension length.</div> <div>See "Selectable Shortest Rail Length" for details.</div> <div>Selection Example: SEBSN10-135-B3</div>												
4-Block Specifications	B4	<div>Add 3 blocks to 1-block product to ship as 4-block separate item.</div> <div>⚠ There are restrictions for the L dimension length.</div> <div>See "Selectable Shortest Rail Length" for details.</div> <div>Selection Example: SEBSN16-670-B4</div>												

Additional Block Price						Selectable Shortest Rail Length for B3/B4		
B3: Price Adder			B4: Price Adder			H	B3 (3-block)	B4 (4-block)
Stainless Steel	Carbon Steel	MX	Stainless Steel	Carbon Steel	MX	8	85	100
8						10	95	135
10						13	120	145
13						16	150	190

**■ Options for Linear Guide**

Position Retaining Parts	Block / Rail Fixing Parts
 P.607	 P.612
 P.609	 P.613
 P.612	 P.614