

Miniature Linear Guides - Wide Rails

Long 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.

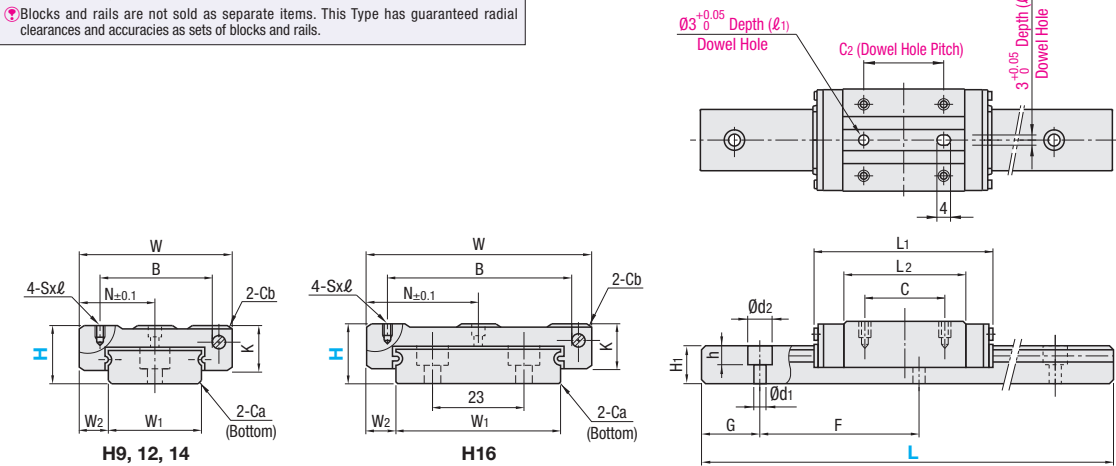
■ **Features:** MISUMI original specifications with dowel holes. Requires less time for assembly and has better repeatability.

MISUMI Original



Material Hardness	Type Light Preload High Grade	L Dimension	Number of Blocks
Standard Materials	Stainless Steel 56HRC~	SSELBWN	Selectable
		SSEL2BWN	Selectable
		SSELBWNL	Configurable
		SSEL2BWNL	Configurable
	Carbon Steel 58HRC~	SELBWN	Selectable
		SEL2BWN	Selectable
		SELBWNL	Configurable
		SEL2BWNL	Configurable

Heat Resistant Temperature: -20 ~ 80°C

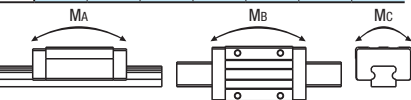


- **Precautions for Use**
- Blocks are equipped with retainers (wire) to prevent balls from falling off.
 - For how to handle the blocks, see P. 525.
 - Radial clearances and accuracies are not guaranteed if the blocks and rails are interchanged from the original set combinations.
 - Straight grooves 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.
 - Others
 - Filled with Lithium soap based grease (Mullemp 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.

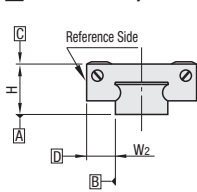
Part Number		L	Block Dimension								Dowel Hole Dimensions			Guide Rail Dimension							
Type	H		W	L ₁	B	C	Sxℓ	L ₂	K	Cb	N	C ₂	(ℓ ₁)	W ₁	W ₂	H ₁	Ca	Counterbored Hole	F	G	
			d1xd2xh																		
🌀Dimensions in () are for 2-Block Type.		9	80~290 (110)	25	43.5	19	19	M3x3	32.5	7	0.3	12.5	19	2.5	14	5.5	5.2	0.5	3.5x6x3.2	30	10
Stainless Steel Standard Specifications SSELBWN SSEL2BWN SSELBWNL SSEL2BWNL	Carbon Steel SELBWN SEL2BWN SELBWNL SEL2BWNL	12	80~290 (110)	30	51.6	23	24	M3x3	40.6	9	0.3	15	24	2.5	18	6	7.5	0.5	3.5x6x4.5	30	10
		14	110~470 (150)	40	61.6	28	28	M3x3.5	47.4	11	0.5	20	28	3.5	24	8	8	0.5	4.5x8x4.5	40	15
		16	110~670 (190)	60	74.9	45	35	M4x4.5	59.9	13	0.5	30	35	4	42	9	9.5	0.5	4.5x8x4.5	40	15

kgf=N×0.101972

H	Basic Load Rating		Allowable Static Moment			Mass	
	C (Dynamic) kN	Co (Static) kN	MA N-m	MB N-m	MC N-m	Block kg	Guide Rail kg/m
9	1.7	4.0	12.1	12.1	28.8	0.035	0.50
12	2.6	5.3	20.2	20.2	49.5	0.06	0.96
14	3.9	8.5	38.6	38.6	104.6	0.12	1.40
16	7.2	14.3	86.0	86.0	305.2	0.23	2.95



Preload and Accuracy Standards



Specifications		Unit: μm
Radial Clearance		-3~0
Height H Tolerance		±20
Pair Variation of Height H		15
Width W ₂ Tolerance		±25
Pair Variation of Width W ₂		20
Running Parallelism of Plane C against Plane A		See P. 525
Running Parallelism of Plane D against Plane A		

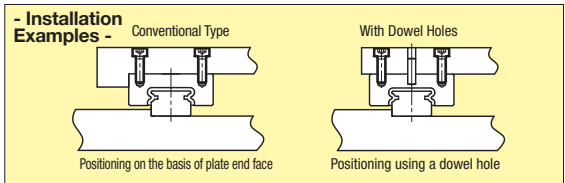
H	L	Unit Price			
		Stainless Steel		Carbon Steel	
9	80	SSELBWN	SSEL2BWN	SELBWN	SEL2BWN
	110				
	140				
	170				
	200				
	230				
	260				
	290				
	320				
	350				
12	80				
	110				
	140				
	170				
	200				
	230				
	260				
	290				
	320				
	350				
14	110				
	150				
	190				
	230				
	270				
	310				
	350				
	390				
	430				
	470				
16	110				
	150				
	190				
	230				
	270				
	310				
	350				
	390				
	430				
	470				
	510				
	550				
	590				
	630				
	670				

L Dimension Configurable Type (1mm Increment)

H	Unit Price			
	Stainless Steel		Carbon Steel	
9	SSELBWNL	SSEL2BWNL	SELBWNL	SEL2BWNL
12				
14				
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.

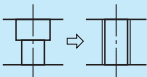

Example



Part Number - **L**
SSELBWN12L - 200
SSELBWN12L - 200 (L Type Greased)
SSELBWN12G - 200 (G Type Greased)
Alternative grease types available.
P.531



Part Number - **L** - (MC, RLC, LLC, B3, B4)
SSEL2BWN16 - 450 - MC

Alterations	Code	Spec.											
<h3>Tapped Hole</h3> 	MC	Changes the rail mounting holes from counterbored holes to tapped holes. <table border="1" data-bbox="2532 757 2598 836"><tr><td>H</td><td>MC</td></tr><tr><td>9</td><td>M4</td></tr><tr><td>12</td><td></td></tr><tr><td>14</td><td>M5</td></tr><tr><td>16</td><td></td></tr></table>	H	MC	9	M4	12		14	M5	16		
H	MC												
9	M4												
12													
14	M5												
16													
<h3>Rail End Cut</h3> 	Left End Cut LLC Right End Cut RLC	Cuts rail ends. Ordering Code: LLC <table border="1" data-bbox="2337 900 2543 981"><tr><th>H</th><th>L Cut</th><th>N</th></tr><tr><td>9</td><td rowspan="3">5</td><td rowspan="3">5</td></tr><tr><td>12</td></tr><tr><td>14</td></tr><tr><td>16</td><td></td><td>10</td></tr></table> <ul style="list-style-type: none">🔴 Applicable to Selectable Type only.🔴 Overall length will be shorter by cutting.	H	L Cut	N	9	5	5	12	14	16		10
H	L Cut	N											
9	5	5											
12													
14													
16		10											
<h3>3-Block Specifications</h3>	B3	Add 2 blocks to 1-block product to ship as 3-block separate item. <ul style="list-style-type: none">🔴 There are restrictions for the L dimension length. See "Selectable Shortest Rail Length" for details. Selection Example: SSELBWN9-230-B3											
<h3>4-Block Specifications</h3>	B4	Add 3 blocks to 1-block product to ship as 4-block separate item. <ul style="list-style-type: none">🔴 There are restrictions for the L dimension length. See "Selectable Shortest Rail Length" for details. Selection Example: SELBWN14-430-B4											

Additional Block Price

H	B3: Price Adder		B4: Price Adder	
	Stainless Steel	Carbon Steel	Stainless Steel	Carbon Steel
9				
12				
14				
16				

Selectable Shortest Rail Length for B3/B4

H	B3 (3-block)		B4 (4-block)	
	Stainless Steel	Carbon Steel	Stainless Steel	Carbon Steel
9	170	200		
12	200	260		
14	230	310		
16	270	350		

Options for Linear Guide

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