

# Miniature Linear Guides - Wide Rails

## Wide Long Blocks, 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.

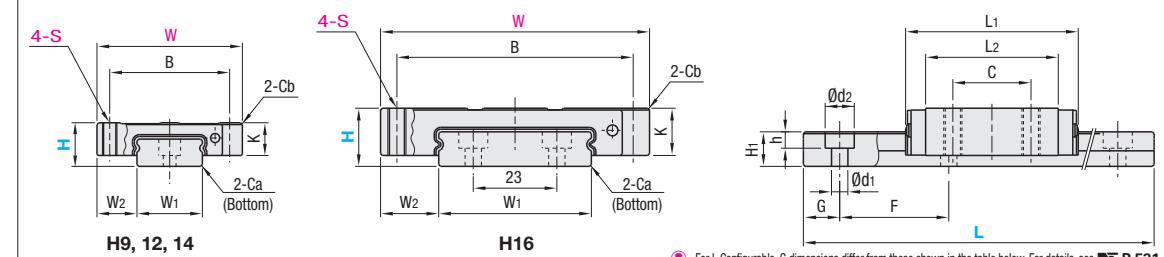
■ Features: **Wide Block** Type of MISUMI original specifications. Larger screw size has enhanced fastening strength compared to standard products.



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

Standard Materials	Material	H Hardness	Type	L Dimension	Number of Blocks
			Light Preload		
Stainless Steel 56HRC~	SSELBWM	Stainless Steel 56HRC~	Selectable	1	
	SSEL2BWM		2		
	SSELBWML	Carbon Steel 58HRC~	Configurable	1	
	SSEL2BWML		2		
Carbon Steel 58HRC~	SELBWM	Stainless Steel 56HRC~	Selectable	1	
	SEL2BWM		2		
	SELBWML	Carbon Steel 58HRC~	Configurable	1	
	SEL2BWML		2		

Heat Resistant Temperature: -20 ~ 80°C



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.  
 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 (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).

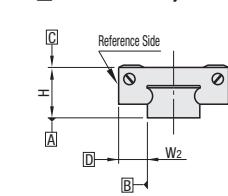
### Part Number

Type	H	L	Block Dimension							Guide Rail Dimension							
			W	L1	B	C	S	L2	K	Cb	W1	W2	H1	Ca	Counterbored Hole d1xd2xh	F	G
Dimensions in () are for 2-Block Type.	9	80~290 (110)	36	43.5	29	19	M4	32.5	7	0.3	14	11	5.2	0.5	3.5x6x3.2	30	10
Stainless Steel Standard Specifications	12	80~290 (110)	40	51.6	33	24	M4	40.6	9	0.3	18	11	7.5	0.5	3.5x6x4.5	30	10
SSELBWM SELBWM SSEL2BWM SEL2BWM SSELBWML SELBWML SSEL2BWML SEL2BWML	14	110~470 (150)	51	61.6	44	28	M4	47.4	11	0.5	24	13.5	8	0.5	4.5x8x4.5	40	15
	16	110~670 (190)	74	74.9	65	35	M5	59.9	13	0.5	42	16	9.5	0.5	4.5x8x4.5	40	15

kgf=Nx0.101972

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	0.05	0.50
12	2.6	5.3	20.2	20.2	49.5	0.09	0.96
14	3.9	8.5	38.6	38.6	104.6	0.16	1.40
16	7.2	14.3	86.0	86.0	305.2	0.3	2.95

### 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 P525
Running Parallelism of Plane D against Plane A		

= 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.



Ordering Example

Part Number - L

SSELBWM12 200  
 SSELBWM12L 200 (L Type Greased)  
 SSELBWM12G 200 (G Type Greased)

Alternative grease types available

P531

H	Selectable L	Unit Price			
		Stainless Steel	Carbon Steel	SSELBWM	SSEL2BWM
80					
110					
140					
170					
200					
230					
260					
290					
80					
110					
140					
170					
200					
230					
260					
290					
80					
110					
140					
170					
200					
230					
260					
290					
310					
350					
390					
430					
470					
510					
550					
590					
630					
670					

### L Dimension Configurable Type (1mm Increment)

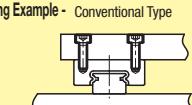
H	Unit Price			
	Stainless Steel	Carbon Steel	SSELBWM	SSEL2BWM
9				
12				
14				
16				

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.

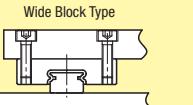


Example

### Mounting Example - Conventional Type



### Wide Block Type



\*One size larger screws. Enhanced assembly and fastening strength.

Part Number - L

SSELBWM12 200  
 SSELBWM12L 200 (L Type Greased)  
 SSELBWM12G 200 (G Type Greased)

Alternative grease types available

P531

Alterations

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

SSEL2BWML16 - 450 - MC

Alterations

Code

Spec.

Tapped Hole	MC	Changes the rail mounting holes from counterbored holes to tapped holes.
Rail End Cut	LLC	Cuts rail ends. Ordering Code: LLC

Left End Cut

LLC

H	L Cut	N
9		5
12		
14		
16		10

Rail is cut with the product ID facing out (datum on other side).

Applicable to Selectable Type only.

Overall length will be shorter by cutting.