

# Miniature Linear Guides - Wide Rails

## Long Blocks, Light Preload

**Features:** Wide Rail, Long Block Type of industry standard specifications. Higher load ratings and allowable moments than standard blocks.

### Industry Standard

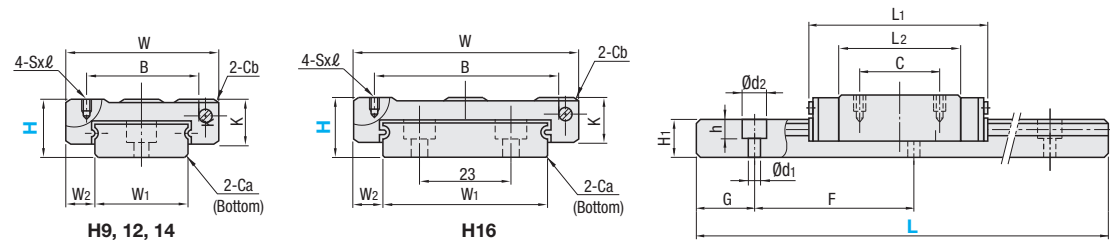


RoHS 10

- This Type has the same fitting dimensions as the other company products, and thus, can be substituted for them.
- Blocks and rails are not sold as separate items. This Type has guaranteed radial clearances and accuracies as sets of blocks and rails.

Material Hardness	Type			L Dimension	Number of Blocks
	Light Preload High Grade	Precision Grade	Slight Clearance Standard Grade		
Stainless Steel 56HRC~	SSELBW	SSELBWV	SSELBWZ	Selectable	1
	SSEL2BW	SSEL2BWV	SSEL2BWZ		2
	SSELBWL	SSELBWL	SSELBWLZ	Configurable	1
	SSEL2BWL	SSEL2BWL	SSEL2BWLZ		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. 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 (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	L <sub>1</sub>	B	C	Sxℓ	L <sub>2</sub>	K	Cb	W <sub>1</sub>	W <sub>2</sub>	H <sub>1</sub>	Ca	Counterbored Hole d <sub>1</sub> x <sub>1</sub> d <sub>2</sub> x <sub>h</sub>	F	G
SSELBW SSEL2BW SSELBWL SSEL2BWL SSELBWV SSEL2BWV SSELBWL SSEL2BWL SSELBWZ SSEL2BWZ SSELBWLZ SSEL2BWLZ	9	80~290 (110)	25	43.5	19	19	M3x3	32.5	7	0.3	14	5.5	5.2	0.5	3.5x6x3.2	30	10
	12	80~290 (110)	30	51.6	23	24	M3x3	40.6	9	0.3	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	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	42	9	9.5	0.5	4.5x8x4.5	40	15

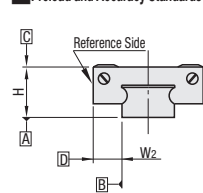
Dimensions in ( ) are for 2-Block Type.

kgf~Nx0.101972

Unit: μm

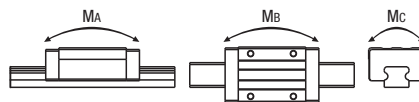
H	Basic Load Rating			Allowable Static Moment			Mass	
	C (Dynamic) kN	Co (Static) kN	MA N·m	Mb N·m	Mc N·m	Block kg	Guide Rail kg/m	
9	1.7	4.0	12.1	12.1	28.8	0.035	0.50	
12	2.6	5.3	20.2	20.2	49.5	0.06	0.96	
14	3.9	8.5	38.6	38.6	104.6	0.12	1.40	
16	7.2	14.3	86.0	86.0	305.2	0.23	2.95	

#### Preload and Accuracy Standards



Specifications	Light Preload, High Grade	Light Preload, Precision Grade	Slight Clearance, Standard Grade
Radial Clearance	-3~0	0~+15	0~+15
Height H Tolerance	±20	±10	±20
Pair Variation of Height H	15	7	40
Width W <sub>2</sub> Tolerance	±25	±15	±25
Pair Variation of Width W <sub>2</sub>	20	10	40
Running Parallelism of Plane C against Plane A	See P. 525		
Running Parallelism of Plane D against Plane A	See P. 525		

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



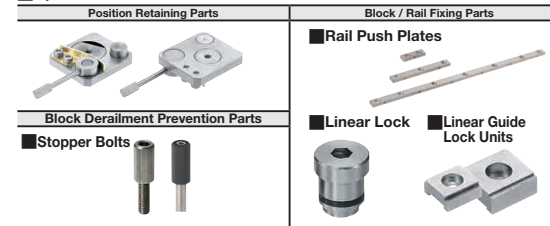
H	L	Unit Price			
		SSELBW	SSEL2BW	SSELBWZ	SSEL2BWZ
9	80				
	110				
	140				
	170				
	200				
	230				
	260				
12	80				
	110				
	140				
	170				
	200				
	230				
	260				
14	110				
	150				
	190				
	230				
	270				
	310				
	350				
16	390				
	430				
	470				
	510				
	550				
	590				
	630				
670					

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

H	Unit Price	
	SSELBWL SSELBWLZ	SSEL2BWL SSEL2BWLZ
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.

#### Options for Linear Guide



### Ordering Example

Part Number - L

- SSELBW12 - 200
- RSELBW12 - 200 (Low Temperature Black Chrome Plating)
- SSELBW12L - 200 (L Type Greased)
- SSELBW12G - 200 (G Type Greased)

Low Temperature Black Chrome Plating and various Grease types available as alternative. P.531

### Alterations

Part Number - L - (MC, RLC, LLC, WC, B3, B4)  
SSEL2BWL16 - 450 - MC

Alterations	Code	Spec.
Tapped Hole	MC	Changes the rail mounting holes from counterbored holes to tapped holes. H MC 9 M4 12 14 M5 16
Rail End Cut	Left End Cut LLC Right End Cut RLC	Cuts rail ends. Ordering Code) LLC H L Cut N 9 5 5 12 14 16 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.
Parallel Use of 2 Rails	WC	Pair variation of Height H between 2 rails is set within 15μm. Rails are shipped in pairs. Specify the actual rail quantity (even number) to order, not "pairs". Applicable to High Grade Type only. Not applicable to low temperature chrome plated products.
3-Block Specifications	B3	Add 2 blocks to 1-block product to ship as 3-block separate item. There are restrictions for the L dimension length. See "Selectable Shortest Rail Length" for details. Selection Example: SSELBW12-260-B3
4-Block Specifications	B4	Add 3 blocks to 1-block product to ship as 4-block separate item. There are restrictions for the L dimension length. See "Selectable Shortest Rail Length" for details. Selection Example: SSELBW9-290-B4

#### Additional Block Price (Same Price for High/Standard Grade) Selectable Shortest Rail Length for B3/B4

H	B3: Price Adder	B4: Price Adder	H	B3 (3-block)	B4 (4-block)
9			9	170	200
12			12	200	260
14			14	230	310
16			16	270	350

Unit price for Precision Type is the above price x1.2. (Round to the nearest Ten JPY)