

Miniature Linear Guides (Wide Rails Long Blocks)

Light Preload / Slight Clearance

Similar Products Comparison Points

Select from Light Preload Types with superior precision and rigidity.

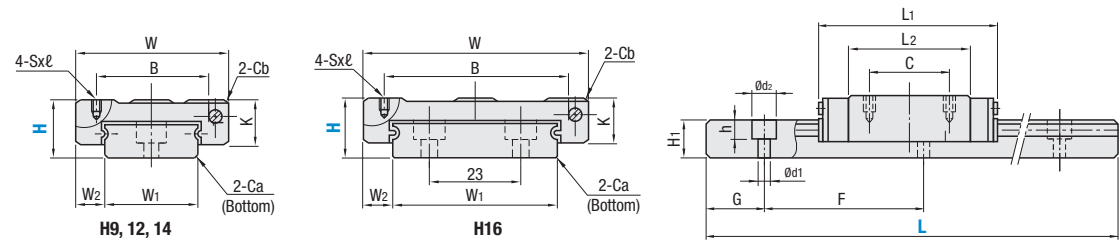


RoHS10

Material Hardness	Type			L Dimension	Number of Blocks
	Light Preload		Slight Clearance		
	High Grade	Precision Grade	Standard Grade		
Stainless Steel 56 HRC min.	SSELBW	SSELBWV	SSELBWZ	Selectable	1
	SSEL2BW	SSEL2BWV	SSEL2BWZ		2
	SSELBWL	SSELBWLW	SSELBWLZ	Configurable	1
	SSEL2BWL	SSEL2BWLW	SSEL2BWLZ		2

Heat Resistant Temperature: -20~80°C

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



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. Be sure to match the datum lines when using.
- Ⓢ Rails cannot be connected end to end.

Ⓢ The accuracy of Linear Guides are 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.

Others

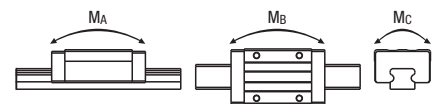
- Filled with Lithium soap based grease (Multemp Grease PS2 by Kyodo Yushi Co., Ltd.).
- For operating life calculations, please refer to P.604, or by using our free software at, http://www.misumiusa.com/lg-bs_software/

Part Number	Type	H	L	Block Dimensions							Guide Rail Dimensions						
				W	L ₁	B	C	S x ℓ	L ₂	K	Cb	W ₁	W ₂	H ₁	Ca	Counterbored Holes d ₁ x d ₂ x h	F
SSELBW SSELBWV SSELBWZ SSEL2BW SSEL2BWV SSEL2BWZ SSELBWL SSELBWLW SSELBWLZ SSEL2BWL SSEL2BWLW SSEL2BWLZ	9	80-290 (110)	25	43.5	19	19	M3 x 3	32.5	7	0.3	14	5.5	5.2	0.5	3.5 x 6 x 3.2	30	10
	12	30	51.6	23	24	M3 x 3	40.6	9	0.3	18	6	7.5	0.5	3.5 x 6 x 4.5	30	10	
	14	110-470 (150)	40	61.6	28	28	M3 x 3.5	47.4	11	0.5	24	8	8	0.5	4.5 x 8 x 4.5	40	15
	16	110-670 (190)	60	74.9	45	35	M4 x 4.5	59.9	13	0.5	42	9	9.5	0.5	4.5 x 8 x 4.5	40	15

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

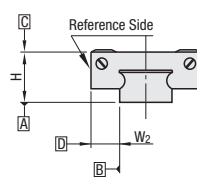
kgf=Nx0.101972

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
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



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

Preload & Accuracy Standards



Specifications	Light Preload High Grade	Light Preload Precision Grade	Slight Clearance Standard Grade
	Radial Clearance	-3-0	0-15
Height H Tolerance	±20	±10	±20
Height H Pair Variation	15	7	40
Width W ₂ Tolerance	±25	±15	±25
Width W ₂ Pair Variation	20	10	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.

Miniature Linear Guides (Wide Rails Long Blocks)

Light Preload / Slight Clearance, *continued*

Part Number Example

Part Number	-	L
SSELBW12	-	200
RSELBW12	-	200
SSELBW12L	-	200
SSELBW12G	-	200

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

Part Number Alterations

Part Number	-	L	-	(MC / RLC / LLC)
SSEL2BWL16	-	450	-	MC

Alterations	Code	Spec.												
Tapped Holes	MC	Changes rail mounting holes from counterbored holes to tapped holes. <table border="1"> <tr> <th>H</th> <th>MC</th> </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														
Rail Ends Cut	Left End Cut LLC Right End Cut RLC	Cuts rail ends. Ordering Code: LLC <table border="1"> <tr> <th>H</th> <th>L Cut</th> <th>N</th> </tr> <tr> <td>9</td> <td rowspan="4">5</td> <td>5</td> </tr> <tr> <td>12</td> <td>5</td> </tr> <tr> <td>14</td> <td>5</td> </tr> <tr> <td>16</td> <td>10</td> </tr> </table> <ul style="list-style-type: none"> Ⓢ Applicable to Selectable Type only. Ⓢ Overall length will be shorter by cutting. Ⓢ Not applicable to H6, 8, 20. 	H	L Cut	N	9	5	5	12	5	14	5	16	10
H	L Cut	N												
9	5	5												
12		5												
14		5												
16		10												
Parallel Use of 2 Rails	WC	Pair variation of Height H between 2 rails is set within 15µm. Rails are shipped in pairs. <ul style="list-style-type: none"> Ⓢ Must be ordered in quantities of 2. Ⓢ Applicable to High Grade Type only. Ⓢ Not applicable to low temperature chrome plated products. 												
3-Block Specifications	B3	Adds 2-blocks to the 1-block product. <ul style="list-style-type: none"> Ⓢ There are restrictions for the L dimension length. See "Selectable Shortest Rail Length" for details. Selection Example: SSELBW12-260-B3 												
4-Block Specifications	B4	Adds 3-blocks to the 1-block product. <ul style="list-style-type: none"> Ⓢ There are restrictions for the L dimension length. See "Selectable Shortest Rail Length" for details. Selection Example: SSELBW9-290-B4 												

Options for Linear Guide

Positioning Retaining Parts	Block / Rail Fixing Parts
	Rail Push Plates
Rail Height Adjusting Blocks	Linear Lock
Stopper Bolts	Linear Guide Lock Units

Selectable Shortest Rail Length for B3/B4

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