

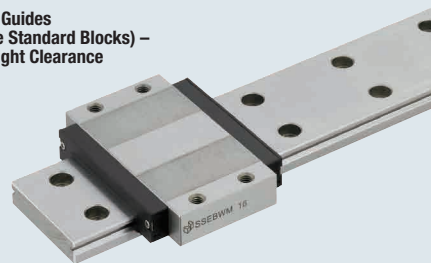
Miniature Linear Guides (Wide Rails, Wide Standard Blocks)

Light Preload / Slight Clearance

Similar Products Comparison Points

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

Miniature Linear Guides (Wide Rails, Wide Standard Blocks) – Light Preload, Slight Clearance



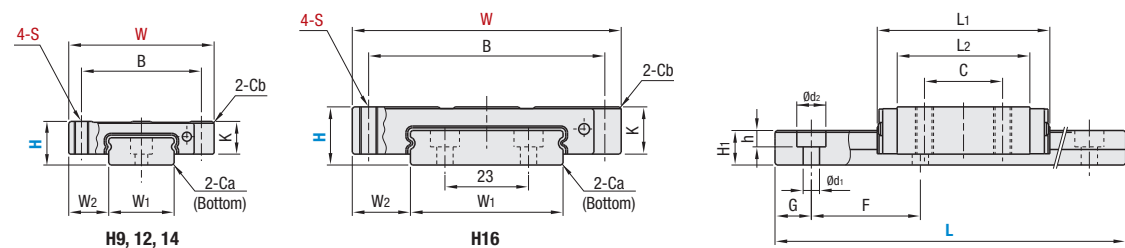
Material Hardness	Type		L Dimension	Number of Blocks
	Light Preload	Slight Clearance		
Stainless Steel 56 HRC min.	High Grade	Standard Grade	Selectable	1
	SSEBWM	SSEBWMZ		
	SSE2BWM	SSE2BWMZ	Configurable	2
	SSEBWML	SSEBWMLZ		

Heat Resistant Temperature: -20~80°C

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

RoHS10 Ⓢ Blocks and rails are not sold as separate items. Light Preload Type has guaranteed radial clearances and accuracies as sets of blocks and rails.

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



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. When using, be sure to match the datum lines.
- Ⓢ 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	L ₂	K	Cb	W ₁	W ₂	H ₁	Ca	Counterbored Holes d ₁ x d ₂ x h	F	G
SSEBWM SSE2BWM SSEBWML SSE2BWMML	SSEBWMZ SSE2BWMZ SSEBWMLZ SSE2BWMMLZ	9	50~290 (110)	36	31.1	29	12	M4	20.1	7	0.3	14	11	5.2	0.5	3.5 x 6 x 3.2	30	10
		12		40	38	33	12	M4	27	9	0.3	18	11	7.5	0.5	3.5 x 6 x 4.5	30	10
		14	70~470 (150)	51	44.3	44	15	M4	30.1	11	0.5	24	13.5	8	0.5	4.5 x 8 x 4.5	40	15
		16	70~670 (190)	74	55	65	20	M5	40	13	0.5	42	16	9.5	0.5	4.5 x 8 x 4.5	40	15

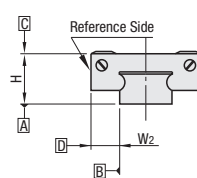
Ⓢ L Dimension: Dimensions in () are for the minimum rail length of the 2-Block Type

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	1.4	2.2	7.8	7.8	15.5	0.035	0.50
12	2.3	3.7	13.7	16.3	30.4	0.06	0.96
14	3.5	5.3	20.6	22.3	52.1	0.11	1.40
16	5.8	8.5	40.2	43.6	148	0.2	2.95



Preload & Accuracy Standards



Specifications	Light Preload High Grade	Slight Clearance Standard Grade
Radial Clearance	-3~0	0~15
Height H Tolerance	±20	±20
Height H Pair Variation	15	40
Width W ₂ Tolerance	±25	±25
Width W ₂ Pair Variation	20	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, Wide Standard Blocks)

Light Preload / Slight Clearance, continued

Part Number Example

Part Number - L

SSEBWM12 - 200
 SSEBWM12L - 200 L Type Greased
 SSEBWM12G - 200 G Type Greased

Alternative grease types available.

Part Number Alterations

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

SSE2BWMML16 - 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 LLC RLC 	Left End Cut LLC Right End Cut RLC	Rail ends cut. 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>10</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 L dimension 70 or less. 	H	L Cut	N	9	5	5	12	5	14	10	16	10
H	L Cut	N												
9	5	5												
12		5												
14		10												
16		10												
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: SSEBWM9-290-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: SSEBWM12-290-B4 												

Selectable Shortest Rail Length for B3/B4

H	B3 (3-block)	B4 (4-block)
9	140	170
12	140	200
14	190	230
16	230	270

Options for Linear Guide

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

Application Example

Installation Example

Conventional Type vs Wide Block Type

*One size larger screws
Enhanced assembly and fastening strength.