


Miniature Linear Guides (Wide Long Blocks)

Light Preload

Miniature Linear Guides
(Wide Long Blocks) –
Light Preload

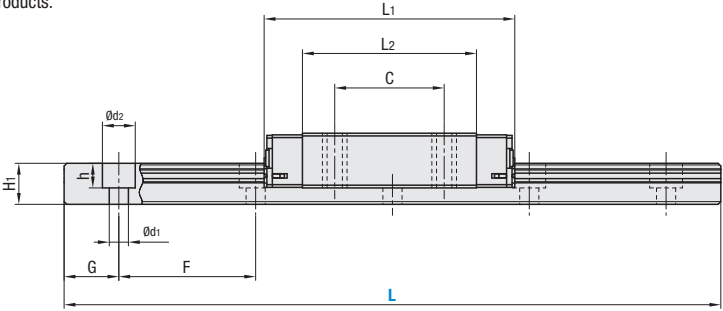
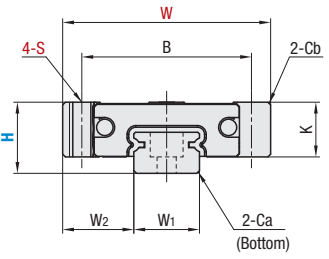


RoHS10

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

Heat Resistant Temperature: -20–80°C
ⓘ For L Configurable, G dimensions differ from those shown in the table below. For details, **P.608**.

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. 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.

Accessories

 - H8 comes with cap screws (M2 x 6).

Others

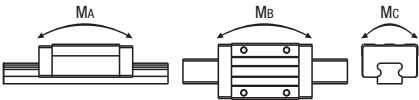
 - Filled with lithium soap based grease (Multitemp Grease PS2 by Kyodo Yushi Co. Ltd.)

Part Number		L	Block Dimensions							Guide Rail Dimensions							
Type	H		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
SSELBM SSEL2BM SSELBML SSEL2BML	8	40–130 (100)	24	32	19	13	M3	22	6.5	0.3	7	8.5	4.7	0.3	2.4 x 4.2 x 2.3	15	5
	10	55–275 (115)	31	40	24	16	M4	29	7.8	0.3	9	11	5.5	0.3	3.5 x 6 x 3.5	20	7.5
	13	70–470 (120)	38	45.8	31	20	M4	31.8	10	0.5	12	13	7.5	0.5	3.5 x 6 x 4.5	25	10
	16	110–670 (150)	44	58.3	36	25	M4	43.3	12	0.5	15	14.5	9.5	0.5	3.5 x 6 x 4.5	40	15
	20	160–700 (220)	54	67.7	46	30	M5	52.3	15	0.5	20	17	11	0.5	6 x 9.5 x 5.5	60	20

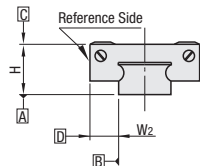
ⓘ Dimensions in () are for 2-Block Type

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
8	1.6	2.4	7.5	7.5	9.0	0.025	0.19
10	2.2	3.7	12.3	12.3	13.0	0.05	0.31
13	3.5	5.3	24.5	26.4	32.3	0.09	0.61
16	5.8	8.7	57.8	62.6	67.6	0.14	1.02
20	7.2	13.5	80.7	80.7	138.2	0.26	1.65




Preload & Accuracy Standards



Specifications	Light Preload High Grade
Radial Clearance	-3–0
Height H Tolerance	±20
Height H Pair Variation	15
Width W ₂ Tolerance	±25
Width W ₂ Pair Variation	20
Running Parallelism of surf. C against surf. A	Refer to P.602
Running Parallelism of surf. D against surf. B	

Miniature Linear Guides (Wide Long Blocks)

Light Preload, *continued*

Part Number Example

Part Number

-

L

SSELBM10

-

275

SSELBM10L

-

75

SSELBM10G


-

75

L Type Greased

G Type Greased

Alternative grease types available.

Part Number Alterations

Part Number

-

L

-

(MC / RLC / LLC)

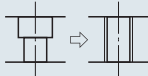
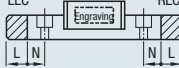
SSEL2BM16

-

430

-







MC - RLC

Alterations	Code	Spec.												
<p>Tapped Holes</p> 	MC	<p>Changes rail mounting holes from counterbored holes to tapped holes.</p> <table><tr><th>H</th><th>MC</th></tr><tr><td>8</td><td>M3</td></tr><tr><td>10</td><td>M4</td></tr><tr><td>13</td><td>M4</td></tr><tr><td>16</td><td>M5</td></tr><tr><td>20</td><td>M6</td></tr></table>	H	MC	8	M3	10	M4	13	M4	16	M5	20	M6
H	MC													
8	M3													
10	M4													
13	M4													
16	M5													
20	M6													
<p>Rail Ends Cut</p>  <p>Rail is cut with the product ID facing out (datum on other side).</p>	<p>Left End Cut LLC</p> <p>Right End Cut RLC</p>	<p>Rail ends cut.</p> <p>Ordering Code: LLC</p> <table><tr><th>H</th><th>L Cut</th><th>N</th></tr><tr><td>10</td><td>2.5</td><td rowspan="4">5</td></tr><tr><td>13</td><td>5</td></tr><tr><td>16</td><td>10</td></tr><tr><td>20</td><td>15</td></tr></table> <p>ⓘ Applicable to Selectable Type only. ⓘ Cutting will shorten overall length. ⓧ Not applicable to H8, 20.</p>	H	L Cut	N	10	2.5	5	13	5	16	10	20	15
H	L Cut	N												
10	2.5	5												
13	5													
16	10													
20	15													
3-Block Specifications	B3	<p>Adds 2-blocks to the 1-block product.</p> <p>ⓘ There are restrictions for the L dimension length. See "Selectable Shortest Rail Length" for details. Selection Example: SSELBM8-130-B3</p>												
4-Block Specifications	B4	<p>Adds 3-blocks to the 1-block product.</p> <p>ⓘ There are restrictions for the L dimension length. See "Selectable Shortest Rail Length" for details. Selection Example: SSELBML16-630-B4</p>												

Selectable Shortest Rail Length for B3/B4

H	B3 (3-block)	B4 (4-block)
8	115	—
10	155	195
13	170	220
16	230	270
20	280	340

Options for Linear Guide

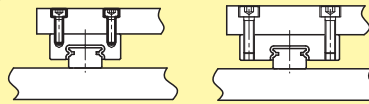
Positioning Retaining Parts	Block / Rail Fixing Parts
	Rail Push Plates 
Rail Height Adjusting Blocks 	Linear Lock 
Rail Height Adjusting Blocks Stopper Bolts 	Linear Guide Lock Units 

Application Example

Installation Example

Conventional Type

Wide Block Type



*One size larger screws have enhanced assembly and fastening strength.