

# Miniature Linear Guides

## Wide Standard Blocks, Light Preload / Slight Clearance

= 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.

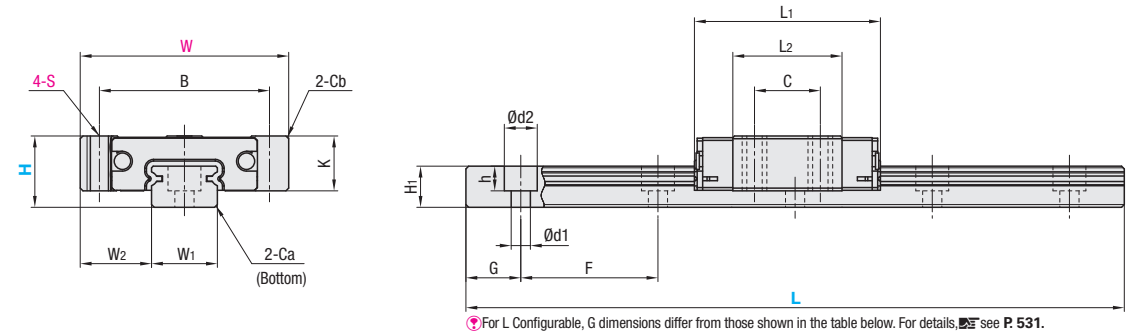
■ **Features:** Wide Block Type of MISUMI original specifications. Larger screw size has enhanced fastening strength compared to standard products.

### MISUMI Original



Material Hardness	Type		L Dimension	Number of Blocks
	Light Preload High Grade	Slight Clearance Standard Grade		
Standard Materials	Stainless Steel 56HRC~	SSEBM SSE2BM SSEBML SSE2BML	Selectable	1 2 1 2
	Carbon Steel 58HRC~	SEBM SE2BM SEBML SE2BML	Selectable	1 2 1 2

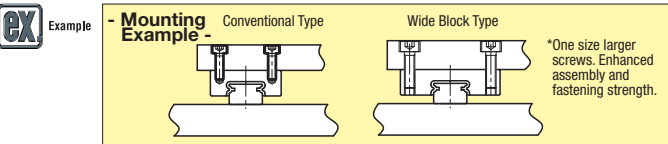
Heat Resistant Temperature: -20 ~ 80°C



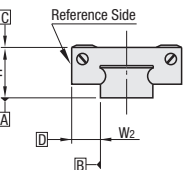
- Precautions for Use
  - Blocks are equipped with retainers (wire) to prevent balls from falling off. For how to handle the blocks, see P. 525.
  - Radial clearances and accuracies are not guaranteed if the blocks and rails are interchanged from the original set combinations.
  - Straight grooves are 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.
- Accessory
  - H8 comes with cap screws (M2x6).
- 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		H	L	Block Dimension								Guide Rail Dimension							
Type				W	L <sub>1</sub>	B	C	S	L <sub>2</sub>	K	Cb	W <sub>1</sub>	W <sub>2</sub>	H <sub>1</sub>	Ca	Counterbored Hole d1xd2xh	F	G	
⚠Dimensions in ( ) are for 2-Block Type.		8	40~130 (70)	24	23.6	19	8	M3	13.6	6.5	0.3	7	8.5	4.7	0.3	2.4x4.2x2.3	15	5	
Stainless Steel		SSEBMLZ SSE2BMLZ SSEBML SSE2BML	10	35~275 (95)	31	30	24	10	M4	19	7.8	0.3	9	11	5.5	0.3	3.5x6x3.5	20	7.5
Standard Specifications			13	45~470 (120)	38	33.9	31	12	M4	19.9	10	0.5	12	13	7.5	0.5	3.5x6x4.5	25	10
Carbon Steel			16	70~670 (150)	44	42.4	36	16	M4	27.4	12	0.5	15	14.5	9.5	0.5	3.5x6x4.5	40	15
SEBMLZ SE2BMLZ SEBML SE2BML			20	100~700 (160)	54	50	46	25	M5	34.6	15	0.5	20	17	11	0.5	6x9.5x5.5	60	20

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
8	0.9	1.5	4.1	4.1	5.2	0.015
10	1.5	2.5	5.1	5.1	10.2	0.03
13	2.2	3.3	8.8	9.5	16.1	0.05
16	3.6	5.4	21.6	23.4	39.6	0.09
20	5.2	8.5	48.4	48.4	86.4	0.17



### Preload and Accuracy Standards



Specifications		Light Preload, High Grade	Slight Clearance, Standard Grade
Radial Clearance		-3~0	0~+15
Height H Tolerance		±20	±20
Pair Variation of Height H		15	40
Width W2 Tolerance		±25	±25
Pair Variation of Width W2		20	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							
		Stainless Steel				Carbon Steel			
		High Grade	Standard Grade	High Grade	Standard Grade	High Grade	Standard Grade	High Grade	Standard Grade
8	40	SSEBM	SSE2BM	SEBMZ	SSE2BMZ	SEBM	SE2BM	SEBMZ	SE2BMZ
	55	-	-	-	-	-	-	-	-
	70	-	-	-	-	-	-	-	-
	85	-	-	-	-	-	-	-	-
	100	-	-	-	-	-	-	-	-
	115	-	-	-	-	-	-	-	-
	130	-	-	-	-	-	-	-	-
	150	-	-	-	-	-	-	-	-
	175	-	-	-	-	-	-	-	-
	195	-	-	-	-	-	-	-	-
	215	-	-	-	-	-	-	-	-
	235	-	-	-	-	-	-	-	-
	255	-	-	-	-	-	-	-	-
	275	-	-	-	-	-	-	-	-
	45	-	-	-	-	-	-	-	-
	70	-	-	-	-	-	-	-	-
10	95	-	-	-	-	-	-	-	-
	120	-	-	-	-	-	-	-	-
	145	-	-	-	-	-	-	-	-
	170	-	-	-	-	-	-	-	-
	195	-	-	-	-	-	-	-	-
	220	-	-	-	-	-	-	-	-
	245	-	-	-	-	-	-	-	-
	270	-	-	-	-	-	-	-	-
	295	-	-	-	-	-	-	-	-
	320	-	-	-	-	-	-	-	-
	345	-	-	-	-	-	-	-	-
	370	-	-	-	-	-	-	-	-
	395	-	-	-	-	-	-	-	-
	420	-	-	-	-	-	-	-	-
	445	-	-	-	-	-	-	-	-
	470	-	-	-	-	-	-	-	-
13	70	-	-	-	-	-	-	-	-
	110	-	-	-	-	-	-	-	-
	150	-	-	-	-	-	-	-	-
	190	-	-	-	-	-	-	-	-
	230	-	-	-	-	-	-	-	-
	270	-	-	-	-	-	-	-	-
	310	-	-	-	-	-	-	-	-
	350	-	-	-	-	-	-	-	-
	390	-	-	-	-	-	-	-	-
	430	-	-	-	-	-	-	-	-
	470	-	-	-	-	-	-	-	-
	510	-	-	-	-	-	-	-	-
	550	-	-	-	-	-	-	-	-
	590	-	-	-	-	-	-	-	-
	630	-	-	-	-	-	-	-	-
	670	-	-	-	-	-	-	-	-
16	100	-	-	-	-	-	-	-	-
	160	-	-	-	-	-	-	-	-
	220	-	-	-	-	-	-	-	-
	280	-	-	-	-	-	-	-	-
	340	-	-	-	-	-	-	-	-
	400	-	-	-	-	-	-	-	-
	460	-	-	-	-	-	-	-	-
	520	-	-	-	-	-	-	-	-
	580	-	-	-	-	-	-	-	-
	640	-	-	-	-	-	-	-	-
	700	-	-	-	-	-	-	-	-
	760	-	-	-	-	-	-	-	-
	820	-	-	-	-	-	-	-	-
	880	-	-	-	-	-	-	-	-
	940	-	-	-	-	-	-	-	-
	1000	-	-	-	-	-	-	-	-

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

H	L	Unit Price							
		Stainless Steel				Carbon Steel			
		High Grade	Standard Grade	High Grade	Standard Grade	High Grade	Standard Grade	High Grade	Standard Grade
8	40	SSEBML	SSE2BML	SSEBMLZ	SSE2BMLZ	SEBML	SE2BML	SEBMLZ	SE2BMLZ
	55	-	-	-	-	-	-	-	-
	70	-	-	-	-	-	-	-	-
	85	-	-	-	-	-	-	-	-
	100	-	-	-	-	-	-	-	-
	115	-	-	-	-	-	-	-	-
	130	-	-	-	-	-	-	-	-
	150	-	-	-	-	-	-	-	-
10	175	-	-	-	-	-	-	-	-
	195	-	-	-	-	-	-	-	-
	215	-	-	-	-	-	-	-	-
	235	-	-	-	-	-	-	-	-
	255	-	-	-	-	-	-	-	-
	275	-	-	-	-	-	-	-	-
	295	-	-	-	-	-	-	-	-
	315	-	-	-	-	-	-	-	-
13	335	-	-	-	-	-	-	-	-
	355	-	-	-	-	-	-	-	-
	375	-	-	-	-	-	-	-	-
	395	-	-	-	-	-	-	-	-
	415	-	-	-	-	-	-	-	-
	435	-	-	-	-	-	-	-	-
	455	-	-	-	-	-	-	-	-
	475	-	-	-	-	-	-	-	-
16	495	-	-	-	-	-	-	-	-
	515	-	-	-	-	-	-	-	-
	535	-	-	-	-	-	-	-	-
	555	-	-	-	-	-	-	-	-
	575	-	-	-	-	-	-	-	-
	595	-	-	-	-	-	-	-	-
	615	-	-	-	-	-	-	-	-
	635	-	-	-	-	-	-	-	-
20	655	-	-	-	-	-	-	-	-
	675	-	-	-	-	-	-	-	-
	695	-	-	-	-	-	-	-	-
	715	-	-	-	-	-	-	-	-
	735	-	-	-	-	-	-	-	-
	755	-	-	-	-	-	-	-	-
	775	-	-	-	-	-	-	-	-
	795	-	-	-	-	-	-	-	-

⚠ 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.



Ordering  
Example

Part Number - L  
SSEBM10 - 275  
SSEBM10L - 75 (L Type Greased)  
SSEBM10G - 75 (G Type Greased)  
Alternative grease types available.  
P. 531



Alterations

Part Number - L - (MC, RLC, LLC, B3, B4)  
SSE2BM16 - 430 - MC

Alterations	Code	Spec.
Tapped Hole	MC	Changes the rail mounting holes from counterbored holes to tapped holes.
Rail End Cut	Left End Cut LLC	Cuts rail ends. Ordering Code LLC
	Right End Cut RLC	⚠ Applicable to Selectable Type only. ⚠ Overall length will be shorter by cutting. ⚠ Not applicable to H8/20 ⚠ Not applicable to L35 of H10 and L45 of H13.
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: SSEBM10-275-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: SSEBM13-275-B4

### Additional Block Price (Same Price for High/Standard Grade)

H	B3: Price Adder		B4: Price Adder	
	Stainless Steel	Carbon Steel	Stainless Steel	Carbon Steel
8				
10				
13				
16				
20				

### Selectable Shortest Rail Length for B3/B4

H	B3 (3-block)	B4 (4-block)
8	100	130
10	115	155
13	145	195
16	230	270
20	220	280

### Options for Linear Guide

Position Retaining Parts	Block / Rail Fixing Parts
Rail Push Plates P607	Rail Push Plates P612
Rail Height Adjusting Blocks P609	Linear Lock P613
Block Derailment Prevention Parts P612	Linear Guide Lock Units P614