Miniature Linear Guides
Wide Long Blocks, Light Preload

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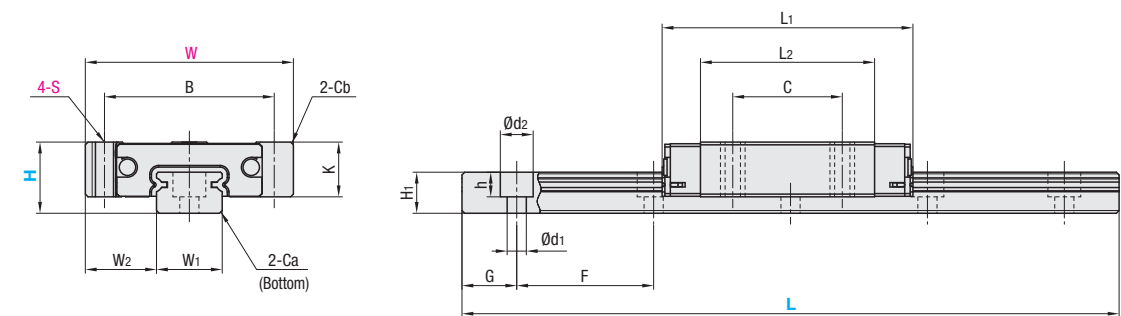
MISUMI Original

SSEL BM 10

RoHS10

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

	Type		L Dimension	Number of Blocks
■Material ■Hardness	Light Preload			
	High Grade			
	Set			
Stainless Steel 56HRC~	SSELBM		Selectable	1
	SSEL2BM			2
	SSELBML		Configurable	1
	SSEL2BML			2

Heat Resistant Temperature: -20 ~ 80°C

Ordering Example

Part Number	-	L
SSELBM10	-	275
●SSELBM10L	-	75 (L Type Greased)
●SSELBM10G	-	75 (G Type Greased)

Alternative grease types available. ☞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.

■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.

ⓘFor L Configurable, G dimensions differ from those shown in the table below. For details, see ☞ P. 531.

Part Number		Block Dimension								Guide Rail Dimension						
Type	H	L	W	L₁	B	C	S	L₂	K	Cb	W₁	W₂	H₁	Ca	Counterbored Hole d₁xd₂xh	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	2.4x4.2x2.3	15	5
	10	55~275 (115)	31	40	24	16	M4	29	7.8	0.3	9	11	5.5	0.3	3.5x6x3.5	20	7.5
	13	70~470 (120)	38	45.8	31	20	M4	31.8	10	0.5	12	13	7.5	0.5	3.5x6x4.5	25	10
	16	110~670 (150)	44	58.3	36	25	M4	43.3	12	0.5	15	14.5	9.5	0.5	3.5x6x4.5	40	15
	20	160~700 (220)	54	67.7	46	30	M5	52.3	15	0.5	20	17	11	0.5	6x9.5x5.5	60	20

ⓘ 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
8	1.6	2.4	7.5	7.5	9.0	0.016	0.19
10	2.2	3.7	12.3	12.3	13.0	0.03	0.31
13	3.5	5.3	24.5	26.4	32.3	0.06	0.61
16	5.8	8.7	57.8	62.6	67.6	0.10	1.02
20	7.2	13.5	80.7	80.7	138.2	0.18	1.65
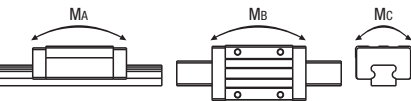
■Preload and Accuracy Standards

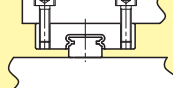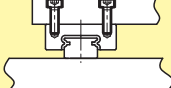| Specifications	Light Preload, High Grade
Radial Clearance	-3~0
Height H Tolerance	±20
Pair Variation of Height H	15
Width W₂ Tolerance	±25
Pair Variation of Width W₂	20
Running Parallelism of Plane C against Plane A	See P.525
Running Parallelism of Plane D against Plane A	
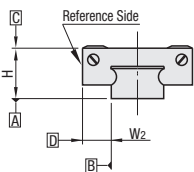
- Mounting Example -

Conventional Type / Wide Block Type

*One size larger screws. Enhanced assembly and fastening strength.

H	L	Unit Price	
		SSELBM	SSEL2BM
8	40		-
	55		-
	70		-
	85		-
	100		
	115		
	130		
10	55		-
	75		-
	95		-
	115		
	135		
	155		
	175		
	195		
	215		
	235		
	255		
	275		
13	70		-
	95		-
	120		
	145		
	170		
	195		
	220		
	245		
	270		
	295		
	320		
	345		
	370		
	395		
	420		
	445		
	470		
16	110		-
	150		
	190		
	230		
	270		
	310		
	350		
	390		
	430		
	470		
	510		
	550		
	590		
	630		
	670		
20	160		-
	220		
	280		
	340		
	400		
	460		
	520		
	580		
	640		
	700		

■L Dimension Configurable Type (1mm Increment)

H	Unit Price	
	SSELBML	SSEL2BML
8		
10		
13		
16		
20		

ⓘ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.

Alterations

Part Number	-	L	-	(MC, RLC, LLC, B3, B4)
SSEL2BM16	-	430	-	MC - RLC

Alterations	Code	Spec.
Tapped Hole	MC	Changes the rail mounting holes from counterbored holes to tapped holes.

H	MC
8	M3
10	M4
13	M4
16	M5
20	M6

Alterations	Code	Spec.
Rail End Cut (LLC left, RLC right)	LLC Left End Cut	Cuts rail ends. Ordering Code LLC
	RLC Right End Cut	Rail is cut with the product ID facing out (datum on other side).

H	L Cut	N
10	2.5	5
13	5	
16	10	

ⓘApplicable to Selectable Type only.
ⓘOverall length will be shorter by cutting.
⊗Not applicable to H8/20.

3-Block Specifications	B3	Add 2 blocks to 1-block product to ship as 3-block separate item. ⓘThere are restrictions for the L rail length. See "Selectable Shortest Rail Length" for details. Selection Example: SSELBM6-130-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 rail length. See "Selectable Shortest Rail Length" for details. Selection Example: SSELBML16-630-B4

■Additional Block Price

H	B3: Price Adder	B4: Price Adder
8	-	-
10		
13		
16		
20		

■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

Position Retaining Parts
Rail Height Adjusting Blocks
Block Derailment Prevention Parts
■Stopper Bolts

Block / Rail Fixing Parts
■Rail Push Plates
■Linear Lock
■Linear Guide Lock Units