

Miniature Linear Guides - Heat Resistant

Short / Standard / Long Blocks, Light Preload

■ **Features:** Usable at up to 150°C of operating temperature since heat resistant parts and grease are employed.

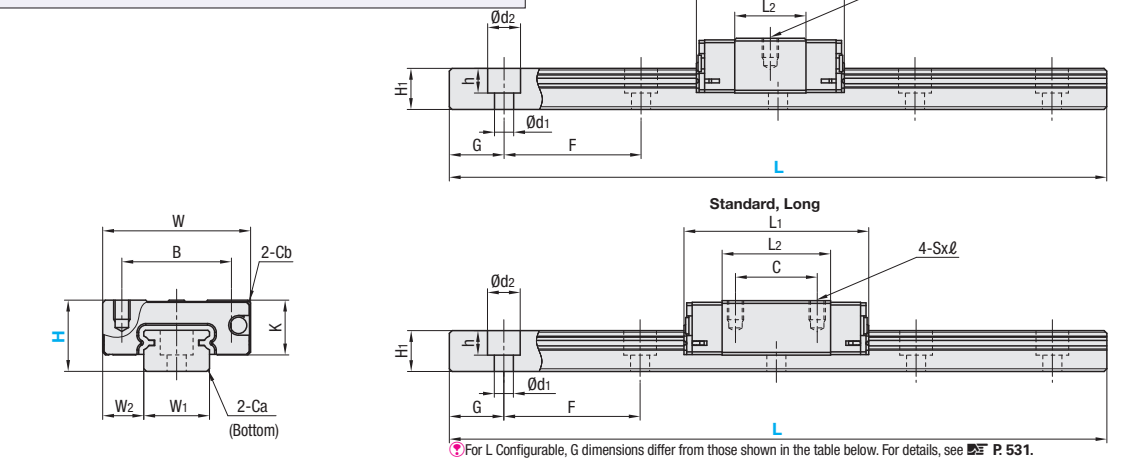
Industry Standard



 Material Hardness	Type			L Dimension	Number of Blocks
	Light Preload				
	High Grade				
	Short	Standard	Long		
Stainless Steel 56HRC~	SSEBST	SSEBT	SSELBT	Selectable	1
	SSE2BST	SSE2BT	SSEL2BT		2
	SSEBSLT	SSEBLT	SSELBLT	Configurable	1
	SSE2BSLT	SSE2BLT	SSEL2BLT		2

Heat Resistant Temperature: -20 ~ 150°C

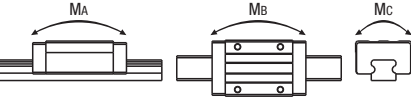
RoHS 10
Blocks and rails are not sold as separate items. This type has guaranteed radial clearances and accuracies as sets of blocks and rails.



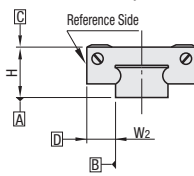
- **Precautions for Use**
 - Blocks are equipped with retainers (wire) to prevent balls from falling off. For how to handle the blocks, see P. 525.
 - Radial clearances and accuracies are not guaranteed if the blocks and rails are interchanged from the original set combinations.
 - Straight grooves are 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 heat resistant grease (Du Pont KRYTOX GPL225).
 - Stainless steel and fluoro-rubber are used for return caps and seals respectively.
 - 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.

Part Number		H	L	Block Type	Block Dimension							Guide Rail Dimension								
Type	W				L1	B	C	S×ℓ	L2	K	Cb	H1	W1	W2	Ca	Counterbored Hole d1×d2×h	F	G		
♥Dimensions in () are for 2-Block Type.			8	40~130 (70)	Short	17	19.6	-	-	M2x2.5	9.6	6.5	0.3	4.7	7	5	0.3	2.4x4.2x2.3	15	5
Short (1 block) SSEBST SSEBSLT	(2 blocks) SSE2BST SSE2BSLT	10	35~275 (95)	Standard	20	23.6	12	8	-	M3x3	13.6	7.8	0.3	5.5	9	5.5	0.3	3.5x6x3.5	20	7.5
			Long	32		13	11.9													
			Standard	30		10	19													
Standard (1 block) SSEBT SSEBLT	(2 blocks) SSE2BT SSE2BLT	13	55~275 (95)	Long	27	40	15	16	-	M3x3.5	29	10	0.5	7.5	12	7.5	0.5	3.5x6x4.5	25	10
			Short	27		-	13													
			Standard	33.9		15	19.9													
Long (1 block) SSELBT SSELBLT	(2 blocks) SSEL2BT SSEL2BLT	16	70~470 (120)	Long	32	45.8	20	20	-	M3x4	31.8	12	0.5	9.5	15	8.5	0.5	3.5x6x4.5	40	15
			Short	32.7		-	17.7													
			Standard	42.4		20	27.4													
			110~670 (150)	Long		58.3		25	-		43.3									

H	Block Type	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	Short	0.79	1.27	1.9	1.6	4.6	0.008	0.19
	Standard	0.9	1.5	4.1	4.1	5.2	0.01	
	Long	1.6	2.4	7.5	7.5	9	0.02	
10	Short	1.16	1.68	3.1	2.6	7.9	0.015	0.31
	Standard	1.5	2.5	5.1	5.1	10.2	0.02	
	Long	2.2	3.7	12.3	12.3	13	0.03	
13	Short	1.63	2.38	5.2	4.4	14.8	0.025	0.61
	Standard	2.2	3.3	8.8	9.5	16.1	0.04	
	Long	3.5	5.3	24.5	26.4	32.3	0.06	
16	Short	3.08	4.23	12.3	10.3	32.6	0.05	1.02
	Standard	3.6	5.4	21.6	23.4	39.6	0.06	
	Long	5.8	8.7	57.8	62.6	67.6	0.1	



■ **Preload and Accuracy Standards**



Specifications		Unit: μm
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		

H	L	Unit Price				
		Short	Standard	Long		
8	40	SSEBST	SSE2BST	SSEBT	SSE2BT	SSELBT
	55					
	70					
	85					
	100					
	115					
	130					
	35	-	-	-	-	-
	55	-	-	-	-	-
	75	-	-	-	-	-
10	95					
	115					
	135					
	155					
	175					
	195					
	215					
	235					
	255					
	275					
13	45	-	-	-	-	-
	70	-	-	-	-	-
	95	-	-	-	-	-
	120					
	145					
	170					
	195					
	220					
	245					
	270					
16	295					
	320					
	345					
	370					
	395					
	420					
	445					
	470					
	70	-	-	-	-	-
	110	-	-	-	-	-
16	150					
	190					
	230					
	270					
	310					
	350					
	390					
	430					
	470					
	510					
16	550					
	590					
	630					
	670					

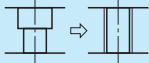
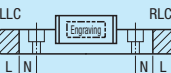
■ **L Dimension Configurable Type (1mm Increment)**

H	Unit Price				
	Short	Standard	Long		
8	SSEBSLT	SSE2BSLT	SSEBLT	SSE2BLT	SSELBLT
10					
13					
16					

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
SSEBT10 - 195

Alterations
Part Number - L - (MC, RLC, LLC, B3, B4)
SSEBT16 - 450 - MC

Alterations	Code	Spec.										
Tapped Hole 	MC	Changes the rail mounting holes from counterbored holes to tapped holes. <table><tr><td>H</td><td>MC</td></tr><tr><td>8</td><td>M3</td></tr><tr><td>10</td><td>M4</td></tr><tr><td>13</td><td></td></tr><tr><td>16</td><td>M5</td></tr></table>	H	MC	8	M3	10	M4	13		16	M5
H	MC											
8	M3											
10	M4											
13												
16	M5											
Rail End Cut 	Left End Cut LLC Right End Cut RLC	Cuts rail ends. Ordering Code LLC <table><tr><td>H</td><td>L Cut</td><td>N</td></tr><tr><td>10</td><td>2.5</td><td rowspan="3">5</td></tr><tr><td>13</td><td>5</td></tr><tr><td>16</td><td>10</td></tr></table> ⚡ Applicable to Selectable Type only. ⚡ Overall length will be shorter by cutting. ⚡ Not applicable to H8. ⚡ Not applicable to L35 of H10 and L45 of H13.	H	L Cut	N	10	2.5	5	13	5	16	10
H	L Cut	N										
10	2.5	5										
13	5											
16	10											
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: SSEBST10-95-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: SSELBT16-550-B4										

Additional Block Price				Selectable Shortest Rail Length for B3/B4			
H	Block	B3: Price Adder	B4: Price Adder	H	Block	B3 (3-block)	B4 (4-block)
8	Short			8	Short	85	100
	Standard				Standard	85	115
	Long	-	-		Long	-	-
10	Short			10	Short	95	115
	Standard				Standard	115	155
	Long				Long	155	195
13	Short			13	Short	120	145
	Standard				Standard	145	170
	Long				Long	170	220
16	Short			16	Short	150	190
	Standard				Standard	190	230
	Long				Long	230	270

■ **Options for Linear Guide**

Position Retaining Parts	Block / Rail Fixing Parts
	■ Rail Push Plates
	■ Linear Lock
	■ Linear Guide Lock Units
■ Stopper Bolts	