

Miniature Linear Guides - Wide Rails

Standard Blocks with Dowel Holes, Light Preload

= 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.

Similar Products Comparison Points | MISUMI original specifications with dowel holes. Requires less time for assembly and has better repeatability.

MISUMI Original

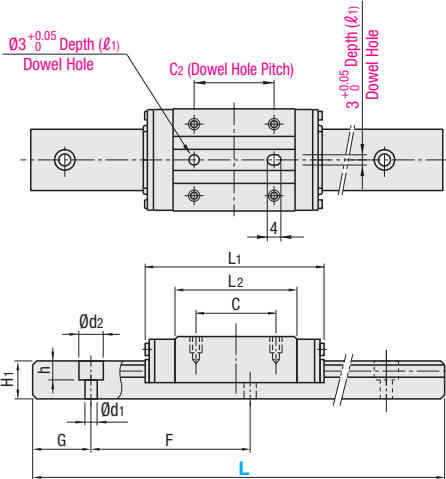


RoHS10

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

Material Hardness	Type Light Preload High Grade	L Dimension	Number of Blocks
Stainless Steel 56HRC~	SSEBWN	Selectable	1
	SSE2BWN		2
	SSEBWNL	Configurable	1
	SSE2BWNL		2
	SEBWN	Selectable	1
Carbon Steel 58HRC~	SE2BWN		2
	SEBWNL	Configurable	1
	SE2BWNL		2

Heat Resistant Temperature: -20 ~ 80°C



For L Configurable, G dimensions differ from those shown in the table below. For details, see 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.
- Others**

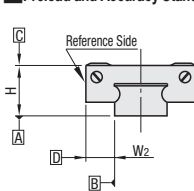
 - Filled with Lithium soap based grease (Mullemp Grease PS2 by Kyodo Yushi Co., Ltd.).
 - For operating life calculation, see P. 527.
 - For operating life calculations, use our free calculation software from http://download.misumi.jp/mol/fa_soft.html.

Part Number		L	Block Dimension								Dowel Hole Dimensions			Guide Rail Dimension							
Type	H		W	L ₁	B	C	Sxℓ	L ₂	K	Cb	N	C ₂	(ℓ ₁)	W ₁	W ₂	H ₁	Ca	Counterbored Hole d ₁ x d ₂ x h	F	G	
<div>⚠Dimensions in () are for 2-Block Type.</div> <div>Stainless Steel SSEBWN SSE2BWN SSEBWNL SSE2BWNL</div> <div>Carbon Steel SEBWN SE2BWN SEBWNL SE2BWNL</div>	9	50~290 (110)	25	31.1	18	12	M2.6x2.5	20.1	7	0.3	12.5	12	2.5	14	5.5	5.2	0.5	3.5x6x3.2	30	10	
	12	50~290 (110)	30	38	21	12	M2.6x3	27	9	0.3	15	12	2.5	18	6	7.5	0.5	3.5x6x4.5	30	10	
	14	70~470 (150)	40	44.3	28	15	M3x3.5	30.1	11	0.5	20	15	3.5	24	8	8	0.5	4.5x8x4.5	40	15	
	16	70~670 (190)	60	55	45	20	M4x4.5	40	13	0.5	30	20	4	42	9	9.5	0.5	4.5x8x4.5	40	15	

kgf=Nx0.101972

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
9	1.4	2.2	7.8	7.8	15.5	0.02	0.50
12	2.3	3.7	13.7	16.3	30.4	0.04	0.96
14	3.5	5.3	20.6	22.3	52.1	0.08	1.40
16	5.8	8.5	40.2	43.6	148	0.15	2.95

Preload and Accuracy Standards



Specifications		Unit: μm
Radial Clearance	-3~0	
Height H Tolerance	±20	
Pair Variation of Height H	15	
Width W ₂ Tolerance	±25	
Pair Variation of Width W ₂	20	
Running Parallelism of Plane C against Plane A	See P. 525	
Running Parallelism of Plane D against Plane A		

H	L	Unit Price			
		Stainless Steel		Carbon Steel	
9	50	SSEBWN	SSE2BWN	SEBWN	SE2BWN
	80				
	110				
	140				
	170				
	200				
	230				
	260				
	290				
	320				
12	50				
	80				
	110				
	140				
	170				
	200				
	230				
	260				
	290				
	320				
14	70				
	110				
	150				
	190				
	230				
	270				
	310				
	350				
	390				
	430				
16	470				
	510				
	550				
	590				
	630				
	670				

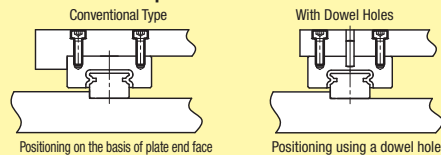
L Dimension Configurable Type (1mm Increment)

H	Unit Price			
	Stainless Steel		Carbon Steel	
9	SSEBWNL	SSE2BWNL	SEBWNL	SE2BWNL
12				
14				
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.



Installation Examples -



Part Number - L
SSEBWN12 - 200 (L Type Greased)
SSEBWN12L - 200 (L Type Greased)
SSEBWN12G - 200 (G Type Greased)
Alternative grease types available.
P531



Part Number - L - (MC, RLC, LLC, B3, B4)
SSE2BWNL16 - 450 - MC

Alterations	Code	Spec.
Tapped Hole	MC	Changes the rail mounting holes from counterbored holes to tapped holes. H MC 9 M4 12 M4 14 M5 16 M5
Rail End Cut	Left End Cut LLC Right End Cut RLC	Cuts rail ends. Ordering Code LLC H L Cut N 9 5 12 5 14 10 16 10 Rail is cut with the product ID facing out (datum on other side). Applicable to Selectable Type only. Overall length will be shorter by cutting. Not applicable to L dimension 70 or less.
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: SEBWN9-200-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: SEBWN14-420-B4

Additional Block Price

H	B3: Price Adder		B4: Price Adder	
	Stainless Steel	Carbon Steel	Stainless Steel	Carbon Steel
9				
12				
14				
16				

Selectable Shortest Rail Length for B3/B4

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

Options for Linear Guide

Position Retaining Parts	Block / Rail Fixing Parts
Stopper Bolts	Rail Push Plates P612
	Linear Lock P607
	Block Derailment Prevention Parts P613
	Linear Guide Lock Units P614