

Miniature Linear Guides - Wide Rails

Long Blocks, Light Preload

= For customers using industry standard products =

frame-surrounded products are compliant with the industry standard specifications (Stainless Steel, Light Preload, High Grade Type). Select the block from this spec.

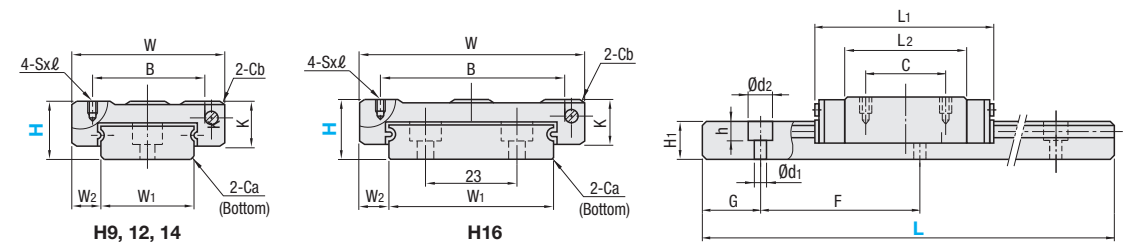
Features: Wide Rail, Long Block Type of industry standard specifications. Higher load ratings and allowable moments than standard blocks.

Industry Standard



RoHS 10

- This Type has the same fitting dimensions as the other company products, and thus, can be substituted for them.
- Blocks and rails are not sold as separate items. This Type has guaranteed radial clearances and accuracies as sets of blocks and rails.



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.

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.

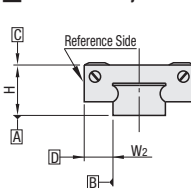
Part Number			H	L	Block Dimension								Guide Rail Dimension							
Type		W			L ₁	B	C	Sxℓ	L ₂	K	Cb	W ₁	W ₂	H ₁	Ca	Counterbored Hole d ₁ x d ₂ x h	F	G		
❖ Dimensions in () are for 2-Block Type.			9	80~290 (110)	25	43.5	19	19	M3x3	32.5	7	0.3	14	5.5	5.2	0.5	3.5x6x3.2	30	10	
Stainless Steel			12	80~290 (110)	30	51.6	23	24	M3x3	40.6	9	0.3	18	6	7.5	0.5	3.5x6x4.5	30	10	
Industry Standard Specifications																				
SEL2BW	SEL2BWV	SEL2BWZ																		
SEL2BWL	SEL2BWLW	SEL2BWLZ																		
Carbon Steel			14	110~470 (150)	40	61.6	28	28	M3x3.5	47.4	11	0.5	24	8	8	0.5	4.5x8x4.5	40	15	
SELBW		SELBWV	SELBWZ	16	110~670 (190)	60	74.9	45	35	M4x4.5	59.9	13	0.5	42	9	9.5	0.5	4.5x8x4.5	40	15
SEL2BW	SEL2BWV	SEL2BWZ																		
SELBWL	SELBWLW	SELBWLZ																		
SEL2BWL	SEL2BWLW	SEL2BWLZ																		

kgf~N×0.101972

Unit: μm

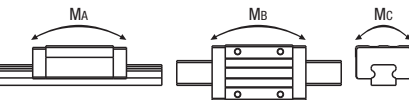
Basic Load Rating/Allowable Static Moment		Mass	
H	C (Dynamic) kN	Co (Static) kN	MA N·m
9	1.7	4.0	12.1
12	2.6	5.3	20.2
14	3.9	8.5	38.6
16	7.2	14.3	86.0

Preload and Accuracy Standards



Specifications	Light Preload, High Grade	Light Preload, Precision Grade	Slight Clearance, Standard Grade
Radial Clearance	-3~0	0~15	0~15
Height H Tolerance	±20	±10	±20
Pair Variation of Height H	15	7	40
Width W ₂ Tolerance	±25	±15	±25
Pair Variation of Width W ₂	20	10	40
Running Parallelism of Plane C against Plane A	See P. 525		
Running Parallelism of Plane D against Plane A			

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			
		SSELBW	SSEL2BW	SSELBWZ	SSEL2BWZ	SELBW	SEL2BW	SELBWZ	SEL2BWZ
9	80	-	-	-	-	-	-	-	-
	110	-	-	-	-	-	-	-	-
	140	-	-	-	-	-	-	-	-
	170	-	-	-	-	-	-	-	-
	200	-	-	-	-	-	-	-	-
	230	-	-	-	-	-	-	-	-
	260	-	-	-	-	-	-	-	-
	290	-	-	-	-	-	-	-	-
12	80	-	-	-	-	-	-	-	-
	110	-	-	-	-	-	-	-	-
	140	-	-	-	-	-	-	-	-
	170	-	-	-	-	-	-	-	-
	200	-	-	-	-	-	-	-	-
	230	-	-	-	-	-	-	-	-
	260	-	-	-	-	-	-	-	-
	290	-	-	-	-	-	-	-	-
14	110	-	-	-	-	-	-	-	-
	150	-	-	-	-	-	-	-	-
	190	-	-	-	-	-	-	-	-
	230	-	-	-	-	-	-	-	-
	270	-	-	-	-	-	-	-	-
	310	-	-	-	-	-	-	-	-
	350	-	-	-	-	-	-	-	-
	390	-	-	-	-	-	-	-	-
16	430	-	-	-	-	-	-	-	-
	470	-	-	-	-	-	-	-	-
	510	-	-	-	-	-	-	-	-
	550	-	-	-	-	-	-	-	-
	590	-	-	-	-	-	-	-	-
	630	-	-	-	-	-	-	-	-
	670	-	-	-	-	-	-	-	-

L Dimension Configurable Type (1mm Increment)

H	Unit Price			
	Stainless Steel		Carbon Steel	
	SSELBWL	SSEL2BWL	SELBWL	SEL2BWL
9	SSELBWLZ	SSEL2BWLZ	SELBWLZ	SEL2BWLZ
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.

Options for Linear Guide

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



Ordering Example

Part Number - L

- SSELBW12 - 200 (LTBC Plating)
- RSELBW12 - 200 (L Type Greased)
- SSELBW12L - 200 (G Type Greased)
- SSELBW12G - 200

LTBC Plating and various Grease types available as alternative.

P531



Alterations

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

SSEL2BWL16 - 450 - 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	
Parallel Use of 2 Rails	WC	Pair variation of Height H between 2 rails is set within 15μm. Rails are shipped in pairs. Specify the actual rail quantity (even number) to order, not "pairs". Applicable to High Grade Type only. Not applicable to low temperature chrome plated products.
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: SELBW12-260-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: SSELBW9-290-B4

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

H	B3: Price Adder	B4: Price Adder	H	B3 (3-block)	B4 (4-block)
9	Stainless Steel	Carbon Steel	9	170	200
12			12	200	260
14			14	230	310
16			16	270	350

Unit price for Precision Type is the above price x1.2. (Round to the nearest Ten JPY)