

Miniature Linear Guides (Long Blocks with Dowel Holes)

Light Preload

Similar Products Comparison Points

The most basic type among all the industry standard specifications. Select from Light Preload Types with superior precision and rigidity.

Miniature Linear Guides (Long Blocks with Dowel Holes) – Light Preload



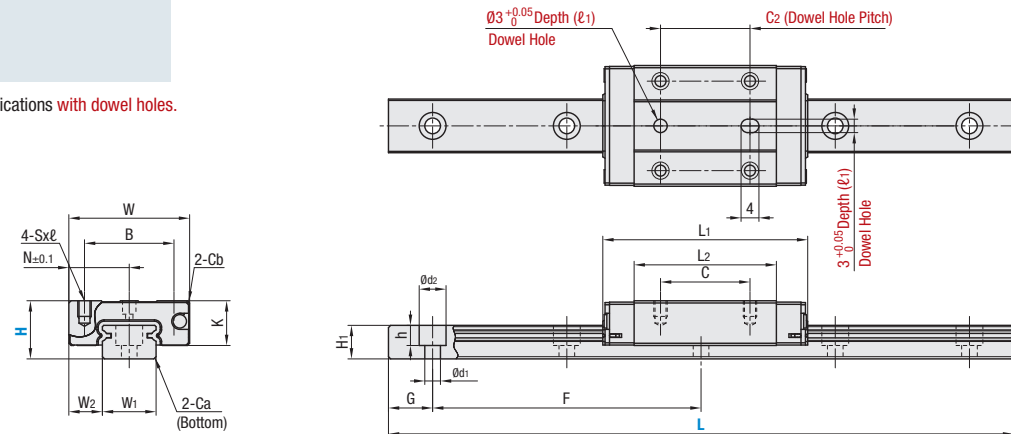
RoHS 10

Features: MISUMI original specifications with dowel holes.

Material Hardness	Type	MX (Lubrication Unit)	L Dimension	Number of Blocks
	Light Preload			
Stainless Steel 56 HRC min.	SSELBN	Blank: None	Selectable	1
	SSEL2BN			2
	SSELBNL	-MX: Provided	Configurable	1
	SSEL2BNL			2

Heat Resistant Temperature: -20~80°C

ⓘ For L Configurable, G dimensions differ from those shown in the table below. For details, P.608.



Precautions for Use

- ⓘ Blocks are equipped with retainers (wire) to prevent balls from falling out. For proper block handling, refer to P.602.
- ⓘ 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.

Accessories

- H8 comes with cap screws (M2 x 6).

Others

- Filled with lithium soap based grease (Multitemp Grease PS2 by Kyodo Yushi Co. Ltd.)

Part Number	Type	MX	H	L	Block Dimensions							Dowel Hole Dim.			Guide Rail Dimensions									
					W	L ₁	B	C	S x ℓ	L ₂	K	Cb	N	C ₂	(ℓ ₁)	W ₁	W ₂	H ₁	Ca	Counterbored Holes		F	G	
SSELBN SSEL2BN SSELBNL SSEL2BNL	Blank: None -MX: Provided	—	8	40-130 (100)	17	32	12	13	M2 x 2.5	22	6.5	0.3	8.5	13	2	7	5	4.7	0.3	2.4 x 4.2 x 2.3	15	5		
			10	55-275 (115)	20	40	15	16	M3 x 3	29	7.8	0.3	10	16	2.5	9	5.5	5.5	0.3	3.5 x 6 x 3.5	20	7.5		
			13	70-470 (120)	27	45.8	20	20	M3 x 3.5	31.8	10	0.5	13.5	20	3	12	7.5	7.5	0.5	3.5 x 6 x 4.5	25	10		
			16	110-670 (150)	32	58.3	25	25	M3 x 4	43.3	12	0.5	16	25	4	15	8.5	9.5	0.5	3.5 x 6 x 4.5	40	15		
			20	160-700 (220)	40	67.7	30	30	M4 x 6	52.3	15	0.5	20	30	4	20	10	11	0.5	6 x 9.5 x 5.5	60	20		

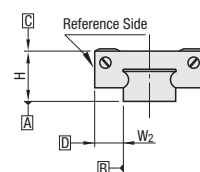
ⓘ L Dimension: Dimensions in () are for the minimum rail length of the 2-Block Type

kgf=Nx0.101972

H	Basic Load Rating		Allowable Static Moment			Mass	
	C (Dynamic) kN	Co (Static) kN	M _A N·m	M _B N·m	M _C N·m	Blocks kg	Guide Rails 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

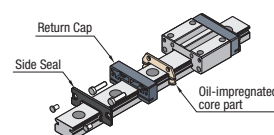


Preload & Accuracy Standards



Specifications	Light Preload High Grade
Radial Clearance	-3~0
Height H Tolerance	±20
Height H Pair Variation	15
Width W ₂ Tolerance	±25
Width W ₂ Pair Variation	20
Running Parallelism of surf. C against surf. A	Refer to P.602
Running Parallelism of surf. D against surf. B	

Lubrication Unit MX



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Light Preload, continued

Part Number Example

Part Number - L

SSELBN10 - 275 L Type Greased

SSELBN10L - 75 L Type Greased

SSELBN10G - 75 G Type Greased

Alternative grease types available.

Part Number Alterations

Part Number - L - (MC / RLC / LLC)

SSEL2BN16 - 430 - MC - RLC

Alterations	Code	Spec.												
Tapped Holes	MC	Changes rail mounting holes from counterbored holes to tapped holes. <table border="1"> <tr><th>H</th><th>MC</th></tr> <tr><td>8</td><td>M3</td></tr> <tr><td>10</td><td>M4</td></tr> <tr><td>13</td><td>M4</td></tr> <tr><td>16</td><td>M5</td></tr> <tr><td>20</td><td>M6</td></tr> </table>	H	MC	8	M3	10	M4	13	M4	16	M5	20	M6
H	MC													
8	M3													
10	M4													
13	M4													
16	M5													
20	M6													
Rail Ends Cut	Left End Cut LLC Right End Cut RLC	Rail ends cut. Ordering Code: LLC <table border="1"> <tr><th>H</th><th>L Cut</th><th>N</th></tr> <tr><td>10</td><td>2.5</td><td rowspan="4">5</td></tr> <tr><td>13</td><td>5</td></tr> <tr><td>16</td><td>10</td></tr> <tr><td>20</td><td>15</td></tr> </table> <ul style="list-style-type: none"> ⓘ Applicable to Selectable Type only. ⓘ Cutting will shorten overall length. ⓘ Not applicable to H8, 20. ⓘ Not applicable to L35 of H10 and L45 of H13. 	H	L Cut	N	10	2.5	5	13	5	16	10	20	15
H	L Cut	N												
10	2.5	5												
13	5													
16	10													
20	15													
3-Block Specifications	B3	Adds 2-blocks to the 1-block product. ⓘ There are restrictions for the L dimension length. See "Selectable Shortest Rail Length" for details. Selection Example: SSELBN10-195-B3												
4-Block Specifications	B4	Adds 3-blocks to the 1-block product. ⓘ There are restrictions for the L dimension length. See "Selectable Shortest Rail Length" for details. Selection Example: SSELBN16-510-B4												

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

Positioning Retaining Parts	Block / Rail Fixing Parts
	Rail Push Plates
Rail Height Adjusting Blocks 	Linear Lock
Stopper Bolts 	Linear Guide Lock Units

Application Example

Installation Example

Conventional Type

With Dowel Holes

Positioning on the basis of plate end face

Positioning using a dowel hole