Miniature Linear Guides

Standard Blocks with Dowel Holes, Light Preload / Slight Clearance

Add. Spec. Printed in Red

= For customers selecting MISUMI original specifications =
frame-surrounded products are compliant with the standard specifications (Stainless Steel, Light Preload, High Grade Type).

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

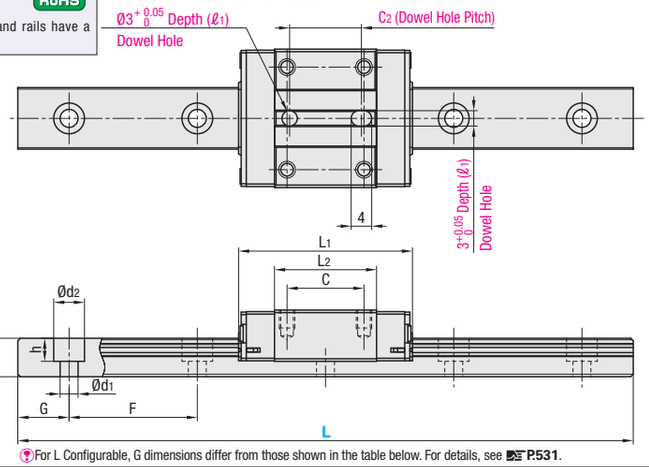
MISUMI Original

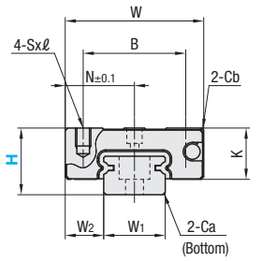
RoHS

Blocks and rails are not sold as separate items. Sets of blocks and rails have a guaranteed radial clearance and accuracy.

Material / Hardness		Type: Light Preload / High Grade	Type: Slight Clearance / Standard Grade	L Dimension	Number of Blocks
Standard Materials	Stainless Steel 56HRC~	SSEBN	SSEBNZ	Selectable	1
		SSE2BN	SSE2BNZ		2
		SSEBNL	SSEBNLZ	Configurable	1
		SSE2BNL	SSE2BNLZ		2
	Carbon Steel 58HRC~	SEBN	SEBNZ	Selectable	1
		SE2BN	SE2BNZ		2
		SEBNL	SEBNLZ	Configurable	1
		SE2BNL	SE2BNLZ		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 out. For proper block handling, 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. When using, be sure to match the datum lines..
- Rails cannot be connected end to end.
- The accuracy of Linear Guides is guaranteed after mounting the rail (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.

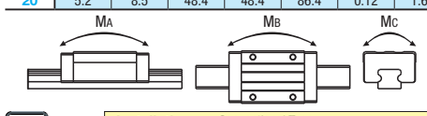
Accessories
- H8 comes with cap screws. (M2x6).

Others
- Filled with Lithium soap based grease (Multemp Grease PS2 by Kyodo Yushi Co., Ltd.).
- For operating life calculations please see P. 527, or by using our free software at, http://www.misumiusa.com/lg-bs_software/

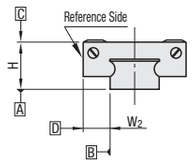
Part Number: Type	H	L	Block Dimension: W	L1	B	C	Sxℓ	L2	K	Cb	Dowel Hole Dimensions: N	C2	(ℓ1)	Guide Rail Dimension: W1	W2	H1	Ca	Counterbored Hole d1xd2xh	F	G
Dimensions in ( ) are for 2-Block Type. Stainless Steel; Standard Specifications: SSEBN, SSE2BN, SSEBNL, SSE2BNL; SSEBNZ, SSE2BNZ, SSEBNLZ, SSE2BNLZ	8	40~130 (70)	17	23.6	12	8	M2x2.5	13.6	6.5	0.3	8.5	8	2	7	5	4.7	0.3	2.4x4.2x2.3	15	5
	10	35~275 (95)	20	30	15	10	M3x3	19	7.8	0.3	10	10	2.5	9	5.5	5.5	0.3	3.5x6x3.5	20	7.5
	13	45~470 (120)	27	33.9	20	15	M3x3.5	19.9	10	0.5	13.5	14	3	12	7.5	7.5	0.5	3.5x6x4.5	25	10
Carbon Steel; SEBN, SE2BN, SEBNL, SE2BNL; SEBNZ, SE2BNZ, SEBNLZ, SE2BNLZ	16	70~670 (150)	32	42.4	25	20	M3x4	27.4	12	0.5	16	20	4	15	8.5	9.5	0.5	3.5x6x4.5	40	15
	20	100~700 (160)	40	50	30	25	M4x6	34.6	15	0.5	20	25	4	20	10	11	0.5	6x9.5x5.5	60	20

kgf=Nx0.101972

H	Basic Load Rating: C (Dynamic) kN	Co (Static) kN	Allowable Static Moment: MA N·m	MB N·m	MC N·m	Mass: Block kg	Guide Rail kg/m
8	0.9	1.5	4.1	4.1	5.2	0.01	0.19
10	1.5	2.5	5.1	5.1	10.2	0.02	0.31
13	2.2	3.3	8.8	9.5	16.1	0.04	0.61
16	3.6	5.4	21.6	23.4	39.6	0.06	1.02
20	5.2	8.5	48.4	48.4	86.4	0.12	1.65



Preload and Accuracy Standards



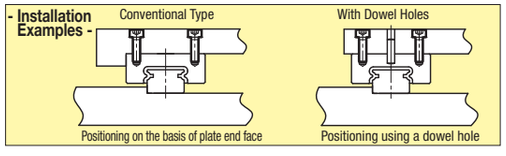
Unit: μm

Specifications	Light Preload, High Grade	Slight Clearance, Standard Grade
Radial Clearance	-3~0	0~+15
Height H Tolerance	±20	±20
Pair Variation of Height H	15	40
Width W2 Tolerance	±25	±25
Pair Variation of Width W2	20	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.

Example

- Installation Examples -



Price — Configure Online

Ordering Example

Part Number	-	L
SSEBN10	-	275
SSE2BNL10L	-	100 (L Type Greased)
SSE2BNL10G	-	100 (G Type Greased)

Alternative grease types available.
For Days to Ship, Price and Performance, P.531

Days to Ship — Configure Online

H	L	Unit Price: Stainless Steel High Grade SSEBN	SSE2BN	Stainless Steel Standard Grade SSEBNZ	SSE2BNZ	Carbon Steel High Grade SEBN	SE2BN	Carbon Steel Standard Grade SEBNZ	SE2BNZ
8	40		-		-		-		-
	55		-		-		-		-
	70								
	85								
	100								
	115								
	130								
10	35		-		-		-		-
	55		-		-		-		-
	75		-		-		-		-
	95								
	115								
	135								
	155								
	175								
	195								
	215								
	235								
	255								
	275								
13	45		-		-		-		-
	70		-		-		-		-
	95		-		-		-		-
	120								
	145								
	170								
	195								
	220								
	245								
	270								
	295								
	320								
	345								
	370								
	395								
	420								
	445								
	470								
16	70		-		-		-		-
	110		-		-		-		-
	150								
	190								
	230								
	270								
	310								
	350								
	390								
	430								
	470								
	510								
	550								
	590								
	630								
	670								
20	100		-		-		-		-
	160								
	220								
	280								
	340								
	400								
	460								
	520								
	580								
	640								
	700								

L Dimension Configurable Type (1mm Increment)

H	Unit Price: Stainless Steel High Grade SSEBNL	SSE2BNL	Stainless Steel Standard Grade SSEBNLZ	SSE2BNLZ	Carbon Steel High Grade SEBNL	SE2BNL	Carbon Steel Standard Grade SEBNLZ	SE2BNLZ
8								
10								
13								
16								
20								

For calculation of L Dimension Configurable Type pricing, please use website.
http://www.misumiusa.com/lg-bs_software/

Alterations — Part Number - L - (MC, RLC, LLC, B3, B4)
SSEBN16 - 430 - MC
Configure Online

Alterations	Code	Spec.
Tapped Hole	MC	Changes the rail mounting holes from counterbored holes to tapped holes. H: 8, 10, 13, 16, 20 / MC: M3, M4, M4, M5, M6
Rail End Cut: Rail is cut with the product ID facing out (datum on other side).	Left End Cut LLC; Right End Cut RLC	Rail ends cut. Ordering Code LLC. H: 10, 13, 16 / L Cut: 2.5, 5, 10 / N: 5. 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.
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: SSEBNL10-200-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: SEBNL16-600-B4

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

H	B3: Price Adder Stainless Steel	Carbon Steel	B4: Price Adder Stainless Steel	Carbon Steel
8				
10				
13				
16				
20				

Selectable Shortest Rail Length for B3/B4

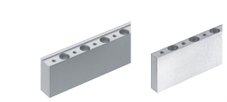
H	B3 (3-block)	B4 (4-block)
8	85	115
10	115	155
13	145	170
16	190	230
20	220	280

Options for Linear Guide

Position Retaining Parts

P.607

Rail Height Adjusting Blocks



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Block Derailment Prevention Parts

Stopper Bolts

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Block / Rail Fixing Parts

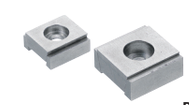
Rail Push Plates

P.612

Linear Lock

P.613

Linear Guide Lock Units



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