Miniature Linear Guides

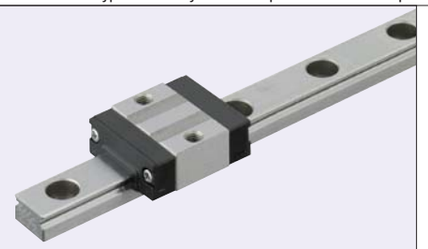
-Short Blocks · Light Preload, Interchangeable-Slight Clearance-

Linear Guide Related Products			
Position-keeping Parts	Rails Height Adjusting Blocks	Blocks Fall-off Prevention Parts Dust Resistant Parts	Blocks / Rails Fixing Parts
P.581~ P.588			

CAD Data

Features: Short block type of industry-standard spec. 20% more compact than standard blocks.

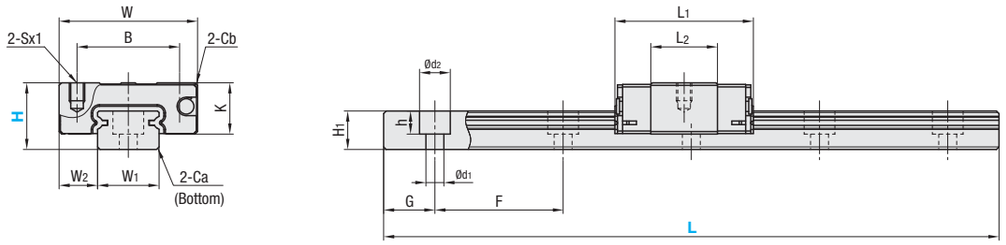
RoHS



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

Material / Hardness	Type: Light Preload / High Grade Sets	Interchangeable-Slight Clearance / Standard Grade Sets	Blocks	L Dimension	Blocks Quantity
JIS STKM (Alloy Steel including JIS SCM) 58HRC~	SEBS	SEBSZ	SZSB	Selectable	1
	SE2BS	SE2BSZ			2
	SEBSL	SEBSLZ		Specified	1
	SE2BSL	SE2BSLZ			2
Stainless Steel (1.4125/ X105CrMo17 Material) 56HRC~	SSEBS	SSEBSZ	SSZSB	Selectable	1
	SSE2BS	SSE2BSZ			2
	SSEBSL	SSEBSLZ		Specified	1
	SSE2BSL	SSE2BSLZ			2

Heat Resistant Temperature: -20~80°C



Order Example

Part Number	-	L
SSE2BS10	-	275
SSE2BS10L	-	175 (L Type Greased)
SSE2BS10G	-	175 (G Type Greased)

Alternative grease types available.
For Days to Ship, Price and Performance, refer to P.507

Days to Ship

8 Days — Express A — 8,00 EUR / piece — P.88

6 Days

A Express Charge of 21,60 EUR for 3 or more identical pieces.

Price

Volume Discount (Round down to one Cent.) P.87

Quantity	1~6	7 or 8	9 or 10	11~15
Discount Rate	€ Unit Price	5%	10%	18%

Alterations

Part Number - L - (MC · RLC · LLC)
SSE2BSL16 - 450 - MC
MC only 10 Days

Alterations	Code	Spec.	Price Adder
Female Thread Holes	MC	Changes the rail mounting hole from counterbored holes to tapped holes. Express Serviceis not available. (H / MC: 8 / M3; 10, 13 / M4; 16 / M5)	Free of charge
Rail Ends Cut (LLC, RLC, Engraving, L, N) — Rail is cut with the product ID facing out (datum on other side).	Left End Cut LLC	Cuts rail ends. Ordering Code LLC (H / L Cut / N: 10 / 2.5; 13 / 5; 16 / 10; N = 5). Applicable to Selectable Type only. Overall length will be shorter by cutting. Not applicable to H8. Not applicable to H10, H35 and H13, L45.	5,00
	Right End Cut RLC		5,00

H	Selectable L	€ Unit Price: 1 Block High Grade SEBS	1 Block High Grade SSEBS	1 Block Standard Grade SEBSZ	1 Block Standard Grade SSEBSZ	2 Blocks High Grade SE2BS	2 Blocks High Grade SSE2BS	2 Blocks Standard Grade SE2BSZ	2 Blocks Standard Grade SSE2BSZ
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								

H	L Specified (1mm Increment)	€ Unit Price: 1 Block High Grade SEBSL	1 Block High Grade SSEBSL	1 Block Standard Grade SEBSLZ	1 Block Standard Grade SSEBSLZ	2 Blocks High Grade SE2BSL	2 Blocks High Grade SSE2BSL	2 Blocks Standard Grade SE2BSLZ	2 Blocks Standard Grade SSE2BSLZ
8	41~54								
	56~69								
	71~84								
	86~99								
	101~114								
	116~129								
10	36~54								
	56~74								
	76~94								
	96~114								
	116~134								
	136~154								
	156~174								
	176~194								
	196~214								
	216~234								
	236~254								
	256~274								
13	46~69								
	71~94								
	96~119								
	121~144								
	146~169								
	171~194								
	196~219								
	221~244								
	246~269								
	271~294								
	296~319								
	321~344								
	346~369								
	371~394								
	396~419								
	421~444								
	446~469								
16	71~109								
	111~149								
	151~189								
	191~229								
	231~269								
	271~309								
	311~349								
	351~389								
	391~429								
	431~469								
	471~509								
	511~549								
	551~589								
	591~629								
	631~669								

H	Block Price (1pc) € Unit Price SZSB	SSZSB
8		
10		
13		
16		

For rail unit price for Interchangeable-Slight Clearance Type, see P.516

Precautions for Use

- Blocks are equipped with retainers (wire) to prevent balls from falling out. Refer to P.501
- Radial clearances and accuracies are not guaranteed if the blocks and rails in the Light Preload Type are interchanged from the original set combinations.
- Blocks and rails can be used interchangeably with Interchangeable-Slight Clearance Type.
- Straight grooves are provided on datum planes. Be sure to match the datum lines when using.
- Rails cannot be connected to be extended.
- Running parallelism is the value measured after the rail is mounted.

Accessories

- H8 comes with cap screws (M2x6).

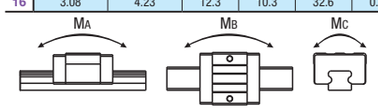
Others

- For G dimensions of L Dimension Configurable Type, refer to P.507
- Lithium soap based grease (Multemp Grease PS2 by Kyodo Yushi Co., Ltd.) is filled.

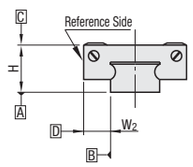
Part Number: Type	H	Block Dimensions: W ±0.05	L1	B	Sxℓ	L2	K	Cb	Guide Rail Dimensions: W1 ±0.005	W2	H1	Ca	Counterbored Holes d1xd2xh	F	G
JIS STKM (1 Block) SEBS, SEBSZ, SEBSL, SEBSLZ; (2 Blocks) SE2BS, SE2BSZ, SE2BSL, SE2BSLZ; Stainless Steel (1 Block) SSEBS, SSEBSZ, SSEBSL, SSEBSLZ; (2 Blocks) SSE2BS, SSE2BSZ, SSE2BSL, SSE2BSLZ; Blocks SZSB, SSZSB	8	17	19.6	12	M2x2.5	9.6	6.5	0.3	7	5	4.7	0.3	2.4x4.2x2.3	15	5
	10	20	22.9	15	M3x3	11.9	7.8	0.3	9	5.5	5.5	0.3	3.5x6x3.5	20	7.5
	13	27	27	20	M3x3.5	13	10	0.5	12	7.5	7.5	0.5	3.5x6x4.5	25	10
	16	32	32.7	25	M3x4	17.7	12	0.5	15	8.5	9.5	0.5	3.5x6x4.5	40	15

kgf=Nx0.101972

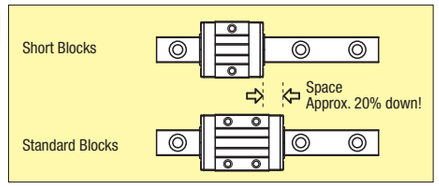
H	Basic Load Rating C (Dynamic) kN	Co (Static) kN	Allowable Static Moment MA N·m	MB N·m	MC N·m	Mass Blocks kg	Guide Rails kg/m
8	0.79	1.27	1.9	1.6	4.6	0.008	0.19
10	1.16	1.68	3.1	2.6	7.9	0.015	0.31
13	1.63	2.38	5.2	4.4	14.8	0.025	0.61
16	3.08	4.23	12.3	10.3	32.6	0.05	1.02



Preload and Accuracy Standards



Radial Clearance (μm)	
Light Preload	-3~0
Interchangeable-Slight Clearance	0~15

Dimension Precision (μm)	High Grade	Standard Grade
Height H Tolerance	±20	±20
Height H Pair Variation	15	40
Width W2 Tolerance	±25	±25
Width W2 Pair Variation	20	40
Running Parallelism of surf. C against surf. A	Refer to P.501	
Running Parallelism of surf. D against surf. B		

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