Miniature Linear Guides

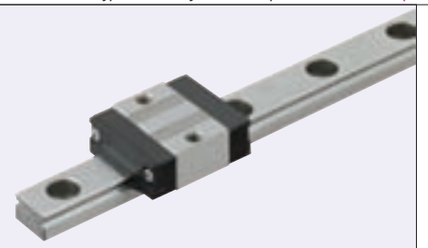
-Short Blocks / Light Preload, Interchangeable-Slight Clearance-

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 Folder Name: 07_Linear_Guides

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

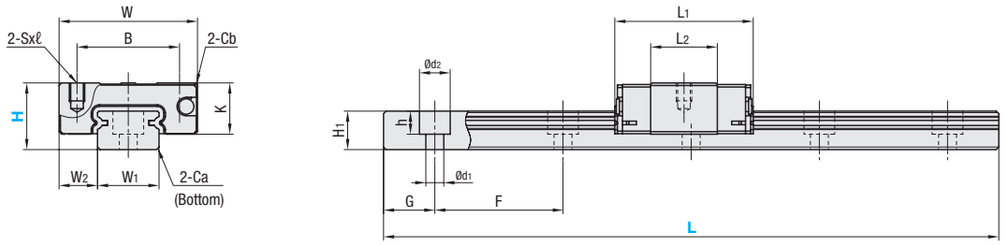
RoHS



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
STKM (Alloy Steel including SCM) 58HRC~	SEBS	SEBSZ	SZSB	Selectable	1
	SE2BS	SE2BSZ			2
	SEBSL	SEBSLZ		Specified	1
	SE2BSL	SE2BSLZ			2
Stainless Steel (SUS440C Equivalent Material) 56HRC~	SSEBS	SSEBSZ	SSZSB	Selectable	1
	SSE2BS	SSE2BSZ			2
	SSEBSL	SSEBSLZ		Specified	1
	SSE2BSL	SSE2BSLZ			2

Heat Resistant Temperature: -20~80°C



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).

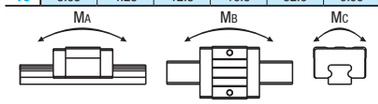
Others

- 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.
- For life calculations, use our free calculation software from http://download.misumi.jp/mol/fa_soft.html(in Japanese only). refer to P.503.

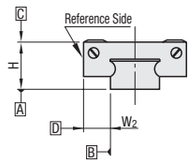
Part Number: Type				H	Block Dimensions: W ±0.05	L1	B	Sxℓ	L2	K	Cb	Guide Rail Dimensions: W1 ±0.005	W2	H1	Ca	Counterbored Holes d1xd2xh	F	G
STKM (1 Block)	(2 Blocks)	Stainless Steel (1 Block)	(2 Blocks)															
SEBS	SE2BS	SSEBS	SSE2BS	8	17	19.6	12	M2x2.5	9.6	6.5	0.3	7	5	4.7	0.3	2.4x4.2x2.3	15	5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



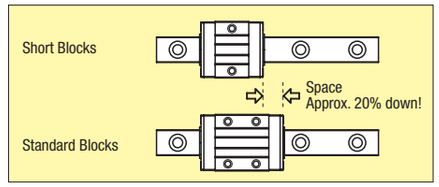
Preload and Accuracy Standards



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		

ex



Order Example

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

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

Delivery

7 Days — Express A 370 Baht / piece — P.88

A flat charge of 990 Baht for 3 or more identical pieces.

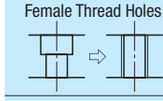
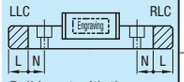
Price

Volume Discount Rate (Round up to the Baht.) 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 9 Days

Alterations	Code	Spec.	Price Adder
Female Thread Holes 	MC	Changes the rail mounting hole from counterbored holes to tapped holes. Express Service is not available. (H / MC: 8 / M3; 10, 13 / M4; 16 / M5)	Free of charge
Rail Ends Cut  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 / 5)	160
	Right End Cut RLC	Applicable to Selectable Type only. Overall length will be shorter by cutting. Not applicable to H8. Not applicable to H10, H35 and H13, L45.	160

H	Selectable L	Unit Price: 1 Block, High Grade, SEBS	SSEBS	1 Block, Standard Grade, SEBSZ	SSEBSZ	2 Blocks, High Grade, SE2BS	SSE2BS	2 Blocks, Standard Grade, SE2BSZ	SSE2BSZ
8	40	667	801	594	715	-	-	-	-
	55	712	859	635	763	1,299	1,567	1,155	1,391
	70	757	913	674	811	1,299	1,567	1,155	1,391
	85	804	973	718	865	1,347	1,621	1,197	1,442
	100	852	1,028	760	916	1,395	1,678	1,238	1,493
	115	900	1,085	801	964	1,439	1,736	1,280	1,544
	130	945	1,139	843	1,015	1,487	1,793	1,321	1,592
10	35	824	993	734	881	-	-	-	-
	55	824	993	734	881	-	-	-	-
	75	871	1,047	776	929	1,551	1,867	1,388	1,666
	95	919	1,107	820	986	1,551	1,867	1,388	1,666
	115	983	1,187	878	1,053	1,611	1,943	1,446	1,733
	135	1,040	1,254	929	1,114	1,672	2,013	1,497	1,793
	155	1,101	1,328	980	1,181	1,729	2,087	1,548	1,857
	175	1,174	1,414	1,044	1,257	1,803	2,173	1,615	1,937
	195	1,248	1,500	1,111	1,337	1,879	2,262	1,682	2,096
	215	1,321	1,573	1,178	1,417	1,953	2,323	1,749	2,122
	235	1,404	1,672	1,251	1,509	2,036	2,425	1,819	2,189
	255	1,493	1,774	1,328	1,599	2,122	2,527	1,892	2,278
	275	1,580	1,879	1,404	1,694	2,211	2,629	1,972	2,374
13	45	878	1,060	830	996	-	-	-	-
	70	878	1,060	830	996	-	-	-	-
	95	942	1,133	884	1,063	1,647	1,985	1,548	1,867
	120	999	1,203	938	1,130	1,647	1,985	1,548	1,867
	145	1,063	1,280	993	1,200	1,707	2,058	1,608	1,937
	170	1,120	1,353	1,053	1,270	1,768	2,128	1,662	2,007
	195	1,187	1,426	1,107	1,340	1,835	2,211	1,723	2,077
	220	1,251	1,506	1,171	1,414	1,899	2,288	1,781	2,151
	245	1,318	1,589	1,235	1,493	1,969	2,371	1,844	2,227
	270	1,395	1,685	1,305	1,580	2,042	2,460	1,918	2,313
	295	1,474	1,777	1,379	1,666	2,119	2,556	1,988	2,501
	320	1,564	1,857	1,462	1,768	2,211	2,629	2,071	2,527
	345	1,643	1,956	1,538	1,863	2,294	2,728	2,151	2,594
	370	1,768	2,103	1,653	1,997	2,415	2,868	2,262	2,734
	395	1,863	2,214	1,745	2,109	2,511	2,983	2,352	2,840
	420	1,975	2,348	1,851	2,233	2,623	3,120	2,460	2,970
	445	2,084	2,476	1,953	2,358	2,734	3,251	2,562	3,092
	470	2,179	2,591	2,033	2,466	2,830	3,363	2,645	3,200
16	70	1,066	1,286	1,015	1,225	-	-	-	-
	110	1,066	1,286	1,015	1,225	1,854	2,233	1,768	2,135
	150	1,143	1,375	1,088	1,315	1,854	2,233	1,768	2,135
	190	1,219	1,471	1,162	1,404	1,927	2,323	1,841	2,224
	230	1,308	1,580	1,245	1,506	2,017	2,431	1,927	2,326
	270	1,430	1,723	1,363	1,647	2,141	2,578	2,042	2,466
	310	1,580	1,902	1,500	1,816	2,288	2,753	2,176	2,635
	350	1,694	2,039	1,611	1,950	2,406	2,897	2,294	2,769
	390	1,790	2,157	1,707	2,061	2,498	3,012	2,387	2,881
	430	1,908	2,272	1,822	2,202	2,623	3,117	2,501	3,018
	470	2,055	2,444	1,959	2,364	2,766	3,289	2,635	3,187
	510	2,189	2,604	2,087	2,517	2,897	3,446	2,766	3,340
	550	2,329	2,773	2,224	2,683	3,041	3,615	2,900	3,503
	590	2,524	2,999	2,399	2,900	3,235	3,844	3,082	3,720
	630	2,699	3,213	2,572	3,108	3,414	4,058	3,254	3,927
	670	2,884	3,430	2,741	3,318	3,592	4,272	3,420	4,138

H	L Specified (1mm Increment)	Unit Price: 1 Block, High Grade, SEBSL	SSEBSL	1 Block, Standard Grade, SEBSLZ	SSEBSLZ	2 Blocks, High Grade, SE2BSL	SSE2BSL	2 Blocks, Standard Grade, SE2BSLZ	SSE2BSLZ
8	41~54	935	1,114	859	1,018	-	-	-	-
	56~69	980	1,168	897	1,066	1,522	1,822	1,379	1,647
	71~84	1,028	1,229	942	1,120	1,570	1,876	1,420	1,698
	86~99	1,076	1,283	983	1,171	1,618	1,934	1,462	1,749
	101~114	1,123	1,340	1,024	1,219	1,662	1,991	1,503	1,800
	116~129	1,168	1,395	1,066	1,270	1,710	2,048	1,544	1,848
10	36~54	1,127	1,334	1,031	1,216	-	-	-	-
	56~74	1,127	1,334	1,031	1,216	-	-	-	-
	76~94	1,174	1,395	1,076	1,273	1,806	2,154	1,643	1,953
	96~114	1,238	1,474	1,133	1,340	1,867	2,230	1,701	2,020
	116~134	1,296	1,541	1,184	1,401	1,927	2,300	1,752	2,080
	136~154	1,356	1,615	1,235	1,468	1,985	2,374	1,803	2,144
	156~174	1,430	1,701	1,299	1,544	2,058	2,460	1,870	2,224
	176~194	1,503	1,787	1,366	1,624	2,135	2,549	1,937	2,383
	196~214	1,576	1,860	1,433	1,704	2,208	2,610	2,004	2,409
	216~234	1,659	1,959	1,506	1,796	2,291	2,712	2,074	2,476
	236~254	1,749	2,061	1,583	1,886	2,377	2,814	2,147	2,565
	256~274	1,835	2,167	1,659	1,981	2,466	2,916	2,227	2,661
13	46~69	1,229	1,452	1,171	1,382	-	-	-	-
	71~94	1,229	1,452	1,171	1,382	-	-	-	-
	96~119	1,286	1,522	1,225	1,449	2,058	2,377	1,895	2,256
	121~144	1,350	1,599	1,280	1,519	2,058	2,377	1,895	2,256
	146~169	1,407	1,672	1,340	1,589	2,119	2,447	1,950	2,326
	171~194	1,474	1,745	1,395	1,659	2,186	2,530	2,010	2,396
	196~219	1,538	1,825	1,458	1,733	2,249	2,607	2,068	2,470
	221~244	1,605	1,908	1,522	1,812	2,320	2,690	2,131	2,546
	246~269	1,682	2,004	1,592	1,899	2,393	2,779	2,205	2,632
	271~294	1,761	2,096	1,666	1,985	2,470	2,875	2,275	2,820
	296~319	1,851	2,176	1,749	2,087	2,562	2,948	2,358	2,846
	321~344	1,930	2,275	1,825	2,182	2,645	3,047	2,438	2,913
	346~369	2,055	2,422	1,940	2,316	2,766	3,187	2,549	3,053
	371~394	2,151	2,533	2,033	2,428	2,862	3,302	2,639	3,159
	396~419	2,262	2,667	2,138	2,552	2,974	3,439	2,747	3,289
	421~444	2,371	2,795	2,240	2,677	3,085	3,570	2,849	3,411
	446~469	2,466	2,910	2,320	2,785	3,181	3,682	2,932	3,519
16	71~109	1,462	1,726	1,407	1,666	-	-	-	-
	111~149	1,462	1,726	1,407	1,666	2,246	2,674	2,160	2,575
	151~189	1,538	1,822	1,481	1,755	2,246	2,674	2,160	2,575
	191~229	1,627	1,930	1,564	1,857	2,336	2,782	2,246	2,677
	231~269	1,749	2,074	1,682	1,997	2,460	2,929	2,361	2,817
	271~309	1,899	2,253	1,819	2,167	2,607	3,104	2,495	2,986
	311~349	2,013	2,390	1,930	2,300	2,725	3,248	2,613	3,120
	351~389	2,109	2,508	2,026	2,412	2,817	3,363	2,706	3,232
	391~429	2,227	2,623	2,141	2,552	2,942	3,468	2,820	3,369
	431~469	2,374	2,795	2,278	2,715	3,085	3,640	2,954	3,538
	471~509	2,508	2,954	2,406	2,868	3,216	3,797	3,085	3,691
	511~549	2,648	3,124	2,543	3,034	3,360	3,966	3,219	3,854
	551~589	2,843	3,350	2,718	3,251	3,554	4,195	3,401	4,071
	591~629	3,018	3,564	2,891	3,458	3,733	4,409	3,573	4,278
	631~669	3,203	3,781	3,060	3,669	3,911	4,623	3,739	4,489

H	Block Price (1pc) Unit Price: SZSB	SSZSB
8	565	658
10	690	798
13	741	859
16	878	1,005

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

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