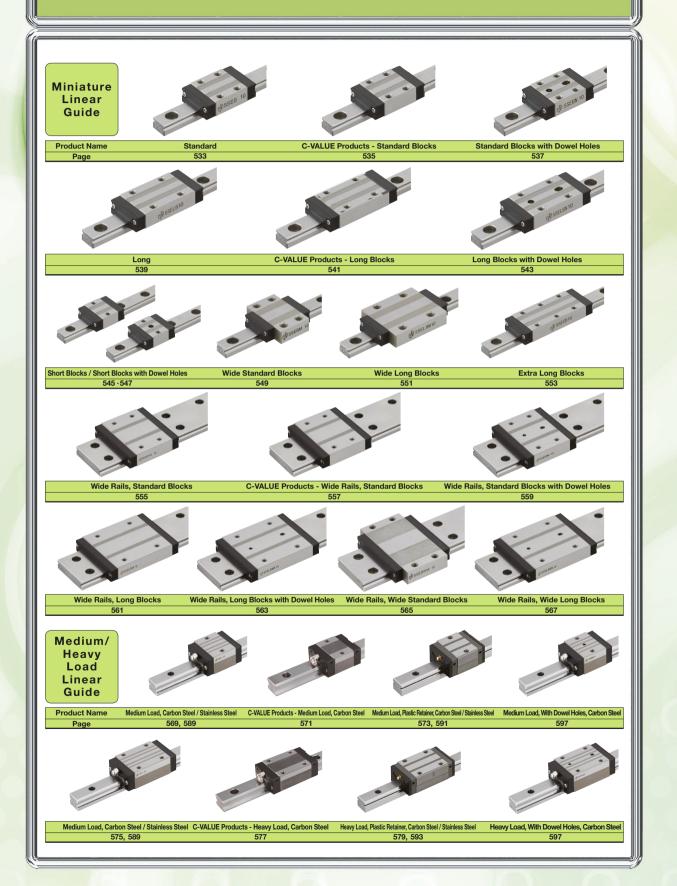
Linear Guide



Produced at SURUGA Production Platform, one of MISUMI group companies. (Excluding some of the products)

Striving to be a creative company with an outstanding machining technology.

Company Name SURUGA Production Platform Corporation

HQ 505 Nanatsu Shinya, Shimizu-ku, Shizuoka-shi, Shizuoka-ken ZIP424-8566

Established May 8th, 1964

Expands its business with "Precision Machining Technology" based on micron-level accuracies. Known as a leading manufacturer of the punch & dies components in the domestic market, we manufacture press dies components as well as plastic mold components, optical devices and FA system components.





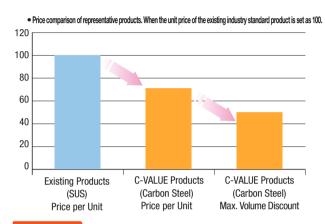
Linear Guide C-VALUE Products Overview

Miniature Linear Guides

Price

The lead time for Lg. Qty. orders is not constant. Quotation request and price negotiations are troublesome... With MISUMI

Price Reduced 32% Max. at 1pc., Reduced 52% Max at 40pc. Surchase!



Lg. Qty. Orders are Economical and Smooth

1) Price Reduced 52% Max. compared with the existing products

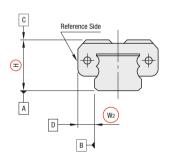
2) Enhanced service for standard Lg. Qty. orders of C-VALUE Products

Features

Equiv. Load Ratings to the Existing Products! Improved Radial Clearance Compared to Standard Grade!

Euivalent precision to that of the standard grades from other companies. Replace with confidence.

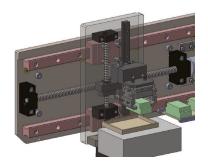
Accuracy/Load Comparison Table					
		Existing Products (High Grade)	C-VALUE Products (Standard Grade)	Existing Products (Standard Grade)	
MISUMI Re	presentative Type	SSEB	C-SEB	SSEBZ	
	Material	Stainless Steel	Carbon Steel	Stainless Steel	
	Radial Clearance	-3~0	-3~+7	0~+15	
	Height H Tolerance		±40	±20	
Precision	Pair Variation of Height H	15	30	40	
Precision	Width W2 Tolerance	±25	±40	±25	
	Pair Variation of Width W2	20	30	40	
	Running Parallelism	3~14	13~21.5	13~21.5	
Lo	ad Rating		Equiv.		

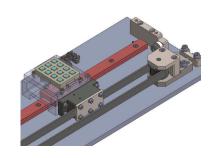


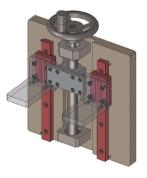
App. Example

Depending on the required precision, you can use this product for various applications from the motor driving ball screw and belt, cylinder drive to manual operations.

C-VALUE Products - App. Example





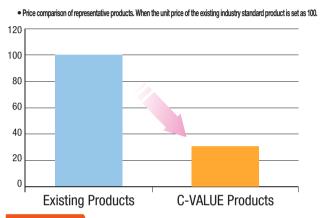


Linear Guides for Medium and Heavy Load

Price

Customers' demand on cost reduction is severe... We want to get expensive Linear Guides for Medium/Heavy Load a lot cheaper... With MISUMI

Price Reduced 70% Max. at 1pc. Purchase!



Significant Price Reduction and Assured Fast Delivery

1) Can be purchased from 1 pc at a low price

2) Short delivery time promised - Shipped within 4 workdays

Difference

Some of the dimensional accuracy and load ratings are different from those of the existing products. Installation dimensions are the same.

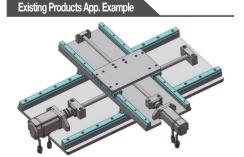
* The external dimensions are different.

Accuracy	(Unit: µm)		
		Existing Products	C-VALUE Products
MISUMI Re	presentative Type	SXR	C-SXR
	Viaterial	Carbon Steel	Carbon Steel
	Radial Clearance	-4~+3	-4~+6
	Height H Tolerance	±100	±120
Precision	Pair Variation of Height H	20	40
Precision	Width W2 Tolerance	±100	±120
	Pair Variation of Width W2	20	40
	Running Parallelism	7~16	10~24
Lo	ad Rating	100	Approx. 60

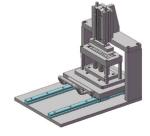
Position of H Dimension/W2 Dimension C Reference Side W2

App. Example

Use C-VALUE Products for lower precision requirement than the existing products and for application or process with medium/low load (Linear Guides for Medium/ Heavy Load only). Consider selecting the existing products for the heart of the device and selecting the C-VALUE Products for conveyance parts or rough positioning

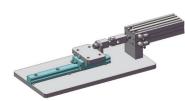


<High Precision XY Table> Orives with a Ball Screw. Used for high-precision positioning with high frequency.



C-VALUE Products App. Example

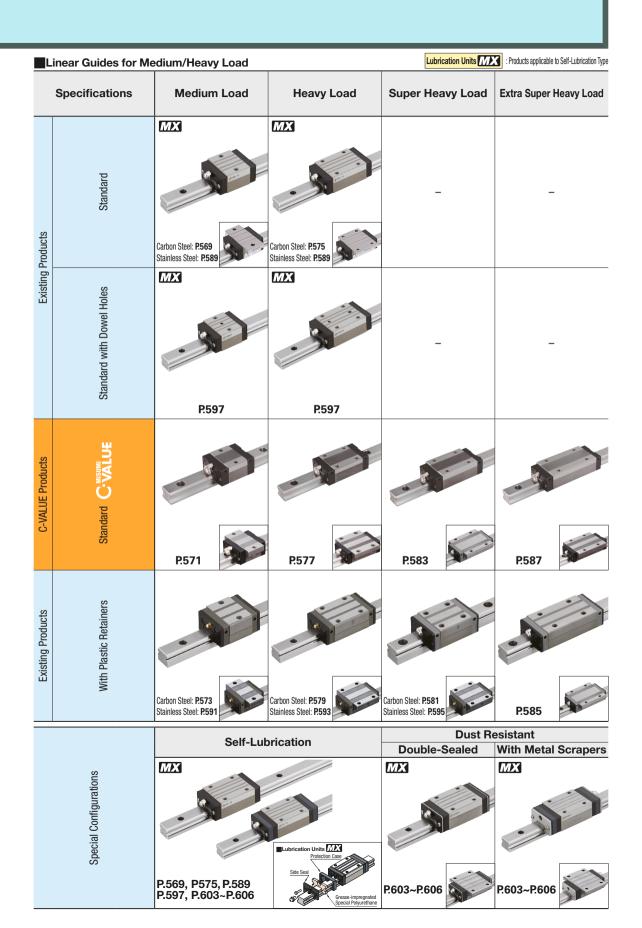
<Manual Press Fitting Machine>
Used for manual operation with low frequency



<a>Air Cylinder Drive Section>
Used for medium-accuracy positioning

Linear Guide Product List

Miniature Linear Gui			Short	Standard	Long	Extra Long
Гуре	Rail	Block				
Existing Products		Standard	DE 4E DE 40	absset to	describe	a design of the second of the
ng Pro			P.545~P.548	P.533, P.537	P.539, P.543	P.553
Existin	Standard Rail	Wide	-	g gossen 19	O see paro	_
				P.549	P.551	
C-VALUE Products		Standard	-			-
				P.535	P.541	
ducts		Standard	-			_
) Pro				P.555, P.559	P.561, P.564	
Existing Products	Wide Rail	Wide	-	Dece	DEC.	-
				P.565	P.567	
C-VALUE Products		Standard	-	P.557	-	_
			Duet Desistant		LTDC Plating	
	Special Configurations		Dust Resistant	Heat Resistant	LTBC Plating	
	S		P.601	P.599	P.532	

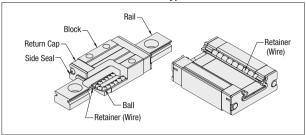


Structure and Precision of Linear Guides

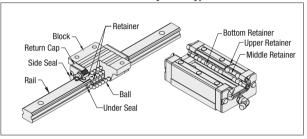
Linear Guide Preload and Allowable Load

Linear Guide - Structure and Features

Miniature Type



Medium/Heavy Load Type



Precision

Dimensional Accuracy

Time	Accuracy Star	Existing Products			C-VALUE Products	
Type	Accuracy Star	Precision Grade	High Grade	Standard Grade	Standard Grade	
	Height H Tolera	±10	±20	±20	±40	
Miniature	Pair Variation of H	leight H	7	15	40	30
Type	Width W ₂ Toler	±15	±25	±25	±40	
	Pair Variation of W	10	20	40	30	
	Accuracy Star	High Grade	Interchangeable	Standard Grade	Standard Grade	
	Height H Tolera	±40	±20	±100	±120	
	Pair Variation of H	15	15	20	40	
Medium/ Heavy Load Type	Width W ₂ Toler	±20	±30	±100	±100	
	Pair Variation of Width W2	24, 28	15	25	20	40
		33, 42	15	25	30	40
	30, 36, 40, 42		-	25	-	40

Unit: µm

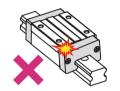
Rail Length (mm)		Miniature			Medium/Heavy Load				
		Existing Products			C-VALUE	Existing Products C-VAL			C-VALUE
over	or Less	Precision Grade	High Grade	Standard Grade	Standard Grade	High Grade	Interchangeable	Standard Grade	Standard Grade
	50	2	3	13	13	7	6	7	10
50	80	2	3	13	13	7	6	7	10
80	125	3	7	15	15	7	6.5	7	10
125	200	3	7	15	15	7	7	7	10
200	250	3.5	9	17	17	7	8	7	10
250	315	4	11	18	18	8	9	12	10
315	400	5	11	18	18	8	11	12	12
400	500	5	12	19	19	9	12	14	13
500	630	6	13.5	21	21	11	14	18	15
630	800	6	14	21.5	21.5	13	16	21	17
800	1000	-			14.5	18	23	19	
1000	1250	-			16	20	25	22	
1250	1600	-			-	23	27	23	
1600	2000	-			-	26	28.5	24	

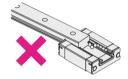
•Linear guides utilize steel balls rolling on precisely ground raceways, and the balls are recirculated by plastic return caps.

- •End seals prevent foreign substances from intruding into the blocks.
- •Miniature Type has two rows of contacting steel balls in a 4-point raceway contact design.
- Medium/Heavy Load Types have four rows of contacting steel balls in a 2-point raceway contact design.
- •Load ratings are the same for all four directions (radial, reverse-radial, and lateral directions). Can be used in any orientation.
- Cautions

Do not apply a shock to the return cap. Doing so will affect the ball circulation and may cause sliding defects.

Balls do not fall out of MISUMI linear guides when removed from rails as the blocks are equipped with ball-retainers. However, the balls may fall out by rapidly removing blocks from the rail or inserting the rail into the block at a slant. Remove and install the blocks with caution.



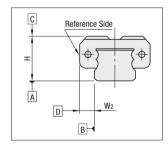


[Pair Variation of Height H]

Difference between the min./max. values of Height (H) Dimension for a number of blocks combined on one rail.

[Pair Variation of Width W₂]

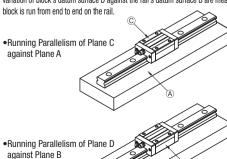
Difference between the min./max. values of Width (W) Dimension for a number of blocks combined on one rail.



[Running Parallelism]

Measured while the rail is bolted firmly to a standard datum surface base.

A relative variation of block's top surface C against the rail's bottom surface A, and a relative variation of block's datum surface D against the rail's datum surface B are measured, as the



Selection of Radial Clearance (Preload)

Ту	Туре		Size (Height H Dimension)	Radial Clearance (µm)		
	Existing	Light Preload	(roight i zimonoion)	-3~0		
Miniature	Products	Slight Clearance	6~20	0~+15		
	C-VALUE Products	Normal Clearance		-3~+7		
		Mayoral	24	-4~+2		
	Existing Products C-VALUE Products	Normal Clearance	28	-5~+2		
			33	-6~+3		
		Interchangeable, Light Preload	24, 28	-4~0		
Medium/			30, 36, 40, 42	-5~0		
Heavy Load			*42	-7~0		
			24	-4~+4		
		Normal	28, 30	-5~+5		
		Clearance	33, 36, 40	-6~+6		
			45	-7~+7		
* marked size is for Super Heavy / Extra Super Heavy I and						

^{*} marked size is for Super Heavy / Extra Super Heavy Load

Friction Force (Required Thrust Force)

Linear Guide friction force (required thrust) varies depending on load, speed and lubricant property. Especially when moment load is applied, Preload Type friction force increases.

Although seal resistance varies according to seal lip press-fit allowance and lubrication conditions, it is not proportionate to load and keeps a constant value.

Friction force is obtained by the following formula.

F : Friction (N)

 $\boldsymbol{\mu}$: Dynamic Friction Coefficient

W: Applied Load

f : Seal Resistance (2N ~ 5N)

- •Clearance and preload of MISUMI Linear Guides are controlled with minute ball size adjustments.
- Increased rigidity and reduced elastic deformation will result by preloading (negative clearance).
- Generally, selecting some preloads would cause favorable effects on accuracy and life
 of Linear Guides.
- MISUMI-manufactured Blocks and rails guarantee their own radial clearances (preload) and accuracies as sets of blocks and rails. Be sure to use the blocks and rails in sets.

Table-1. Dynamic Friction Coefficient

Туре	Dynamic Friction Coefficient (μ)
Miniature Linear Guides	0.004~0.006
Linear Guides for Medium Load	0.002~0.003

■Allowable Load

Basic Dynamic Load Rating (C)

 $F = \mu \cdot W + f$

Basic dynamic load rating is defined as: a load applied in a constant direction and ran under equal condition on a group of linear guide specimen where 90% of specimen will reach 50x10³m without experiencing any damages due to rolling fatigues.

Basic Static Load Rating (Co)

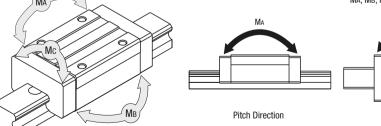
Basic static load rating is defined as: a load applied on non-moving linear guides where a sum of rolling element plastic deformation amount and rolling surface plastic deformation amount becomes equal to 0.0001 times that of the diameter of the rolling element (balls).

• Allowable Static Moment (MA, MB, Mc)

Allowable static moment is a critical static moment load defined by permanent deformation value similar to basic static load rating Co.

Allowable Load (N) \leq Co/fs $\label{eq:condition} \mbox{Allowable Moment (N \cdot m)} \leq \mbox{(Ma, Mb, Mc)/fs}$

 f_S : Static Safety Factor Co: Basic Static Load Rating (N) Ma. Mb. Mc: Allowable Static Moment (N \cdot m)



• Static Safety Factor (fs)

Basic Static Load Rating Co, in the static state or in low speed, is divided by Static Safety Factor fs in **Table - 2** depending on operating conditions.

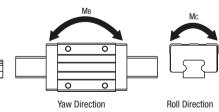


Table-2. Static Safety Factor (fs Lower Limit)

Condition of Use	Lower Limits of fs
For normal operating condition	1~2
When smooth running performance is required	2~4
When vibrations and impacts exist	3~5

Operating Life Calculation for Linear Guides

Operating Life Calculation Software

Operating Life

When Linear Guide is loaded in linear reciprocating motion, scaly damages called flaking appear due to material fatigue as the stress works on the rolling elements and rolling contact surfaces constantly. Total travel distance until the first flaking occurs is called Life of Linear Guides.

■Rated Life

Rated life is the total travel distance that 90% of linear guides of the same type can reach, under the same conditions, with no occurrence of flaking damage. Rated life can be obtained from the Basic Dynamic Load Rating and the actual load applied on the linear bushings, as shown below.

$$L = \left(\frac{C}{P}\right)^3 \cdot 50$$

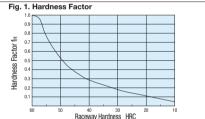
Load must be calculated before actually using Linear Guides. To obtain load during linear reciprocating motion, it is necessary to fully consider vibration and impact during motion, and also distribution status in relation to Linear Guides. So, it is not easy to obtain load by calculation. Operating temperature also critically affects life. All these conditions considered, the above-mentioned calculation formula is as follows. L : Rated Life (km)

- fH : Hardness Factors (See Fig. 1)
- ft : Temperature Factors (See Fig. 2) fc : Contact Factors (See Table-1)
- fw : Load Factors (See Table-2)
- C : Basic Dynamic Load Rating (N)
- P : Applied Load (N)

Hardness Factor (fH)

For Linear Guide applications, sufficient hardness is required for ball contact shafts. Insufficient hardness causes less allowable load, resulting in shorter

Please correct the rated life according to the hardness factors.



MISUMI provides an operating life calculation software for Linear Guides. The

life is easily calculated by just entering usage conditions such as load, speed,

The software can be found at: http://download.misumi.jp/mol/fa soft.html

Temperature Factor (ft)

If the Linear Guide temperature exceeds 100°C, the Linear Guide and shaft hardness decreases, resulting in less allowable load and shorter life than used at a room temperature.

Please correct the rated life according to the temperature factors.

* Please use Linear Guides under the allowable temperature shown on each

Fig. 2. Temperature Factor

Contact Factor (fc)

For actual applications, more than 2 blocks are generally used per shaft. In this case, load applied to each block varies depending on machining precision but is not uniformly distributed. As a result, per-block allowable load varies depending on per-shaft Linear Guide quantity.

Please correct the rated life according to Table-1 Contact Factor.

Table-1. Contact Factor

Number of Linear Guide on One Shaft	Contact Factor fc
1	1.00
2	0.81
3	0.72
4	0.66
5	0.61

Linear System Section Temperature °C

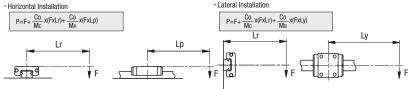
Load Factor (fw)

To calculate load applied to the Linear Guides, in addition to object weight, it requires inertia force attributed to motion velocity or moment loads. Further, it is necessary to accurately determine the temporal change of each. It. however. is difficult to attain accurate calculations due to potential vibration and impacts caused during reciprocating motion, other than repeated start-stop motions. Table-2 Load Factor helps simplify operating life calculation.

Table-2. Load Factor					
Condition of Use	fw				
No shocks/vibrations, low speed: 15m/min. or less	1.0~1.5				
No significant shocks/vibrations, medium speed: 60m/min. or less	1.5~2.0				
Mills about at the first and a contrate and a contr	00.05				

Applied Load P Calculation Method

When load is applied to the a block, convert moment load into applied load by the following formula.



P: Applied Load (N) F: Downward Load (N)

Co: Static Load Rating (N) Ma: Allowable Static Moment - Pitch Direction (N • m)

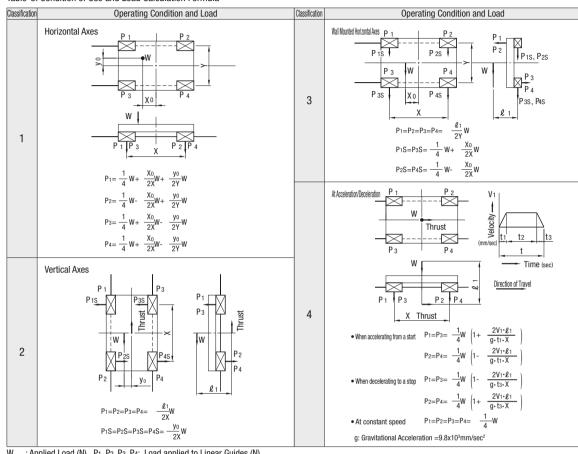
MB: Allowable Static Moment - Yaw Direction (N • m) Mc: Allowable Static Moment - Roll Direction (N · m) Lp: Distance from Block Center to Load Center in Pitch Direction (m)

Ly: Distance from Block Center to Load Center in Yaw Direction (m) Lr. Distance from Block Center to Load Center in Roll Direction (m)

■Load Calculation

Linear Guides perform linear reciprocating motion while supporting object weight. Therefore, load applied to Linear Guides varies depending on the center of gravity of the object, thrust force applied position or changes in speed at start, stop, acceleration and deceleration. For Linear Guide selections, these conditions must be fully considered.

Table-3. Condition of Use and Load Calculation Formula



: Applied Load (N) P1, P2, P3, P4: Load applied to Linear Guides (N)

X,Y: Linear Guide Span (mm) V: Travel Speed (mm/sec) t₁: Acceleration Time (sec) t₃: Deceleration Time (sec)

Average of Fluctuating Loads

In general, load applied to Linear Guides varies depending on their applications. For example, there are cases at the start and stop of reciprocating motion, during constant motion or transfer with/without a workpiece. Therefore, it requires average load under which the life equals to the one under these fluctuating loads.

①When load changes in stages according to the distance (Fig. 3) Travel distance £1 under load P1

Travel distance ℓ_2 under load P_2

l 1

For travel distance on under load Pn. average load Pm is obtained by the following formula

(2) When load changes almost linearly (Fig. 4), average load Pm is approximately obtained by the following formula

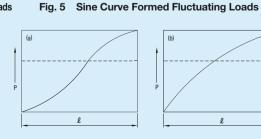
Pm: Average of Fluctuating Loads (N) ℓ : Total Travel Distance (m) $Pm \approx \frac{1}{3} (Pmin+2 \cdot Pmax)$

Pmin: Minimum Fluctuating Load (N)

③When load changes in a sine curve as shown on Fig. 5 (a) and (b), average load Pm is approximately obtained by the following formula.

Fig. 5 (a) Pm≈0.65Pmax Fig. 5 (b) Pm≈0.75Pmax





Installation and Maintenance of Linear Guides

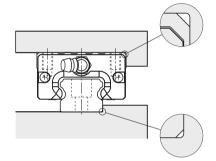
■Installation Method of Linear Guides

MISUMI Linear Guides have a datum surface (a surface with a straight groove) on both the rail and block. (See the diagram below.) When installing Linear Guides, correctly match the datum of the guides and installation bases.

Miniature Linear Guides	Linear Guides for Medium/Heavy Load				
Common to Existing and C-VALUE Products	Existing Products	Existing Products (with Plastic Retainer)	C-VALUE Products		
Datum Plane Mark	Datum Plane Mark	Datum Plane Mark	Reference Plane (Pulshing Surface) Datum Plane Mark		

■ Mounting Surface Shape

Linear Guides are designed to obtain accuracies when mounted on base plates. Generally, the datum plane is placed against the shoulder on the mounting surface. In that case, corners should have reliefs or corner radius should be machined smaller than chamfering of rails and blocks. See each product page for chamfering dimensions of products.



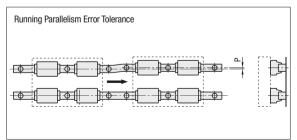
■ Block Mounting Surface Flatness

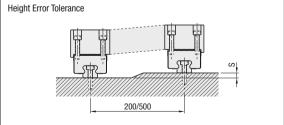
Blocks may be deformed depending on its mounting surface flatness. Block deformation may cause clearance, which might give less/more preload and cause sliding defects. Securing 5 μ mounting surface flatness is recommended.



Installation Error Tolerance

•Installation Error Tolerance is the value which does not influence operating life under common usage.





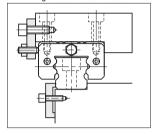
Installation Error Tolerance

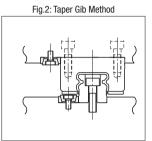
7	Гуре	Radial Clearance	Parallelism Error Tolerance of 2 Axes (P)	Height Error Tolerance of 2 Axes (S)				
Existing Products	Medium/Heavy Load Type	Light Preload, Normal Clearance	20µm or Less	330µm or Less / 500mm				
C-VALUE Products	H24 H28 H30		25µm or Less	130µm or Less / 500mm				
	H33 H36 H40	Normal Clearance	30µm or Less	130µm or Less / 500mm				
Troducts	H42 H45		40µm or Less	170μm or Less / 500mm				
Miniature Type		Light Preload	6μm or Less	15µm or Less / 200mm				
(Common to Existing	g and C-VALUE Products)	Slight Clearance	10µm or Less	30µm or Less / 200mm				

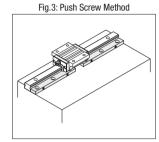
■ Rail Installation

- •When datum is provided on installation bases
- 1) Remove burrs and dusts on the mounting surfaces before installation.
- Place a rail on the installation side of the base gently, and tighten the screws temporarily while pushing the rail against the datum shoulder.
- ③Installation methods Fig. 1-3 are recommended when using linear guides where shocks, vibrations and heavy loads may exist, and high precision is required.
- 4) Fully tighten the rail mounting screws to specified torque with a torque wrench. (For torque standards. see Table-1.)

Fig.1: Push Plate Method







- •When datum is not provided on installation bases
- Straight Gauge
- 1) Place a rail on the installation side of the base gently, and tighten the screws temporarily.
- 2) Place a straightedge parallel to the temporarily tightened rail.
- ③Use the straightedge as a reference, snug down the screws while measuring the parallelism of the rail with a dial indicator as shown in Fig.4.
- (4) Fully tighten the rail mounting screws to specified torque with a torque wrench.
- (§) The secondary rail can be installed in the same straightedge method as the primary master rail, or by using the primary rail as a datum reference. In either method, use a dial indicator to measure the parallelism while the rail is being fastened down.

Fig.4: Straightedge Method



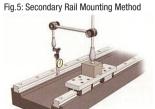


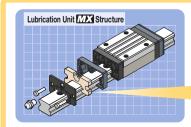
Table-1: Screw Tightening Torque (for SCM Material)

Туре	Nominal of Thread	Recommended Torque (N · m)
	M3	2.0
Madium/Hagyry Load Type	M5	8.8
Medium/Heavy Load Type	M6	12.7
	M8	29.4
	M2	0.4
Miniature Type	M2.5	0.6
wiiiiature Type	M3	1.0
	M4	2.5

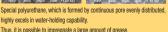
Maintenance (Grease Application)

- Grease forms lubricating film between steel balls and rolling surface of linear guides. This reduces friction and prevents seizures. Grease loss and deterioration will cause shorter life of linear guides. Apply grease appropriately depending on your condition of use. Grease listed below is applied to MISUMI Linear Guides before shipping, and the products can be used out of box.
- •Miniature Type: Filled with Lithium soap based grease (Multemp Grease PS2 by Kyodo Yushi Co., Ltd.).
- •Medium/Heavy Load Type: Filled with Lithium soap based grease (Alvania Grease S2 by Showa Shell Sekiyu K.K.).
- •Recommended Lubrication Intervals: Every 6 month
 - Every 3 month when travel distance is extensive, or every 1000km.
 - *Recommended above is the lubrication interval based on travel distance. If the grease degrades or gets contaminated faster depending on the operating environment, you will need to shorten the lubrication interval as needed.
- Lubrication Unit significantly extends lubrication intervals.

Lubrication Units Which Provide Long-term Maintenance-free Operation







Long Term Maintenance-free Condition Lubrication Unit [722] is a self-lubrication unit constructed of grease impregnated special

Capillary action provides appropriate supply of grease to the track surface of the linear guide. Oil film is always formed between the steel ball and the rail and

ovides long term maintenance-nee operation.



Since lubrication frequency can be significantly reduced, you can save maintenance cost.

Details of Special Greases / Rail Length (L Dimension) Configurable Type

■About Special Greases

The standard grease used in the linear guides can be changed to the following types.

Part Number	Product Name	Main Features
L Type	ET-100K (Made by Kyodo Yushi)	Excels in heat resistance, oxidation stability, adhesion and adhesive power. In addition, splash or leakage is little.
G Type	LG2 (Made by NSK Ltd.)	Special grease for linear guides, ball screws and etc. for clean-room use.

Product Name	Page	Grease Selection	Unit Price Added to the price of Standard Type
Miniature Linear Guides Not applicable to Heat/Dust Resistant products or products with Lubrication Unit (listed on our website).	P.533~P.568	⊕ L ⊕ G	
Medium/Heavy Load Linear Guide • Not applicable to Plastic Retainer Type.	P.569~P.572		

<Price Calculation Example> SEBL10L-270 (Standard Preload Type)

(Standard Type Unit Price) + (Additional Unit Price in the Table)



Ordering Part Number

270 (L Type Greased) 270 (G Type Greased) Please add L or G after the part number of Regular Type when placing an order.

28*2,30

200~259

260~319

380~439

500~559

560~619

620~679

680~739

740~799

800~859 860~919

920~979

1092~1151 1100~1159 1102~1161 1152~1211 1160~1219 1162~1221 1212~1271 1220~1279 1222~1281

1272~1331 | 1280~1339 | 1282~1341

1332~1391 1340~1399 1342~1401 1392~1451 1400~1459 1402~1461

1452~1511 1460~1519 1462~1521 1512~1571 1520~1579 1522~1581 1572~1631 | 1580~1639 | 1582~1641

1752~1811 | 1760~1819 | 1762~1821 1812~1871 1820~1879 1822~1881 1872~1931 1880~1939 1882~1941 1932~1959 | 1940~1959 | 1942~1959

Medium/Heavy Load Type

24, 28*1

192~251

432~491

552~611

612~671

732~791

792~851 852~911

912~971

972~1031 980~1039 1032~1091 1040~1099

1632~1691 | 1640~1699

1692~1751 | 1700~1759

*2. Medium/Heavy Load Applicable Dimension (P.569~P.580)

Confirm the details of alterations on the page shown in the table on the left Not applicable to C-VALUE Products.

Details of the Dimensions about L Dimension Configurable Type

Both ends of the rail are evenly cut for L Configurable. For the number of rail mounting holes (M) in that case, see the table below. In addition, G dimensions are calculated with the formula below.

 $G = \frac{L - (M - 1) \times F}{1 + 1}$

Example: For SSEB13-168, $G = \frac{168 - (7 - 1)x25}{2} = 9 \text{ (mm)}$

G	+ -	, ili,	111
- 4-	 L		

33, 36, 40

202~261

442~501

502~561

562~621

622~681

682~741

742~801

802~861 862~921

922~981

982~1041 1042~1101

1642~1701

1702~1761

Min. length of L dimension varies depending on the number of blocks. See each product page for details
1. C-VALUE Super Heavy Load Applicable Dimension (P583)

42,45

424~503

744~823

824~903

1224~1303

1304~1383 1384~1463

1624~1703

1704~1783

Miniature Linear Guides - Standard Rails

Н	6,8	10	13	16	20	Number of Mounting Holes M
	26~35	36~47	46~57	71~87	101~139	2
	36~50	48~67	58~82	88~127	140~199	3
	51~65	68~87	83~107	128~167	200~259	4
	66~80	88~107	108~132	168~207	260~319	5
	81~95	108~127	133~157	208~247	320~379	6
	96~110	128~147	158~182	248~287	380~439	7
	111~125	148~167	183~207	288~327	440~499	8
	126~129	168~187	208~232	328~367	500~559	9
L	-	188~207	233~257	368~407	560~619	10
_	-	208~227	258~282	408~447	620~679	11
	-	228~247	283~307	448~487	680~699	12
	-	248~267	308~332	488~527	-	13
	-	268~274	333~357	528~567	-	14
	-	-	358~382	568~607	-	15
	-	-	383~407	608~647	-	16
	-	-	408~432	648~669	-	17
	-	-	433~457	-	-	18
	-	-	458~469	-	-	19
F	15	20	25	40	60	

Miniature Type - Wide Rails

Н	6, 5	9	12	14	16	Number of Mounting Holes M
	-	51~67	51~67	71~89	71~89	2
	51~67	68~97	68~97	90~129	90~129	3
	68~87	98~127	98~127	130~169	130~169	4
	88~107	128~157	128~157	170~209	170~209	5
	108~127	158~187	158~187	210~249	210~249	6
	128~129	188~217	188~217	250~289	250~289	7
	-	218~247	218~247	290~329	290~329	8
L	-	248~277	248~277	330~369	330~369	9
-	-	278~289	278~289	370~409	370~409	10
	-	-	-	410~449	410~449	11
	-	-	-	450~469	450~489	12
	-	-	-	-	490~529	13
	-	-	-	-	530~569	14
	-	-	-	-	570~609	15
	-	-	-	-	610~649	16
	-	-	-	-	650~669	17
F	20	3	0	4	0	

M (number of mounting holes) for H16 type will be Mx2 since there are two rows of mounting holes.
Min. length of L dimension varies depending on the number of blocks. See each product page for details.

Linear Guides with LTBC Plating



Low Temperature Black Chrome Plated Linear Guide Features

LTBC Plating on linear guides is 5um of fluoropolymer layer chemically deposited as black film on rails and blocks, and it has long-lasting rust prevention effect. The coating layer is immune to cracking from tight radii strike-folding and does not flake under repeated bending. Any superficial coating particles that may come off the rolling contact surfaces are mixed in with the grease and remain its lubricity. (Note) Surface treatment will not be applied to mounting holes of rails and blocks of low temperature black chrome plated linear guides.

■ Description of Low Temperature Black Chrome Plated Model Type:

For low temperature black chrome plated products, change the first letter of part numbers "S" to "R".

	[Standard]		[Low Temperature Black Chrome Plated Products]
	SEB10-115	⇒	REB10-115
(E ₁₄)	SSEB16-270	⇒	RSEB16-270
(Ex.)	SXR24-520	⇒	RXR24-520
	SSVR33-700	⇒	RSVR33-700

The precision grade and standard type of the existing products and C-VALUE products are not available. Only the high grade type of the existing products is available ■ Table: Low Temperature Black Chrome Plated Miniature Linear Guides Cannot be combined with Alteration WC (Parallel Use of 2 Bails)

			Catalog		Carbo	n Steel		Stainless Steel					
Rail	Block Length	Block Type	Page	1 block		2 blocks		1 bl	lock	2 blocks			
				Selectable	Configurable	Selectable	Configurable	Selectable	Configurable	Selectable	Configurable		
Standard	Standard	Standard	P.533	REB	REBL	RE2B	RE2BL	RSEB	RSEBL	RSE2B	RSE2BL		
Standard	Long	Standard	P.539	RELB	RELBL	REL2B	REL2BL	RSELB	RSELBL	RSEL2B	RSEL2BL		
Wide	Standard	Standard	P.555	REBW	REBWL	RE2BW	RE2BWL	RSEBW	RSEBWL	RSE2BW	RSE2BWL		
	Long	Standard	P.563	RELBW	RELBWL	REL2BW	REL2BWL	RSELBW	RSELBWL	RSEL2BW	RSEL2BWL		

The high grade type of the existing products and C-VALUE products are not available. Only the standard type of the existing products is available Cannot be combined with Alteration WC (Parallel Use of 2 Rails).

Table: Low Temperature Black Chrome Plated Medium and Heavy Load Linear Guides 1 block 2 blocks 1 block 2 blocks Block Lenath Block Type Page Standard With Dowel Holes P.597 Wide (Through Holes P.569 P.569 Standard P.575,589 With Dowel Hole P.597 P575 P575

Part Number			Price	Part Numbe	er		Unit		Part Numbe			Unit Price		
Туре	н	L	Block 1 pc.	Block 2 pcs.	Туре	н	L	Block 1 pc.	Block 2 pcs.	Туре	н	L	Block 1 pc.	Block 2 pcs
		40~55					50~110				Н	100~220	i pc.	Z pcs
		56~70				ĺ	111~140					221~280	1	
	8	71~85					141~170					281~340		
	l °	86~100				9	171~200					341~400	i	
		101~115					201~230					401~460	i	
		116~130					231~260					461~520		
		35~75					261~290				24	521~580	1	
		76~95					50~110			ľ	24	581~640		
		96~115					111~140					641~700		
		116~135 136~155				12	141~170 171~200					701~760	ļ	
	10	156~175				12	201~230					761~820	ļ	
	10	176~175					231~260					821~880	Į.	
		196~215					261~290					881~940 941~1000		
		216~235					70~150					160~280		
		236~255			Miniature Type -		151~190					281~340		
		256~275			Wide Rails		191~230			Medium/Heavy		341~400	i	
		45~95				14	231~270			Load Type		401~460	1	
		96~120					271~310					461~520	İ	
		121~145				_	311~350					521~580	İ	
		146~170			Page		351~390				28	581~640]	
		171~195			P.555, P.563		391~430 431~470			Page		641~700		
		196~220 221~245				-	70~150			P.569, P.575		701~760		
Miniature		246~270					151~190			P.589, P.597		761~820		
near Guides	13	271~295				l	191~230					821~880	ł	
Standard	1	296~320					231~270					881~940 941~1000	ł	
		321~345					271~310					160~280		
Rails		346~370					311~350					281~340		
		371~395				16	351~390					341~400	i	
		396~420					391~430					401~460	i	
Page		421~445					431~470					461~520		
P.533, 539	\perp	446~470					471~510					521~580		
		70~150				ł	511~550 551~590				33	581~640	ļ	
		151~190 191~230					591~630					641~700		
		231~270					631~670					701~760	ļ	
		271~310			Not applicable	do 11						761~820		
		311~350			wor applicable	io H	J.J.					821~880 881~940	1	
	١.,	351~390										941~1000		
	16	391~430								₱ For H24, 28, or	22		to 1000m	m
		431~470								U rui r124, 28, 0f	JJ, 1	L is available up	J 10 1000III	ш.
		471~510												
		511~550				Ord	- n	Numbe		L				

Accuracy

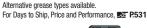
Miniature Type Standard Preload Type Height H Tolerance Pair Variation of Height H Dimension Tolerance of Width W ±25

Pair Variation of Width W Precisions of low temperature black chrome plated miniature linear guides have been revised as above Accuracy of Medium/Heavy Load Type is the same as that of Standard Type The sliding resistance is higher than usual approx. 1.2 N or lower.





■ REB8L - 70 (L Type Greased REB8G - 70 (G Type Greased)





Alterations Tonfirm the details of alteration on each page.

Standard Blocks, Light Preload / Slight Clearance

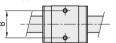
Similar Products Comparison Points | The most basic type among all the industry standard specifications. Select from Light Preload Types with superior precision and rigidity.

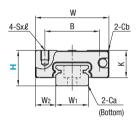


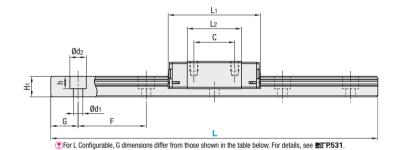
	M Material		Туре			Number
	T Hardness	Light F	Preload	Slight Clearance	Dimension	of
	II Hardiness	High Grade	Precision Grade	Standard Grade	Dilliciololi	Blocks
holustry Standard Materials		SSEB	SSEBV	SSEBZ	Selectable	1
	Stainless Steel	SSE2B	SSE2BV	SSE2BZ	Selectable	2
	56HRC~	SSEBL	SSEBLV	SSEBLZ	Configurable	1
E 88		SSE2BL	SSE2BLV	SSE2BLZ	Configurable	2
		SEB	SEBV	SEBZ	Calantable	1
	Carbon Steel	SE2B	SE2BV	SE2BZ	Selectable	2
	58HRC~	SEBL	SEBLV	SEBLZ	Cardiannahla	1
		SE2BL	SE2BLV	SE2BLZ	Configurable	2

Heat Resistant Temperature: -20 ~ 80°C • H6 is for stainless steel only.

TH6 has no standard grade / precision grade.







- Precautions for Use
- Blocks are equipped with retainers (wire) to prevent balls from falling off. For how to handle the blocks, see F.525.
- For how to handle the blocks, see PS-25.

 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 lines dubles 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.

- Accessory
 -H6 comes with Number 0, Class 1 Phillips button head screws (M2x6).
 -H8 comes with cap screws (M2x6).

- Filled with Lithium soap based grease (Multemp Grease PS2 by Kyodo Yushi Co., Ltd.).

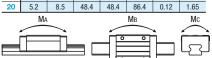
 For operating life calculation, see FS27.

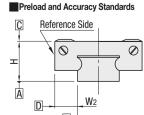
 For operating life calculations, use our free calculation software from http://download.misumi.jp/

Part Number					Blo	ck [Dimensio	n				(Guid	e Ra	il Dimensio	า	
Туре	н	L	w	L ₁	В	С	Sxl	L2	K	Cb	W ₁	W2	H ₁	Ca	Counterbored Hole d _{1x} d _{2x} h	F	G
© Dimensions in () are for 2-Block Type. Stainless Steel		25~100 (70)	12	17.4	8	-	M2x1.5	9.7	4.5	0.3	5	3.5	4	0.3	2.4x3.5x1	15	5
Industy Standard Specifications SSEB SSEBV SSEBZ SSE2BV SSE2BZ SSE2BZ SSE2BZ	8	40~130 (70)	17	23.6	12	8	M2x2.5	13.6	6.5	0.3	7	5	4.7	0.3	2.4x4.2x2.3	15	5
SSEBL SSEBLV SSEBLZ SSE2BL SSE2BLV SSE2BLZ	10	35~275 (75)	20	30	15	10	МЗхЗ	19	7.8	0.3	9	5.5	5.5	0.3	3.5x6x3.5	20	7.5
Carbon Steel SEB SEBV SEBZ	13	45~470 (95)	27	33.9	20	15	M3x3.5	19.9	10	0.5	12	7.5	7.5	0.5	3.5x6x4.5	25	10
SE2B SE2BV SE2BZ SEBL SEBLV SEBLZ SE2BL SE2BLV SE2BLZ	16	70~670 (110)	32	42.4	25	20	M3x4	27.4	12	0.5	15	8.5	9.5	0.5	3.5x6x4.5	40	15
	20	100~700	40	50	30	25	M4x6	34.6	15	0.5	20	10	11	0.5	6x9.5x5.5	60	20

kgf=	=Nx0	.101	972

	Basic Lo	ad Rating	Allowab	le Static	Mass		
Н	C (Dynamic) kN	Co (Static) kN	Ma N∙m	Mв N∙m	Mc N·m	Block kg	Guide Rail kg/m
6	0.3	0.6	0.8	0.8	1.5	0.004	0.13
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





			Omic pin		
Specifications	Light Preload, High Grade	Slight Clearance, Standard Grade			
Radial Clearance	-3	-3~0			
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 W2	20	10	40		
Running Parallelism of Plane C against Plane A					
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.

= 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.

Unit Price



Part Number

275
75 (LTBC Plating)
75 (L Type Greased)
75 (G Type Greased)

LTBC Plating and various Grease types available as alternative. P.531

н	L		Stainles	ss Steel		Carbon Steel						
п	-	SSEB	SSE2B		SSE2BZ	SEB	SE2B	SEBZ	SE2BZ			
		OOLD										
	25		-	-	-	-	-	-	-			
	40		-	-	-	-	-	-	-			
6	55		-									
	70			-	-	-	-	-	-			
	85 100			-	-	-	-	-	-			
	40		-		-	-	-	-	-			
	55		-		-		-		-			
	70		-		-		-		-			
8	85											
0	100											
	115											
	130	_										
	35		-		-		-		-			
	55		-		-		-		-			
	75											
	95											
	115											
	135											
10	155											
	175											
	195											
	215											
	235											
	255											
	275											
	45		-		-		-		-			
	70		-		-		-		-			
	95											
	120											
	145											
	170											
	195 220											
	220											
13	245											
	270											
	295 320											
	345	_										
	370											
	395											
	420											
	445											
	470											
	70		-		-		-		-			
	110											
	150											
	190											
	230											
	270											
	310											
16	350											
10	390											
	430											
	470											
	510											
	550											
	590											
	630											
	670											
	100		-		-		-		-			
	160	_										
	220											
	280											
20	340 400											
20	460											
	520											
	580											
	640											
	700											
	700											

Dimension	Configurable	Type (1mm	Increment)

	Unit Price											
н	Stainles	ss Steel	Carbon Steel									
п	SSEBL	SSE2BL	SEBL	SE2BL								
	SSEBLZ	SSE2BLZ	SEBLZ	SE2BLZ								
6			-	-								
8												
10												
13												
16												
20												

Alterations	Code	Spec.
Tapped Hole	MC	H MC 6 M2.6
Rail End Cut	Left End Cut LLC	Cuts rail ends. Ordering Code
Rail is cut with the product ID facing out (datum on other side).	Right End Cut RLC	10 2.5 13 5 16 10 Overall length will be shorter by cutting. ⊗Not applicable to 14,8,20. ⊗Not applicable to 135 of H10 and L45 of H13.
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	В3	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: SSEB10-255-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.

Part Number - L -

(MC, RLC, LLC, WC, B3, B4) RLC

Additi	ional Block Pri	ce (Same Pric	Selectable Shortest Rail Length for B3/B4					
н		e Adder Carbon Steel	B4: Pric Stainless Steel	e Adder Carbon Steel	н	B3 (3-block)	B4 (4-block)	
*6		-	-	-	6	85	100	
8					8	85	115	
10					10	115	155	
13					13	145	170	
16					16	190	230	
20					20	220	280	

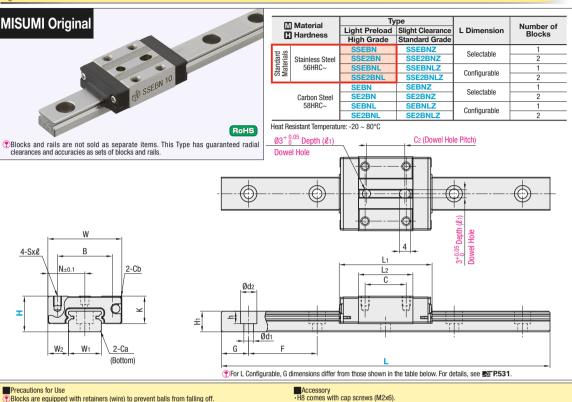
Selection Example: SEB16-670-B4

^{*} H6 B3 (3 blocks) is applicable to High Grade Type only

To 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.

Standard Blocks with Dowel Holes, Light Preload / Slight Clearance

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



Precautions for Use

Example

- Precautions for use

 Blocks are equipped with retainers (wire) to prevent balls from falling off.

 For how to handle the blocks, see F.P.525.

 Badia learances and accuracies are not guaranteed if the blocks and rails are interchanged from the original set combinations.

 Straight growes 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.

- Filled with Lithium soap based grease (Multemp Grease PS2 by Kyodo Yushi Co., Ltd.).

 For operating life calculation, see FF.527.
- For operating life calculations, use our free calculation software from http://download.misumi.jp/

Pa	Part Number Block Dimens					sion			Dowel Hole Dimension				Guide Rail Dimension								
Туре Н		н	L	w	L ₁	В	С	Sxℓ	L2	K	Cb	N	C2	(£1)	W ₁	W2	H ₁	Ca	Counterbored Hole d1xd2xh	F	G
Stainless Steel	are for 2-Block Type.	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
Standard Specifications SSEBN SSE2BN	SSEBNZ SSE2BNZ	10	35~275 (95)	20	30	15	10	М3х3	19	7.8	0.3	10	10	2.5	9	5.5	5.5	0.3	3.5x6x3.5	20	7.5
SSEBNL SSE2BNL	SSEBNLZ SSE2BNLZ	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	SEBNZ SE2BNZ	16	70~670 (150)	32	42.4	25	20	М3х4	27.4	12	0.5	16	20	4	15	8.5	9.5	0.5	3.5x6x4.5	40	15
SEBNL SE2BNL	SEBNLZ SE2BNLZ	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

	Basic Loa	ad Rating	Allowab	le Static	Moment	Mass			
Н	C (Dynamic) kN	Co (Static) kN	M _A N·m	M _B N⋅m	Mc N·m	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		
	MA	<u> </u>		Мв		M	C		

Preload and Accuracy Standards

With Dowel Holes

			Unit: µm	
i	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 W ₂ Tolerance	±25	±25	
	Pair Variation of Width W2	20	40	
	Running Parallelism of Plane C against Plane A	See P525		
	Running Parallelism of Plane D against Plane A	366 I	.020	

Slight Clearance Type has clearance (Gap) between rails and blocks. If precision / rigidity is required, select Light Preload Type.

= For customers selecting MISUMI original specifications =

frame-surrounded products are compliant with the standard specifications (Stainless Steel, Light Preload, High Grade Type).

Select the block from this spec.



Part Number

100 (L Type Greased) SSE2BNL10G - 100 (G Type Greased) Alternative grease types available.

₽¥ P.531

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



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

Alterations	Code	Spec.
Tapped Hole	MC	Changes the rail mounting holes from counterbored holes to tapped holes. H MC 8 M3 10 10 M4 15 M5 16 M5 M5 M5 M5 M5 M5 M5 M
Rail End Cut LLC RLC	Left End Cut LLC	Cuts rail ends. (<u>Ordering Code</u>) LLC H
Rail is cut with the product ID facing out (datum on other side).	Right End Cut RLC	16 10 Papplicable to Selectable Type only. Overall length will be shorter by cutting. Not applicable to H8, 20 Not applicable to L35 of H10 and L45 of H13.
3-Block Specifications	В3	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: SSEBNL10-200-83
4-Block Specifications	В4	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: SEBNL 16-600-B4

Addit	Jonai Biook i i	ioc (ourie i iii	Ocicotable offortest Hall Length for Do/D+				
н	B3: Pric	e Adder	B4: Pric	e Adder	н	B3	B4
	Stainless Steel	Carbon Steel	Stainless Steel	Carbon Steel	п	(3-block)	(4-block)
8					8	85	115
10					10	115	155
13 16					13	145	170
16					16	190	230
20					20	220	280

Options for Linear Guide **Position Retaining Parts**



Block / Rail Fixing Parts



P613

Block Derailment Prevention Parts Linear Guide Lock Units





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.

Carbon Steel

High Grade Standard Grade

Stainless Steel

High Grade Standard Grade

Long Blocks, Light Preload

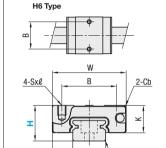
Similar Products Comparison Points | The industry standard Long Block Type. Select from Light Preload Types with superior precision and rigidity.

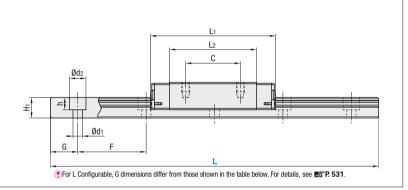


	M Material		Type						
Hardness		Light F	Preload	Slight Clearance	Dimension	of			
		High Grade	Precision Grade	Standard Grade	Difficition	Blocks			
Materials		SSELB	SSELBV	SSELBZ	Selectable	1			
	Stainless Steel 56HRC~	SSEL2B	SSEL2BV	SSEL2BZ	Selectable	2			
Industry Standard I		SSELBL	SSELBLV	SSELBLZ	Configurable	1			
캻		SSEL2BL	SSEL2BLV	SSEL2BLZ	Connigurable	2			
		SELB	SELBV	SELBZ	Selectable	1			
	Carbon Steel	SEL2B	SEL2BV	SEL2BZ	SCICCIADIC	2			
	58HRC~	SELBL	SELBLV	SELBLZ	Configurable	1			
		CELODI	CEL 2DI V	CELODI 7	Configurable	2			

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

Heat Resistant Temperature: -20 ~ 80°C
• H6 is for stainless steel (High Grade) only.





2-Ca

- Precautions for Use

 *Blocks are equipped with retainers (wire) to prevent balls from falling off.
 For how to handle the blocks, see ≥ 75.25.

 *Radial clearnaces 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 lines dubles 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.

- Accessory
 H6 comes with Number 0, Class 1 Phillips button head screws (M2x6).
 H8 comes with cap screws (M2x6).

- Others

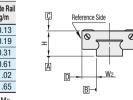
 Filled with Lithium soap based grease (Multemp Grease PS2 by Kyodo Yushi Co., Ltd.).

 For operating life calculations, use our free calculation software from http://download.misumi.jp/mol/fa_soft.html.

	Part Number				Block Dimension							Guide Rail Dimension							
Type H			н	L	w	L ₁	В	С	Sxl	L2	K	Cb	W ₁	W2	H ₁	Ca	Counterbored Hole d1xd2xh	F	G
Dime	nsions in () are for 2-	Block Type.	6	40~100 (70)	12	21	8	-	M2x1.5	13.3	4.5	0.3	5	3.5	4	0.3	2.4x3.5x1	15	5
Stainless Industry Standard S SSELE	pecifications	SSELBZ	8	40~130 (85)	17	32	12	13	M2x2.5	22	6.5	0.3	7	5	4.7	0.3	2.4x4.2x2.3	15	5
SSEL2 SSELB	B SSEL2BV L SSELBLV	SSEL2BZ SSELBLZ	10	55~275 (95)	20	40	15	16	МЗхЗ	29	7.8	0.3	9	5.5	5.5	0.3	3.5x6x3.5	20	7.5
Carbon S SELB		SSEL2BLZ SELBZ	13	70~470 (120)	27	45.8	20	20	M3x3.5	31.8	10	0.5	12	7.5	7.5	0.5	3.5x6x4.5	25	10
SEL2B SELBL	SEL2BV SELBLV	SEL2BZ SELBLZ	16	110~670 (150)	32	58.3	25	25	M3x4	43.3	12	0.5	15	8.5	9.5	0.5	3.5x6x4.5	40	15
SEL2B	L SEL2BLV	SEL2BLZ	20	160~700 (220)	40	67.7	30	30	M4x6	52.3	15	0.5	20	10	11	0.5	6x9.5x5.5	60	20

Preload and Accuracy Standards

						kgf=Nx	0.101972	
	Basic Lo	ad Rating	Allowab	le Static	Moment	Mass		
Н	C (Dynamic) kN	Co (Static) kN	Ma N∙m	M _B N·m	Mc N·m	Block kg	Guide Rail kg/m	
6	0.6	1.0	1.8	1.8	2.3	0.005	0.13	
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	



			Unit: µm
Specifications	Light Preload, High Grade	Light Preload, Precision Grade	Slight Clearance Standard Grade
Radial Clearance	-3	~0	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 W2	20	10	40
Running Parallelism of Plane C against Plane A		See P.52 !	=
Running Parallelism of Plane D against Plane A		ee F.32 :	

Slight Clearance Type has clearance (Gap) between rails and blocks. If precision / rigidity is required, select Light Preload Type.

= 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.



Part Number

SSELB10 - 275
RSELB10 - 75 (LTBC Plating)
SSELB10L - 75 (LType Greased)
SSELB10G - 75

LTBC Plating and various Grease types available as alternative.

P.531

					Unit	Price			
Н	L			ss Steel			Carbo	n Steel	
		SSELB	SSEL2B	SSELBZ	SSEL2BZ	SELB	SEL2B	SELBZ	SEL2BZ
	40		-	-	-	-	-	-	-
	55		-	-	-	-	-	-	-
6	70			-	-	-	-	-	-
ŭ	85			-	-	-	-	-	-
	100			-	-	-	-	-	-
_						-		-	
	40		-		-		-		-
	55		-		-		-		-
	70		-		-		-		-
8	85								
	100								
	115								
	130								
_	55		-		-		-		-
	75		-	_	-		-		-
	95		_						-
	115								
	135								
10	155								
10	175								
	195								
	215								
	235								
	255								
		_		_					
	275								
	70		-		-		-		-
	95		-		-		-		-
	120								
	145								
	170								
	195								
	220								
	245								
13	270								
	295								
	320								
	345								
	370								
	395								
	420			_					
	420								
	445								
	470								
	110		-		-		-		-
	150								
	190								
	230								
	270								
	310								
40	350								
16	390								
	430								
	470								
	510								
	550								
	590								
	630								
	670								
_									-
	160		-		-		-		-
	220								
	280								
	340								
	400								
20	460								
	520								
	580								
	640								
	700								
	D: :	0 0		- 4					

	700												
L	L Dimension Configurable Type (1mm Increment)												
Unit Price													
	н		Stainles	s Steel			Carbo	n Steel					
	п	SSE	LBL	SSEI	_2BL	SEL	BL	SEL2BL					
		SSEL	BLZ	SSEL	2BLZ	SEL	BLZ	SEL2	2BLZ				
	6						-		-				
	8												
	10												
	13												
	16												
	20												
_													

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.



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

Alterations	Code	Spec.
Tapped Hole	MC	Changes the rail mounting holes H MC H MC T3 M4 M5 M5 M6 M5 M6 M5 M6 M5 M6 M6
Rail End Cut:	Left End Cut LLC	Cuts rail ends. Ordering Code LLC H L Cut N PApplicable to Selectable Type only.
Rail is cut with the product ID facing out (datum on other side).	Right End Cut RLC	10 2.5
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	В3	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: SSELB10-215-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: SELBZ13-220-B4

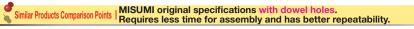
A	Additional Block Price (Same Price for High/Standard Grade) B3: Price Adder B4: Price Adder B3: B4											
н			B4: Pric Stainless Steel		н	B3 (3-block)	B4 (4-block)					
8					6	85	-					
10					8	115	-					
13					10	155	195					
16					13	170	220					
20					16	230	270					
No	t applicable to H6	6.			20	280	340					
₹)No	t applicable to H6	S.			20	280	340					

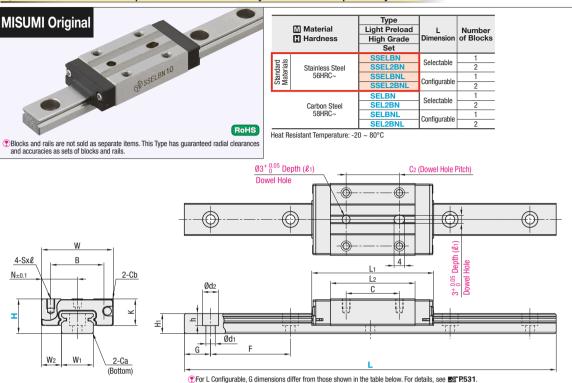


Long Blocks with Dowel Holes, Light Preload

= For customers selecting MISUMI original specifications = frame-surrounded products are compliant with the standard specifications

(Stainless Steel, Light Preload, High Grade Type). Select the block from this spec.





- Precautions for Use
- Blocks are equipped with retainers (wire) to prevent balls from falling off. For how to handle the
- 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

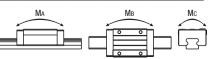
performance. Accessory

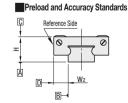
·H8 comes with cap screws (M2x6).

- Filled with Lithium soap based grease (Multemp Grease PS2 by Kyodo Yushi Co., Ltd.).
 For operating life calculation, see 52 P527.
- For operating life calculations, use our free calculation software from http://download.misumi.jp/

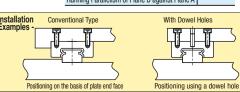
Part	Part Number				Block Dimension Do							Dowel Hole Dimensions Guide Rail Dimension				n					
Type H			L	w	L ₁	В	С	Sxl	L ₂	к	Cb	N	C ₂	(l1)	W ₁	W ₂	H ₁	Ca	Counterbored Hole d1xd2xh	F	G
① Dimensions in () are for 2-Block Type.		8	40~130 (100)	17	32	12	13	M2x2.5	22	6.5	0.3	8.5	13	2	7	5	4.7	0.3	2.4x4.2x2.3	15	5
Stainless Steel	Carbon Steel	10	55~275 (115)	20	40	15	16	М3х3	29	7.8	0.3	10	16	2.5	9	5.5	5.5	0.3	3.5x6x3.5	20	7.5
Standard Specifications SSELBN SSEL2BN	SELBN SEL2BN	13	70~470 (120)	27	45.8	20	20	M3x3.5	31.8	10	0.5	13.5	20	3	12	7.5	7.5	0.5	3.5x6x4.5	25	10
SSELBNL SSEL2BNL	SELZBN SELBNL SELZBNL	16	110~670 (150)	32	58.3	25	25	M3x4	43.3	12	0.5	16	25	4	15	8.5	9.5	0.5	3.5x6x4.5	40	15
20		160~700 (220)	40	67.7	30	30	M4x6	52.3	15	0.5	20	30	4	20	10	11	0.5	6x9.5x5.5	60	20	

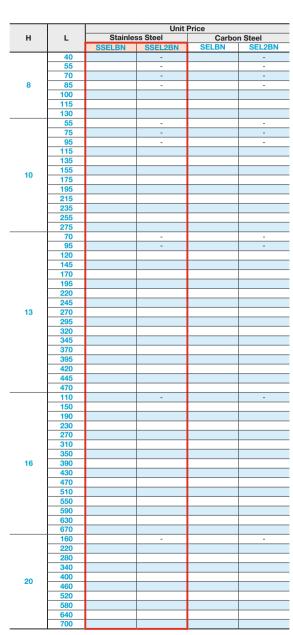
						kgf=Nx	0.101972
	Basic Lo	ad Rating	Mass				
Н	C (Dynamic) kN	Co (Static) kN	Ma N·m	M _B N·m	Mc N·m	Block kg	Guide Rail kg/m
8	1.6	2.4	7.5	7.5	9.0	0.016	0.19
10	2.2	3.7	12.3	12.3	13.0	0.03	0.31
13	3.5	5.3	24.5	26.4	32.3	0.06	0.61
16	5.8	8.7	57.8	62.6	67.6	0.10	1.02
20	7.2	13.5	80.7	80.7	138.2	0.18	1.65





Specifications	Light Preload, High Grade
Radial Clearance	-3~0
Height H Tolerance	±20
Pair Variation of Height H	15
Width W2 Tolerance	±25
Pair Variation of Width W2	20
Running Parallelism of Plane C against Plane A	Coo DE 2E
Running Parallelism of Plane D against Plane A	366 F.323





L Dimension Configurable Type (1mm Increment)

	Unit Price									
Н	Stainle	ss Steel	Carbo	n Steel						
	SSELBNL	SSEL2BNL	SELBNL	SEL2BNL						
8										
10										
13										
16										
20										

To 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.



Ordering Part Number

SSELBN10 -275 ●SSELBN10L -

75 (L Type Greased) SSELBN10G - 75 (G Type Greased)

Alternative grease types available.



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

Alterations	Code	Spec.					
Tapped Hole	MC	H MC 8 M3 10 Mc M5 M5 M5 M5 M5 M5					
Rail End Cut:	Left End Cut LLC	Cuts rail ends. Drdering Code LLC H					
Rail is cut with the product ID facing out (datum on other side).	Right End Cut RLC	16 10 • Applicable to Selectable Type only. • Overall length will be shorter by cutting. Not applicable to H8/20					
3-Block Specifications	В3	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: SELBN10-195-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 Bail Length" for details. Selection Example: SELBN16-510-B4					

	Add	litional Blo	ck Price			Select	able Shortest Rai	Length for B3/B	
ĺ	н		e Adder		e Adder	н	B3	B4	
	- "	Stainless Steel	Carbon Steel	Stainless Steel	Carbon Steel		(3-block)	(4-block)	
	8			-	-	8	115	-	
	10					10	155	195	
	13					13	170	220	
	16					16	230	270	
	20					20	280	340	
	ONL.	and Product and April	110 D4 /4 blos	· L · · V					

Not applicable to H8 B4 (4 blocks) **■**Options for Linear Guide

Block / Rail Fixing Parts Position Retaining Parts Rail Push Plates

P.612





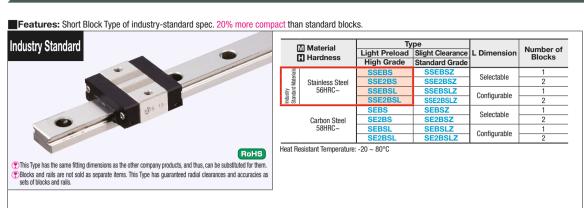


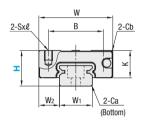


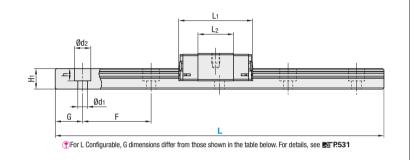
P.612

P613

Short Blocks, Light Preload / Slight Clearance







- Precautions for Use

- Precautions for Use

 *Blocks are equipped with retainers (wire) to prevent balls from falling off.

 For how to handle the blocks, see F.525.

 *Radid learances and accuraces are not guaranteed if the blocks and rails are interchanged from the original set combinations.

 *Straight growoes are provided on datum planes.

 Be sure to match the datum lines when using.

 *Pails 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.

Accessory
• H8 comes with cap screws (M2x6).

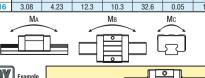
- Others

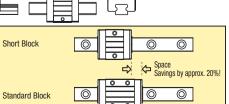
 •Filled with Lithium soap based grease (Multemp Grease PS2 by Kyodo Yushi Co., Ltd.).

 •For operating life calculations, use our free calculation software from http://download.misumi.jp/mol/fa_soft.html.

	Part Number				Block Dimension							Guide Rail Dimension						
	Type H			w	L ₁	В	Sxl	L2	K	Cb	W ₁	W2	H ₁	Ca	Counterbored Hole d1xd2xh	F	G	
© Dimensions in () are for 2-Block Type. Stainless Steel Indexty Standard Sectionies		8	40~130 (55)	17	19.6	12	M2x2.5	9.6	6.5	0.3	7	5	4.7	0.3	2.4x4.2x2.3	15	5	
SSEBS SSE2BS SSEBSL	SSEBSZ SSE2BSZ SSEBSLZ	10	35~275 (75)	20	22.9	15	М3х3	11.9	7.8	0.3	9	5.5	5.5	0.3	3.5x6x3.5	20	7.5	
Carbon Steel SEBS	SSE2BSLZ SEBSZ	13	45~470 (95)	27	27	20	M3x3.5	13	10	0.5	12	7.5	7.5	0.5	3.5x6x4.5	25	10	
SE2BS SEBSL SE2BSL	SE2BSZ SEBSLZ SE2BSLZ	16	70~670 (110)	32	32.7	25	M3x4	17.7	12	0.5	15	8.5	9.5	0.5	3.5x6x4.5	40	15	

						kgf=N	x0.101972
	Basic Lo	ad Rating	Moment	Mass			
Н	C (Dynamic) kN	Co (Static) kN	M _A N∙m	M _B N⋅m	Mc N⋅m	Block kg	Guide Rail 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

		Unit: µr	
Specifications	Light Preload, High Grade	Slight Clearance, Standard Grad	
Radial Clearance	-3~0	0~+15	
Height H Tolerance	±20	±20	
Pair Variation of Height H	15	40	
Width W ₂ Tolerance	±25	±25	
Pair Variation of Width W2	20	40	
Running Parallelism of Plane C against Plane A	C00 F	DESE	
Running Parallelism of Plane D against Plane A	See P.525		

Slight Clearance Type has clearance (Gap) between rails and blocks. If precision / rigidity is required, select 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.

Unit Price



Part Number

- 175 (L Type Greased) SSE2BS10G - 175 (G Type Greased)

Alternative grease types available. EF P.531

н	L	Stainless Steel				n Steel			
••		High Grade S		d Grade		Grade	Standar		
		SSEBS	SSE2BS	SSEBSZ	SSE2BSZ	SEBS	SE2BS	SEBSZ	SE2BSZ
	40		-		-		-		-
	55								
	70								
8	85								
٠.	100								
	115								
10									
_	130						-		-
	35		-		-				
	55		-		-		-		-
	75								
	95								
	115								
	135								
10	155								
	175								
	195								
	215								
	235								
	255								
_	275								
	45		-		-		-		-
	70		-		-		-		-
	95								
	120								
	145								
	170								
	195								
	220								
	245								
13	270			_					
	295								
	320								
	345								
	370								
	395								
	420								
	445								
	470								
	70		-		-		-		-
	110								
	150								
	190								
	230								
	270								
	310								
6	350								
	390								
	430								
	470								
	510								
	550								
	590								
	630								
	670								

	L Dimension Configurable Type (1mm Increment)														
ľ			Unit Price												
	н		Stainle	ss Stee	I	Carbon Steel									
	п	High (Grade	Standar	d Grade	High (Grade	Standard Grad							
		SSEBSL	SSE2BSL	SSEBSLZ	SSE2BSLZ	SEBSL	SE2BSL	SEBSLZ	SE2BSL						
	8														
	10														
	13														
	16														

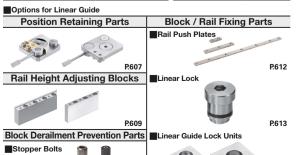
For calculation of L Dimension Configurable Type (1mm Increment), add the above amount to the unit price of the Selectable Type longer than, and closest to this L Dimension Configurable Type.



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

Alterations	Code	Spec.
Tapped Hole	MC	Changes the rail mounting
Rail End Cut LLC RLC L N N L Rail is cut with the product ID facing out (datum on other side).	Left End Cut LLC Right End Cut RLC	Cuts rail ends. Drdering Code LLC H L Cut N 10 2.5 13 5 5 16 10 Papplicable to Selectable Type only. Overall length will be shorter by cutting. What applicable to H8.
3-Block Specifications	В3	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: SSEBS10-120-83
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: SSEBS16-190-B4

Add	litional Block P	rice (Same Pri	ce for High/Sta	andard Grade)	Selectable Shortest Rail Length for B3/8					
н	B3: Pric	e Adder	B4: Pric	e Adder	н	B3	B4			
п	Stainless Steel	Carbon Steel	Stainless Steel	Carbon Steel	п	(3-block)	(4-block)			
8					8	85	100			
10 13					10	95	135			
13					13	120	145			
16					16	150	190			









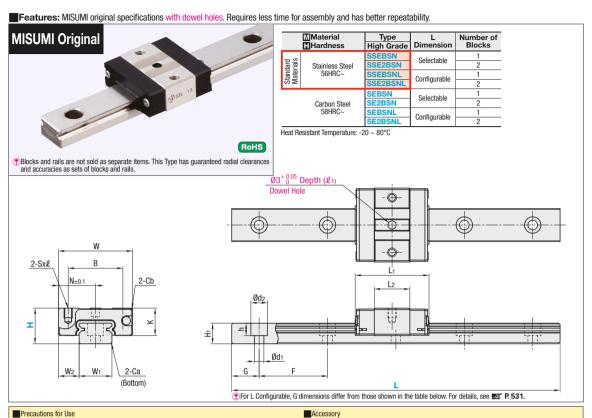
Short Blocks with Dowel Holes, Light Preload

= For customers selecting MISUMI original specifications =

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

Stainless Steel

Carbon Steel



Blocks are equipped with retainers (wire) to prevent balls from falling off. For how to handle the blocks, see E 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).

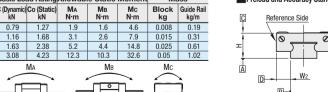
Minor bending of the rail will be adjusted after being mounted and will not affect the performance Accessory

· H8 comes with cap screws (M2x6).

Filled with Lithium soap based grease (Multemp Grease PS2 by Kyodo Yushi Co., Ltd.). · For operating life calculation, see E P. 527.
· For operating life calculations, use our free calculation software from http://download.misumi.jp/

Part Number			Block Dimension					Dowel Hole I	Guide Rail Dimension									
Type H		L	w	L ₁	В	Sxl	L2	K	Cb	N	(£1)	W ₁	W2	H ₁	Ca	Counterbored Hole d1xd2xh	F	G
Dimensions in () are for 2-Block Type.	8	40~130 (55)	17	19.6	12	M2x2.5	9.6	6.5	0.3	8.5	2	7	5	4.7	0.3	2.4x4.2x2.3	15	5
Stainless Steel Standard Specifications SSEBSN SEBSN SEBSN	10	35~275 (75)	20	22.9	15	МЗхЗ	11.9	7.8	0.3	10	2.5	9	5.5	5.5	0.3	3.5x6x3.5	20	7.5
SSE2BSN SE2BSN SSEBSNL SEBSNL	13	45~470 (95)	27	27	20	M3x3.5	13	10	0.5	13.5	3	12	7.5	7.5	0.5	3.5x6x4.5	25	10
SSE2BSNL SE2BSNL	16	70~670	32	32 7	25	M3x4	17 7	12	0.5	16	4	15	8.5	9.5	0.5	3 5x6x4 5	40	15

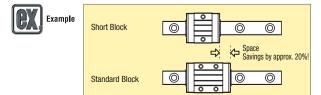
						kgf=N	x0.101972
	Basic Lo	ad Rating	Allowab	le Static	Moment	Ma	ass
Н	C (Dynamic) kN	Co (Static) kN	M _A N·m	M _B N·m	Mc N·m	Block kg	Guide Rail kg/m
8	0.79	1.27	1.9	1.6	4.6	0.008	0.19
10	1.16	1.68	3.1	2.6	7.9	0.015	0.31
13	1.63	2.38	5.2	4.4	14.8	0.025	0.61
16	3.08	4.23	12.3	10.3	32.6	0.05	1.02

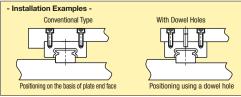


Pre	load and Accurac	y Standards	S
Ç	Reference Side		Radial Clea
-	10	0	Height H To
Ξĺ	10 5	7	Pair Variation
+	$\overline{}$		Width W ₂ T
À			Pair Variation
	D - W2	-	Running Paral
	B⊢		Running Paral

6	Specifications	Light Preload, High Grade
	Radial Clearance	-3~0
	Height H Tolerance	±20
	Pair Variation of Height H	15
	Width W ₂ Tolerance	±25
	Pair Variation of Width W2	20
	Running Parallelism of Plane C against Plane A	See
	Running Parallelism of Plane D against Plane A	P. 525

Unit: µm





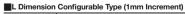


Part Number

175 (L Type Greased) SSE2BSN10G - 175 (G Type Greased) Alternative grease types available.

E P.531

			33 01661	Carbo	Julia
		SSEBSN	SSE2BSN	SEBSN	SE2BSN
	40		-		-
	55		-		-
	70				
8	85				
	100				
	115				
	130				
	35		-		-
	55		-		-
	75		-		-
	95				
	115				
	135				
10	155				
	175				
	195				
	215				
	235				
	255				
	275				
	45		-		-
	70		-		-
	95		-		-
	120				
	145				
	170				
	195				
	220				
	245				
13	270				
	295				
	320				
	345				
	370				
	395				
	420				
	445				
	470				
	70		-		-
	110		-		-
	150				
	190				
	230				
	270				
	310				
	350				
16	390				
	430				
	470				
	510				
	550				
	590				
	630				
	000				



		Unit	Price	
Н	Stainles	ss Steel	Carbo	n Steel
	SSEBSNL	SSE2BSNL	SEBSNL	SE2BSNL
8				
10				
13				
16				

The state of the 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.



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

Alterations	Code	Spec.
Tapped Hole	MC	Changes the rail mounting holes H MC 8 M3
Rail End Cut	Left End Cut	Cuts rail ends. <u>Ordering Code </u> LLC H
Rail is cut with the product ID facing out (datum on other side).	Right End Cut RLC	Applicable to Selectable Type only. Overall length will be shorter by cutting. Not applicable to H8. Not applicable to L35 of H10 and L45 of H13.
3-Block Specifications	В3	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: SEBSN10-135-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: SEBSN16-670-B4

Ad	ditional Bl	ock Price						
н	B3: Pric	e Adder	B4: Price Adder					
п	Stainless Steel	Carbon Steel	Stainless Steel	Carbon Steel				
8								
10								
13								
16								

	Se	Selectable Shortest Rail Length for B3/B4											
er Steel	н	B3 (3-block)	B4 (4-block)										
	8	85	100										
	10	95	135										
	13	120	145										
	16	150	100										





Wide Standard Blocks, Light Preload / Slight Clearance





Type
Light Preload Slight Clearance
High Grade Standard Grade MMaterial Hardness Blocks electable 56HBC~ SSFBMI 7 SEBM SE2BM SE2BMZ

12 Ød2 Ød1 2-Ca • 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 of
- For how to handle the blocks, see **PF P. 525.** Radial clearances and accuracies are not guaranteed if the blocks and rails are interchanged
- from the original set combinations The first of the Combinations.

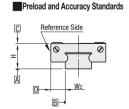
 Straight grooves are provided on datum planes.Be sure to match the datum lines when using.
 Rails cannot be connected end to end.
 The accuracy of Linear Guides is guaranteed after mounting the rail <u>after fastening screws on the rail and pushing it onto</u>
- the datum plane).

 Minor bending of the rail will be adjusted after being mounted and will not affect the performance.
- Accessory

 · H8 comes with cap screws (M2x6).
- ■Others
 Filled with Lithium soap based grease (Multemp Grease PS2 by Kyodo Yushi Co., Ltd.).
 For operating life calculation, see 歐 P. 527.
- For operating life calculations, use our free calculation software from http://download.misumi.jp/mol/fa_soft.html.

	Part Number			Block Dimension							Guide Rail Dimension							
	Туре	Н	L	w	L ₁	В	С	s	L2	K	Cb	W ₁	W 2	H ₁	Ca	Counterbored Hole d1xd2xh	F	G
Stainless Steel	are for 2-Block Type.	8	40~130 (70)	24	23.6	19	8	М3	13.6	6.5	0.3	7	8.5	4.7	0.3	2.4x4.2x2.3	15	5
SSEBM SSE2BM	SSEBMZ SSE2BMZ	10	35~275 (95)	31	30	24	10	M4	19	7.8	0.3	9	11	5.5	0.3	3.5x6x3.5	20	7.5
SSEBML SSE2BML	SSEBMLZ SSE2BMLZ	13	45~470 (120)	38	33.9	31	12	M4	19.9	10	0.5	12	13	7.5	0.5	3.5x6x4.5	25	10
Carbon Steel SEBM	SEBMZ	16	70~670 (150)	44	42.4	36	16	M4	27.4	12	0.5	15	14.5	9.5	0.5	3.5x6x4.5	40	15
SE2BM SEBML SE2BML	SE2BMZ SEBMLZ SE2BMLZ	20	100~700 (160)	54	50	46	25	M5	34.6	15	0.5	20	17	11	0.5	6x9.5x5.5	60	20

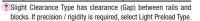
					kgf=N	x0.101972		
Basic Loa	ad Rating	Allowab	le Static	Moment	Mass			
C (Dynamic) kN	Co (Static) kN	Ma N∙m	M _B N·m	Mc N·m	Block kg	Guide Rail kg/m		
0.9	1.5	4.1	4.1	5.2	0.015	0.19		
1.5	2.5	5.1	5.1	10.2	0.03	0.31		
2.2	3.3	8.8	9.5	16.1	0.05	0.61		
3.6	5.4	21.6	23.4	39.6	0.09	1.02		
5.2	8.5	48.4	48.4	86.4	0.17	1.65		
	C (Dynamic) kN 0.9 1.5 2.2 3.6	C (Dynamic) Co (Static) kN 0.9 1.5 1.5 2.5 2.2 3.3 3.6 5.4	C (Dynamic) Co (Static) MA N·m 0.9 1.5 4.1 1.5 2.5 5.1 2.2 3.3 8.8 3.6 5.4 21.6	C (Dynamic) Co (Static) MA N·m N·m 0.9 1.5 4.1 4.1 1.5 2.5 5.1 5.1 2.2 3.3 8.8 9.5 3.6 5.4 21.6 23.4	kN kN N·m N·m N·m 0.9 1.5 4.1 4.1 5.2 1.5 2.5 5.1 5.1 10.2 2.2 3.3 8.8 9.5 16.1 3.6 5.4 21.6 23.4 39.6	Basic Load Rating Allowable Static Moment Mac		



*One size larger screws. Enhanced

assembly and fastening strength.

		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 W ₂ Tolerance	±25	±25		
Pair Variation of Width W2	20	40		
Running Parallelism of Plane C against Plane A	Coo B	E2E		
Running Parallelism of Plane D against Plane A	See P. 525			



= For customers selecting MISUMI original specifications =

Stainless Steel

High Grade Standard Grade

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

Carbon Steel

High Grade Standard Grade



Part Number

SSEBM10 - 275 - **75** (L Type Greased) ●SSEBM10L SSEBM10G - 75 (G Type Greased)

Alternative grease types available. **₽**₹ P531





Part Number - L - (MC, RLC, LLC, B3, B4) SSE2BM16 - 430

Alterations Code Spec. Tapped Hole Changes the rail mounting holes from counterbored holes to 10 M4 tanned holes Cuts rail ends. Rail End Cut Left End Cut Ordering Code LLC [Engraving] LN Applicable to Selectable Type only. Right End Cut Rail is cut with the product Overall length will be shorter by cutting.

Not applicable to H8/20

Not applicable to L35 of H10 and L45 of H13. RLC ID facing out (datum on other side). Add 2 blocks to 1-block product to ship as 3-block separate 3-Block Specifications **B3** See "Selectable Shortest Rail Length" for details. Selection Example: SEBM10-275-B3 Add 3 blocks to 1-block product to ship as 4-block separate Tem.
There are restrictions for the L dimension length.
See "Selectable Shortest Rail Length" for details. 4-Block Specifications Selection Example: SEBML13-275-B4

Addit	ional Block Pri	ce (Same Price	Selec	table Shortest Rai	Length for B3		
Н		e Adder Carbon Steel	B4: Pric Stainless Steel	e Adder Carbon Steel	н	B3 (3-block)	B4 (4-block
8					8	100	130
10					10	115	155
13					13	145	195
16					16	230	270
20					20	220	280

Options for Linear Guide Position Retaining Parts







Linear Guide Lock Units



Carbon Steel High Grade | Standard Grade | High Grade | Standard Grade





To Calculation of L Dimension Configurable Type (1mm Increment), add the above amount to the

■ L Dimension Configurable Type (1mm Increment)

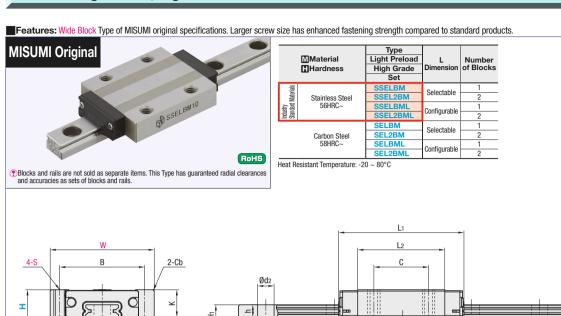
Unit Price

unit price of the Selectable Type longer than, and closest to this L Dimension Configurable Type.

Wide Long Blocks, Light Preload

= For customers selecting MISUMI original specifications =

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



Ød1

- *Blocks are equipped with retainers (wire) to prevent balls from falling off. For how to handle the blocks, see ** P. 525.

W₁

- 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
- Minor bending of the rail will be adjusted after being mounted and will not affect the performance.

Accessory

· H8 comes with cap screws (M2x6).

Filled with Lithium soap based grease (Multemp Grease PS2 by Kyodo Yushi Co., Ltd.).

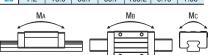
· For operating life calculation, see **F P. 527**.

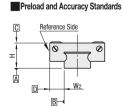
• For L Configurable, G dimensions differ from those shown in the table below. For details, see ► P. 531.

For operating life calculations, use our free calculation software from http://download.misumi.jp/ mol/fa soft.html.

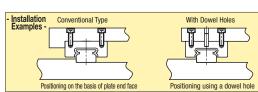
Part Number					Bloc	k Di	men	sion				G	uide	Rail	Dimension		
Туре	н	L	w	L ₁	В	С	s	L2	K	Cb	W ₁	W ₂	H1	Ca	Counterbored Hole d1xd2xh	F	G
• Dimensions in () are for 2-Block Type.	8	40~130 (100)	24	32	19	13	М3	22	6.5	0.3	7	8.5	4.7	0.3	2.4x4.2x2.3	15	5
Stainless Steel	10	55~275 (115)	31	40	24	16	M4	29	7.8	0.3	9	11	5.5	0.3	3.5x6x3.5	20	7.5
Standard Specifications Carbon Steel SSELBM SELBM SSEL2BM SEL2BM	13	70~470 (120)	38	45.8	31	20	M4	31.8	10	0.5	12	13	7.5	0.5	3.5x6x4.5	25	10
SSELBML SELBML SSEL2BML SEL2BML	16	110~670 (150)	44	58.3	36	25	M4	43.3	12	0.5	15	14.5	9.5	0.5	3.5x6x4.5	40	15
	20	160~700 (220)	54	67.7	46	30	M5	52.3	15	0.5	20	17	11	0.5	6x9.5x5.5	60	20

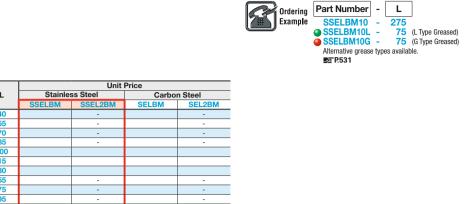
kgf=Nx0.101972							
	Basic Lo	ad Rating	ating Allowable Static Moment				ass
Н	C (Dynamic) kN	Co (Static) kN	M _A N∙m	M _B N∙m	Mc N·m	Block kg	Guide Rail kg/m
8	1.6	2.4	7.5	7.5	9.0	0.016	0.19
10	2.2	3.7	12.3	12.3	13.0	0.03	0.31
13	3.5	5.3	24.5	26.4	32.3	0.06	0.61
16	5.8	8.7	57.8	62.6	67.6	0.10	1.02
20	7.2	13.5	80.7	80.7	138.2	0.18	1.65





	Unit: µm
Specifications	Light Preload, High Grade
Radial Clearance	-3~0
Height H Tolerance	±20
Pair Variation of Height H	15
Width W ₂ Tolerance	±25
Pair Variation of Width W2	20
Running Parallelism of Plane C against Plane A	See P.525
Running Parallelism of Plane D against Plane A	JUGG F. 323





	40	-	-								
	55	-	-								
	70	-	-								
8	85	-	-								
	100										
	115										
	130										
	55	-	-								
	75	-	-								
	95	-	-								
	115										
	135										
	155										
10	175				_						
	195				I I	. 14861 L	Part Number		. ,	LC, LLC, B3,	
	215				Alterat	ions	SSEL2BM1	6 - 430 -	MC	- RI	LC
	235										
	255										
	275				Alterati	one	Code			Spec.	
	70	_			Aiterati	UIIS	Oode		`	spec.	
	95	-	-		Tapped H	Hole					Н
	120	-			1			Changes the	rail mou	ntina -	8
	145				$\Box\Box$,	ПП	MC	holes from c	ounterbo	red holes	10
	170				\ \			to tapped ho	les.		16
	195			_							20
	220				Dail Fast	0.4					
	245				Rail End	Cut		Cuts rail end			
13	270			LLC		RLC	Left End Cut	Ordering Code	LLC		
10	295			97	Engraving	ll than	LLC	Н	L Cut	N	
	320			ω	111			10	2.5		
	345			LI	V	N L		13 16	5 10	5	
	370			Dell	in not contain.	Lla a	Right End Cut				-
	395				is cut with luct ID facin		RLC	Applicable	e to Selei	ctable Type onl be shorter by	ly. cuttina
	420				um on othe		I NLC	⊗Not applic	cable to F	18/20	cutung.
	445			(uati	uiii oii oillei	siue).		0			
	470							Add 2 blocks	e to 1_blo	ck product to s	hin ac '
	110	-	-					separate iter	n.	ck product to a	niip ao c
	150			3-	-Block Speci	fications	B3	There are res	strictions for t	he L dimension lengt	th.
	190							See "Sele	ctable Sho	ortest Rail Lengtl SELBM8-130-B	h" for de
	230							Selection	Example.	DELDIVIO- I DU-D	3
	270										
	310							Add 3 blocks separate iter	s to 1-blo	ck product to s	ship as 4
	350			4-	-Block Speci	fications	B4	There are res	trictions for t	he L dimension lengt	th.
16	390				Bioon opooi			See "Selec	table Short	est Rail Lenoth" 1	for detail
	430							Selection E	xample: SS	SELBML16-630-E	34
	470										
	510			Ad	ditional Blo				Select	able Shortest Rail	I Length 1
	550			н		e Adder	B4: Pric		н	B3	
	590				Stainless Steel	Carbon Steel	Stainless Steel	Carbon Steel		(3-block)	(4-k
	630			8			-	-	8	115	
	670			10					10	155	1
	160	-	-	13					13	170	2
	220			16					16	230	2
	280										
	340			20					20	280	3
20	400			■On	tions for L	inear Guid	Α				
	460							Di-	alr / D	ail Fiviran	. Da
	520				Position	netainin	y Parts			ail Fixing	Par
	580							Rail F	Push Pl	ates	
	640	I			(Mar)			1			

Ad	ditional Blo	ck Price			Selectable Shortest Rail Length for B3/B4					
н		Price Adder B4: Price Adder		н	B3	B4				
	Stainless Steel	Carbon Steel	Stainless Steel	Carbon Steel		(3-block)	(4-block)			
8			-	-	8	115	-			
10					10	155	195			
13 16					13	170	220			
16					16	230	270			
20					20	280	340			

	Unit Price									
Н	Stainle	ss Steel	Carbon Steel							
	SSELBML	SSEL2BML	SELBML	SEL2BML						
8										
10										
13										
16										
20										

TFor 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

16					16	230	270		
20					20	280	340		
Ор	tions for L	inear Guid	е						
F	Position	Retainin	g Parts	BI	ock / R	ail Fixing	Parts		
				Rai	Push Pl	ates			
		6	6			25.50	S - 5 - 5		
P.612									
			P.6		91	91			
_		A I: I:							
Ka	il Height	Adjustii	ng Block	S Line	ear Lock				
	ARK	181818					P.613		
			P.6						
Bloc	k Derailm	nent Preve	ention Par	ts Line	ear Guide	Lock Units			
St/	nnor Polt								

Add 2 blocks to 1-block product to ship as 3-block

Add 2 blocks to 1-block product to snip as 3-bloc separate item.

There are restrictions for the L dimension length.

See "Selectable Shortest Rail Length" for details.

Selection Example: SELBM8-130-B3

Add 3 blocks to 1-block product to ship as 4-block Separate item.

There are restrictions for the L dimension length.

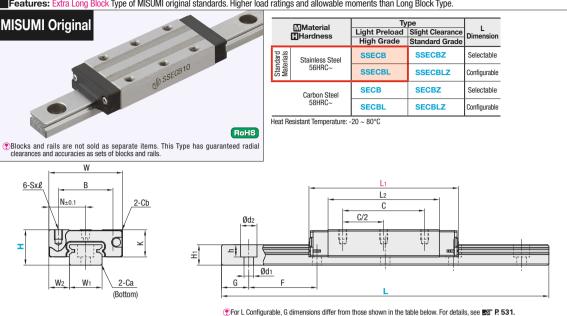
See "Selectable Shortest Rail Length" for details.

Selection Example: SSELBML16-630-B4

10 M4

Extra Long Blocks, Light Preload / Slight Clearance

Features: Extra Long Block Type of MISUMI original standards. Higher load ratings and allowable moments than Long Block Type.



- Precautions for Use

 Blocks are equipped with retainers (wire) to prevent balls from falling off. For how to handle the blocks, see

 P525.
- blocks, see **ET B25.5**.

 **Padial 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.

 **Palis 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.

Accessory
• H8 comes with cap screws (M2x6).

- Uniters

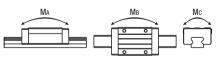
 Filled with Lithium soap based grease (Multemp Grease PS2 by Kyodo Yushi Co., Ltd.).

 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.

Pa	Part Number Block Din						Block Dimension Dowel Hole Dimension						Guide Rail Dimension								
Туре Н		L	w	L ₁	В	С	Sxl	L2	К	Cb	N	C2	(£1)	W ₁	W2	H ₁	Ca	Counterbored Hole d1xd2xh	F	G	
Stainless Steel Standard Specifications		8	40~130	17	37.5	12	20	M2x2.5	27.5	6.5	0.3	8.5	20	2	7	5	4.7	0.3	2.4x4.2x2.3	15	5
SSECB SSECBL	SSECBZ SSECBLZ	10	55~275	20	49.6	15	26	М3х3	38.6	7.8	0.3	10	26	2.5	9	5.5	5.5	0.3	3.5x6x3.5	20	7.5
Carbon Steel SECB	SECBZ	13	70~470	27	54.8	20	30	M3x3.5	40.8	10	0.5	13.5	30	3	12	7.5	7.5	0.5	3.5x6x4.5	25	10
SECBL	SECBLZ	16	110~670	32	70.3	25	40	M3x4	55.3	12	0.5	16	40	4	15	8.5	9.5	0.5	3.5x6x4.5	40	15

						kgf=Nx	0.101972
	Basic Lo	Ma	ass				
Н	C (Dynamic)	Co (Static)	MA	MB	MC	Block	Guide Rail
	kN	kN	N⋅m	N⋅m	N⋅m	kg	kg/m
8	1.5	3.3	10.1	10.1	12.4	0.02	0.19
10	2.5	5.0	18.8	18.8	23.7	0.04	0.31
13	3.6	7.6	34.0	34.0	47.3	0.07	0.61
16	6.9	13.5	80.7	80.7	104.3	0.12	1.02



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 W ₂ Tolerance	±25	±25		
Pair Variation of Width W2	20	40		
Running Parallelism of Plane C against Plane A	Coo E	E 2 E		
Running Parallelism of Plane D against Plane A	See P. 525			

Slight Clearance Type has clearance (Gap) between rails and blocks. If precision / rigidity is required, select Light Preload Type.

Table of Comparison with Standard Blocks

- Shorter block length than Standard Type 2-Block.
- Basic load rating C (dynamic) is enhanced up to 192% compared to 1 Block Type. H dimension can be reduced by using a long block.
- Basic load rating C (static) is equivalent or higher compared to 1 Block/2 Block Type. 2 Block Type can make guide block length more compact.

		Bloc	k O.A.L	. (L1)		Basic	Load R	(Dynami	c) kN	Basic Load Rating Co (Dynamic) kN					
			Extra	ra Long 1 Block				Extra	Long 1				Extra Long 1 Block		
Н	Standard 1 Block	Standard 2 Block		Compared to Standard 1 Block	Compared to Standard 2 Block	Standard 1 Block	Standard 2 Block		Compared to Standard 1 Block	Compared to Standard 2 Block	Standard 1 Block	Standard 2 Block		Compared to Standard 1 Block	Compared to Standard 2 Block
8	23.6	47.2	37.5	+13.9	-9.7	0.9	1.8	1.5	167%	83%	1.5	3	3.3	220%	110%
10	30	60	49.6	+19.6	-10.4	1.5	3	2.5	167%	83%	2.5	5	5	200%	100%
13	33.9	67.8	54.8	+20.9	-13	2.2	4.4	3.6	164%	82%	3.3	6.6	7.6	230%	115%
16	42.4	84.8	70.3	+27.9	-14.5	3.6	7.2	6.9	192%	96%	5.4	10.8	13.5	250%	125%

= For customers selecting MISUMI original specifications =

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

Unit Price



Ordering Part Number 75 (L Type Greased) SSECB10G - 75 (G Type Greased)

Alternative grease types available **EX** P.531

	Selectable			Price			
н		Stainles	s Steel	Carbo	n Steel		
	L			SECB	SECB7		
	40	SSECE	JOLODZ	SEOD	JEODE		
	40						
	55		Stainless Steel Carbon Stee				
	70						
8	85						
	100						
	115						
	130						
	55						
	75						
	95						
	115						
	135						
	155						
10	175						
	195						
	215						
	235						
	255						
	275						
	70						
	95						
	400						
	120						
	145						
	170						
	195						
	220						
40	245						
13	270						
	295						
	320						
	345						
	370						
	395						
	420						
	445						
	470						
	110						
	150						
	190						
	230						
	270						
	310						
	350						
16	390						
	430						
	470						
	510						
	550						
	590						
	630						
	670						

L Dimension Configurable Type (1mm Increment)

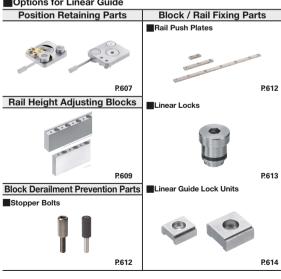
		Unit	Price	
Н	Stainles	ss Steel	Carbo	n Steel
	SSECBL	SSECBLZ	SECBL	SECBLZ
8				
10				
13				
16				
●Famous lands #famous	(D'			harrie amazaniak ka dhar

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.



Alterations	Code	Spec.
Tapped Hole	MC	H MC 8 M3 M3 M6 M6 M6 M6 M6 M6
Rail End Cut LLC RLC [Sopping] N L Rail is cut with the product ID facing out (datum on other side).	Left End Cut LLC Right End Cut RLC	Cuts rail ends. prdering Code LLC H L Cut N 10 2.5 13 13 5 5 16 10 10 ②Applicable to Selectable Type only. ②Overall length will be shorter by cutting. ⊗Not applicable to H8. Not applicable to H8.

Options for Linear Guide



Standard Blocks, Light Preload / Slight Clearance

Similar Products Comparison Points The industry standard Wide Rails, Standard Blocks. Select from Light Preload Types with superior precision and rigidity.



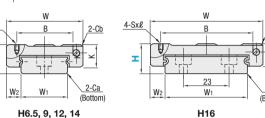
	Material				Number		
	Hardness	Light F	Preload	Slight Clearance	Dimension	of	
	unaruness	High Grade	Precision Grade	Standard Grade	Dillicitatori	Blocks	
Industry Standard Materials		SSEBW	SSEBWV	SSEBWZ	Selectable	1	
	Stainless Steel	SSE2BW	SSE2BWV	SSE2BWZ	Selectable	2	
stry	56HRC~	SSEBWL	SSEBWLV	SSEBWLZ	Canfinuable	1	
Stan		SSE2BWL	SSE2BWLV	SSE2BWLZ	Configurable	2	
		SEBW	SEBWV	SEBWZ	Selectable	1	
	Carbon Steel	SE2BW	SE2BWV	SE2BWZ	Selectable	2	
	58HRC~	SEBWL	SEBWLV	SEBWLZ	Configurable	1	
		SE2BWL	SE2BWLV	SE2BWLZ	Configurable	2	

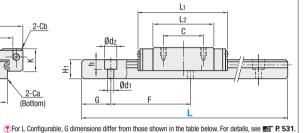
Heat Resistant Temperature: -20 ~ 80°C • H6.5 is for stainless steel only.

H6.5 has no precision grade.

and accuracies as sets of blocks and rails.







The number in () is the Number of tapped holes for H6.5.

- Precautions for Use
- Blocks are equipped with retainers (wire) to prevent halls from falling off For how to handle the blocks, see **FF P 525.**Radial clearances and accuracies are not quaranteed 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

Accessory
- H6.5 comes with Number 0, Class 1 Phillips button head screws (M2.5x7).

- Others

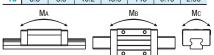
 Filled with Lithium soap based grease (Multemp Grease PS2 by Kyodo Yushi Co., Ltd.).

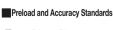
 For operating life calculation, see 歐 P, 527.
- For operating life calculations, use our free calculation software from http://download.misumi.jp/mol/fa_soft.html.

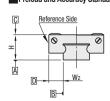
tilo dataili piarioj.		
Minor bending of the rail	vill be adjusted after being mounted and will not affect the performar	ice.

	Part Number					Block Dimension Guide Rail Dir											Dimension	i	
	Туре		н	L	w	Lı	В	С	Sxℓ	L2	ĸ	Cb	W ₁	W2	H ₁	Ca	Counterbored Hole d1xd2xh	F	G
• Dimensions in () are for 2-Block Type.		6.5	50~130 (70)	17	21	13	-	M2.5x1.5	13.3	5	0.3	10	3.5	4	0.3	3x5x1.6	20	5
Stainless Steel Industry Standard Specifications SSEBW	SSEBWV	SSEBWZ	9	50~290 (110)	25	31.1	18	12	M2.6x2.5	20.1	7	0.3	14	5.5	5.2	0.5	3.5x6x3.2	30	10
SSE2BWL SSE2BWL	SSE2BWLV SSE2BWLV	SSE2BWZ SSEBWLZ SSE2BWLZ	12	50~290 (110)	30	38	21	12	M2.6x3	27	9	0.3	18	6	7.5	0.5	3.5x6x4.5	30	10
Carbon Steel SEBW SE2BW SEBWL	SEBWV SE2BWV SEBWLV	SEBWZ SE2BWZ SEBWLZ	14	70~470 (150)	40	44.3	28	15	M3x3.5	30.1	11	0.5	24	8	8	0.5	4.5x8x4.5	40	15
SE2BWL	SE2BWLV	SE2BWLZ	16	70~670	60	55	45	20	M4y4 5	40	13	0.5	42	q	9.5	0.5	4 5v8v4 5	40	15

							kgf=Nx	0.101972	
		Basic Lo	ad Rating	Allowab	le Static	Mass			
H	1			Ma N•m	MB N•m	Mc N·m	Block kg	Guide Rail kg/m	
6.	5	0.5	0.9	2.0	2.0	4.0	0.006	0.28	
9)	1.4	2.2	7.8	7.8	15.5	0.02	0.50	
13	2	2.3	3.7	13.7	16.3	30.4	0.04	0.96	
14	4	3.5	5.3	20.6	22.3	52.1	0.08	1.40	
10	6	5.8	8.5	40.2	43.6	148	0.15	2.95	







			Unit: µm
Specifications	Light Preload, High Grade	Light Preload, Precision Grade	Slight Clearance, Standard Grade
Radial Clearance	-3-	~0	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 W2	20	10	40
Running Parallelism of Plane C against Plane A		See P. 52	5
Running Parallelism of Plane D against Plane A	· '	JCC 1. J2	
@ 01'-1-1 01 T 11 (0	A 1 1	the second later	L.

Slight Clearance Type has clearance (Gap) between rails and blocks. If precision / rigidity is required, select Light Preload Type.

= For customers using industry standard products =

110

130

80 110

> 140 200

70

150

190

270

470

590

6.5

12

14 16

■L Dimension Configurable Type (1mm Increment)

Stainless Steel

SSEBWLZ

Unit Price

SSE2BWLZ

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.

Carbon Steel

SEBWLZ

SE2BWL SE2BWLZ

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

Carbon Steel



SSEBW12 ●RSEBW12

- 200 - 200 (LTBC Plating) - 200 (L Type Greased) (G Type Greased) •SSEBW12L - 200 •SSEBW12G - 200

LTBC Plating and various Grease types available as alternative P.531

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

Alterations	Code	Spec.
Tapped Hole	MC	Changes the rail mounting holes from counterbored holes to tapped holes. H MC 6.5 M3 M4 12 M4 16 M5
Rail End Cut	Left End Cut LLC	Cuts rail ends. Ordering Code LLC H L Cut N 9 5 12 5
Rail is cut with the product ID facing out (datum on other side).	Right End Cut RLC	14 5 10 10 10 10 10 10 10 10 10 10 10 10 10
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	В3	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: SEBW9-260-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: SEBWL14-465-B4

6.5

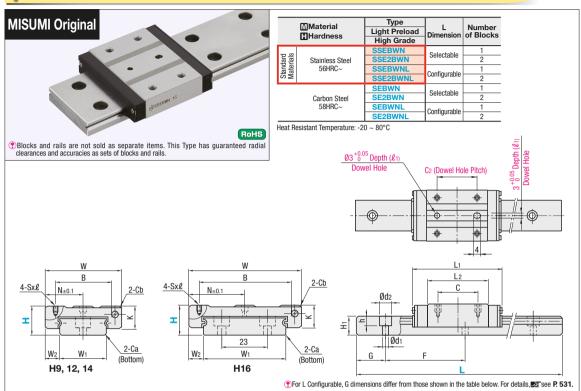
Additional Block Price (Same Price for Standard/Same Grade) Selectable Shortest Rail Length for B3/B4 B3: Price Adder B4: Price Adder B4 (4-block) В3 (3-block) Stainless Steel | Carbon Steel | Stainless Steel | Carbon Steel 90 110 6 140 170 12 12 140 220 14 14 190 230 16 16 230 270

Options for Linear Guide



Standard Blocks with Dowel Holes, Light Preload

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



- Precautions for Use
- Blocks are equipped with retainers (wire) to prevent balls from falling off For how to handle the blocks, see ► 7.525.
- Por Individual intermetal interme

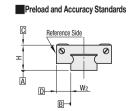
- ■Others

 Filled with Lithium soap based grease (Multemp Grease PS2 by Kyodo Yushi Co., Ltd.).

 For operating life calculation, see 歐 P. 527,
- For operating life calculations, use our free calculation software from http://download.misumi.jp/mol/fa_soft.html.

Part Number				Block Dimension									ensions	Guide Rail Dimension						
Tuno	н	L	w	L ₁	В	С	Sxℓ	L2	к	Cb	N	C ₂	(£1)	18/4	W ₂	H ₁	Са	Counterbored Hole	F	G
Туре	п		**				SXL	L2	,	CD	IN.	U 2	(£1)		VV 2	m	Ca	d1xd2xh	-	G
①Dimensions in () are for 2-Block	9	50~290 (110)	25	31.1	18	12	M2.6x2.5	20.1	7	0.3	12.5	12	2.5	14	5.5	5.2	0.5	3.5x6x3.2	30	10
Type. Stainless Steel Standard Specifications SEBWN	12	50~290 (110)	30	38	21	12	M2.6x3	27	9	0.3	15	12	2.5	18	6	7.5	0.5	3.5x6x4.5	30	10
SSE2BWN SSE2BWN SSEBWNL SE2BWNL SE2BWNL	14	70~470 (150)	40	44.3	28	15	M3x3.5	30.1	11	0.5	20	15	3.5	24	8	8	0.5	4.5x8x4.5	40	15
SSE2BWNL SE2BWNL	16	70~670	60	55	45	20	M4x4.5	40	13	0.5	30	20	4	42	9	9.5	0.5	4.5x8x4.5	40	15

						kgf=Nx	0.101972		
	Basic Lo	ad Rating	Allowab	le Static	Moment	Ma	ass		
н	C (Dynamic) kN	Co (Static) kN	Ma N•m	MB N•m	Mc N·m	Block kg	Guide Rail kg/m		
9	1.4	2.2	7.8	7.8	15.5	0.02	0.50		
12	2.3	3.7	13.7	16.3	30.4	0.04	0.96		
14	3.5	5.3	20.6	22.3	52.1	0.08	1.40		
16	5.8	8.5	40.2	43.6	148	0.15	2.95		
	MA				MB		Mc		



	011111.
Specifications	Light Preloa High Grade
Radial Clearance	-3~0
Height H Tolerance	±20
Pair Variation of Height H	15
Width W ₂ Tolerance	±25
Pair Variation of Width W2	20
Running Parallelism of Plane C against Plane A	See
Running Parallelism of Plane D against Plane A	P. 525

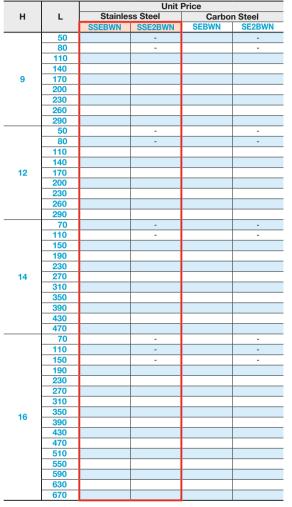
= For customers selecting MISUMI original specifications =

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

Ordering Part Number

200 (L Type Greased) 200 (G Type Greased)

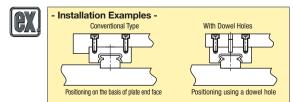
Example	SSEBWN12	-	2
 '	SSEBWN12L	-	2
	SSEBWN12G	-	2
	Alternative grease typ	es av	ail
	₽¥ P.531		



■L Dimension Configurable Type (1mm Increment)

		Unit	Price			
Н	Stainles	ss Steel	Carbo	n Steel		
	SSEBWNL	SSE2BWNL	SEBWNL	SE2BWNL		
9						
12						
14						
16						
@Females tested to the	(D'			harrie anno anno 1 ta 11a a		

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.





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

Alterations	Code	Spec.					
Tapped Hole	MC	Changes the rail mounting holes from counterbored holes to tapped holes. H MC 9 M4 12 M4 16 M5					
Rail End Cut	Left End Cut	Cuts rail ends. Ordering Code LLC H L Cut N 9 -					
		12 14 5					
L N N L	Right End Cut RLC	16					
Rail is cut with the product ID facing out (datum on other side).		 ♠ Applicable to Selectable Type only. ♠ Overall length will be shorter by cutting. ♠ Not applicable to L dimension 70 or less. 					
3-Block Specifications	В3	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: SEBWN9-200-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: SEBWNL14-420-B4					

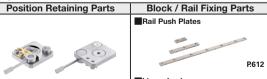
Additional Block Price

н	B3: Pric		B4: Price Adder				
	Stainless Steel	Carbon Steel	Stainless Steel	Carbon St			
9							
12							
14							
16							

Selectable Shortest Rail Length for B3/B4

	e Adder	н	B3	B4
eel	Carbon Steel	п	(3-block)	(4-block)
		9	140	170
		12	140	200
		14	190	230
		16	230	270

Options for Linear Guide



Block Derailment Prevention Parts







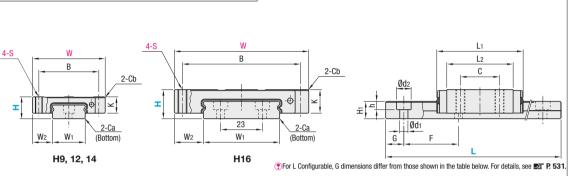
Wide Standard Blocks, Light Preload / Slight Clearance

Features: Wide Block Type of MISUMI original specifications. Larger screw size has enhanced fastening strength compared to standard products.



	Material	Ту	ре		
	⊞Hardness	Light Preload	L	Number of Blocks	
	⊡ ⊓aruness	High Grade	Standard Grade	Difficusion	OI DIOCKS
		SSEBWM	SSEBWMZ	Selectable	1
Standard Materials	Stainless Steel 56HRC~	SSE2BWM	SSE2BWMZ	Selectable	2
		SSEBWML	SSEBWMLZ	Configurable	1
ಪ≊		SSE2BWML	SSE2BWMLZ	Cornigurable	2
		SEBWM	SEBWMZ	Selectable	1
Carbon Steel 58HRC~		Carbon Steel SE2BWM SE2BWMZ 58HRC~ SERWMI SERWMI Z		Selectable	2
				Cantinumble	1
		SE2BWML	SE2BWMLZ	Configurable	2

Heat Resistant Temperature: -20 ~ 80°C



- Precautions for Use

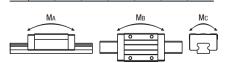
 Blocks are equipped with retainers (wire) to prevent balls from falling off.

 For how to handle the blocks, see F F. 525.
- Radial clearances and accuracies are not guaranteed if the blocks and rails are interchanged
- 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.

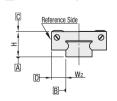
- ■Others
 Filled with Lithium soap based grease (Multemp Grease PS2 by Kyodo Yushi Co., Ltd.).
 For operating life calculation, see 歐 P. 527,
- For operating life calculations, use our free calculation software from http://download.misumi.jp/

Pa				Bloc	ck D	imen	sion				G	uide	Rail	Dimension				
Туре Н		L	w	L ₁	В	С	s	L2	K	Cb	W ₁	W ₂	H1	Ca	Counterbored Hole d1xd2xh	F	G	
Dimensions in () are for 2-Block Type. Stainless Steel Stainless Steel		9	50~290 (110)	36	31.1	29	12	M4	20.1	7	0.3	14	11	5.2	0.5	3.5x6x3.2	30	10
Standard Specifications SSEBWM SSE2BWM SSEBWML SSE2BWML	SSEBWMZ SSE2BWMZ SSEBWMLZ SSE2BWMLZ	12	50~290 (110)	40	38	33	12	M4	27	9	0.3	18	11	7.5	0.5	3.5x6x4.5	30	10
Carbon Steel SEBWM SE2BWM SEBWML	SEBWMZ SE2BWMZ SEBWMLZ	14	70~470 (150)	51	44.3	44	15	M4	30.1	11	0.5	24	13.5	8	0.5	4.5x8x4.5	40	15
SE2BWML	SE2BWMLZ	16	70~670 (190)	74	55	65	20	M5	40	13	0.5	42	16	9.5	0.5	4.5x8x4.5	40	15

						kgf=Nx	0.101972
	Basic Lo	ad Rating	Allowab	le Static	Moment	Ma	ass
Н	C (Dynamic)	Co (Static)	MA	Мв	Mc	Block	Guide Rail
	kN	kN	N⋅m	N⋅m	N⋅m	kg	kg/m
9	1.4	2.2	7.8	7.8	15.5	0.035	0.50
12	2.3	3.7	13.7	16.3	30.4	0.06	0.96
14	3.5	5.3	20.6	22.3	52.1	0.11	1.40
16	E O	0.5	40.2	42 G	140	0.2	2.05



Preload and Accuracy Standards



	Unit: µm		
Light Preload, High Grade	Slight Clearance, Standard Grade		
-3~0	0~+15		
±20	±20		
15	40		
±25	±25		
20	40		
See P. 525			
əee r. 525			
	#igh Grade -3~0 ±20 15 ±25 20		

Slight Clearance Type has clearance (Gap) between rails and blocks. If precision / rigidity is required, select Light Preload Type.

= For customers selecting MISUMI original specifications =

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



Ordering Part Number

200

200 (L Type Greased) SSEBWM12G - 200 (G Type Greased) Alternative grease types available.

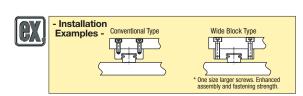
₽¥ P.531

		Unit Price										
н	L		Stainles				Carbo					
		SSEBWM	SSE2BWM	SSEBWMZ	SSE2BWMZ	SEBWM	SE2BWM	SEBWMZ	SE2BWMZ			
	50		-		-		-		-			
	80		-		-		-		-			
	110											
	140											
9	170											
	200											
	230											
	260											
	290											
	50		-		-		-		-			
	80		-		-		-		-			
	110											
	140											
12	170											
	200											
	230											
	260											
	290											
	70		-		-		-		-			
	110		-		-		-		-			
	150											
	190											
	230											
14	270											
	310 350											
	390											
	430											
	470											
	70								-			
	110		-		-		-		-			
	150		-		-		-		-			
	190		-		-		-		-			
	230											
	270											
	310											
	350											
16	390											
	430											
	470											
	510											
	550											
	590											
	630											
	670											
	Dim	ension C	Configur	able Tvr	e (1mm	Increm	ent)					

L Dimension Configurable Type (1mm Increment)

				Unit	Price			
Н		Stainles SSE2BWML	ss Steel			Carbo	n Steel	
	SSEBWML	SSE2BWML	SSEBWMLZ	SSE2BWMLZ	SEBWML	SE2BWML	SEBWMLZ	SE2BWML
9								
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.







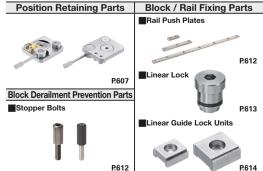
Part Number - L - (MC, RLC, LLC, B3, B4)

Alterations	Code	Spec.
Tapped Hole → → → → → → → → → → → → → → → → → → →	MC	Changes the rail mounting holes from counterbored holes to tapped holes. H MC 9
Rail End Cut LLC RLC Engraing	Left End Cut	Cuts rail ends. Ordering Code LLC
Rail is cut with the product ID facing out (datum on other side).	Right End Cut RLC	10
3-Block Specifications	В3	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: SEBWM9-290-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.

Additional Block Price (Same Price for High/Standard Grade) Selectable Shortest Rail Length for B3/B4 B3: Price Adder | B4: Price Adder

B3 B4 (3-block) (4-block) 140 170 12 140 200 14 14 190 230 16 16 230 270

Options for Linear Guide



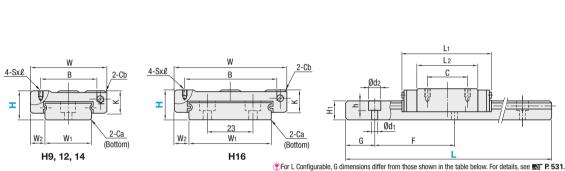
Long Blocks, Light Preload

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



	MMaterial		Type		l	Number
	⊞Hardness	Light F	Preload	Slight Clearance	Dimension	of
	⊡ naruness	High Grade	Precision Grade	Standard Grade	Difficiliation	Blocks
Industry Standard Materials		SSELBW	SSELBWV	SSELBWZ	Selectable	1
Mater	Stainless Steel	SSEL2BW SSEL2BWZ SSEL2BWZ	Selectable	2		
stry	56HRC~	SSELBWL	SSELBWLV	SSELBWLZ	Configurable	1
lndu Stan		SSEL2BWL	SSEL2BWLV	SSEL2BWLZ	Colliguatie	2
		SELBW	SELBWV	SELBWZ	Selectable	1
	Carbon Steel	SEL2BW	SEL2BWV	SEL2BWZ	Selectable	2
	58HRC~	SELBWL	SELBWLV	SELBWLZ	Configurable	1
		SEL 2BWI	SEL 2RWLV	SEL 2RWL 7	comigurable	2

Heat Resistant Temperature: -20 ~ 80°C



- Blocks are equipped with retainers (wire) to prevent balls from falling off For how to handle the blocks, see EF 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.

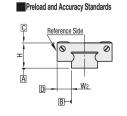
or	L	Cor	ηfiç	Jι

Filled with Lithium soap based grease (Multemp Grease PS2 by Kyodo Yushi Co., Ltd.).
 For operating life calculation, see F. 527

For operating life calculations, use our free calculation software from http://download.misumi.jp/ mol/fa_soft.html

	Part Nun	nber					В	lock	Dimensio	n					Guid	le Ra	ail Dimension		
	Туре		н	L	w	L ₁	В	С	Sxℓ	L2	K	Cb	W ₁	W2	H ₁	Ca	Counterbored Hole d1xd2xh	F	G
Stainless Steel) are for 2-Block Typ	De.	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
Industry Standard Specifications SSELBW SSEL2BW SSELBWL SSEL2BWL	SSELBWV SSEL2BWV SSELBWLV SSEL2BWLV	SSELBWZ SSEL2BWZ SSELBWLZ SSEL2BWLZ	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
Carbon Steel SELBW SEL2BW SELBWL	SELBWV SEL2BWV SELBWLV	SELBWZ SEL2BWZ SELBWLZ	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
SEL2BWL	SEL2BWLV	SEL2BWLZ	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

	kgf=Nx0.10197												
	Basic Lo	ad Rating	Moment	Mass									
Н	C (Dynamic) kN	Co (Static) kN	Ma N•m	M _B N·m	Mc N·m	Block kg	Guide Rail kg/m						
9	1.7	4.0	12.1	12.1	28.8	0.035	0.50						
12	2.6	5.3	20.2	20.2	49.5	0.06	0.96						
14	3.9	8.5	38.6	38.6	104.6	0.12	1.40						
16	7.2	14.3	86.0	86.0	305.2	0.23	2.95						



			Unit: µm
Specifications	Light Preload, High Grade	Light Preload, Precision Grade	Slight Clearance, Standard Grade
Radial Clearance	-3	~0	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		366 F. 323	'

Slight Clearance Type has clearance (Gap) between rails and blocks. If precision / rigidity is required, select Light Preload Type.

= 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.



Ordering Part Number

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

LTBC Plating and various Grease types available as alternative

₽₹P531

Part Number

Code

Left End Cut

LLC

Right End Cut

RLC

B3

4-Block Specifications

- L -

(MC, RLC, LLC, WC, B3, B4)

Spec.

5

10

Pair variation of Height H between 2 rails is

Specify the actual rail quantity (even

Add 2 blocks to 1-block product to ship as

See "Selectable Shortest Rail Length"

See "Selectable Shortest Rail Length"

Selection Example: SELBW12-260-B3 Add 3 blocks to 1-block product to ship as

Selection Example: SSELBW9-290-B4

nber) to order, not "pairs". Applicable to High Grade Type only. Not applicable to low temperature chrome plated products.

• Applicable to Selectable Type only.
• Overall length will be shorter by cutting

Changes the rail mounting holes from counterbored holes to tapped holes.

Cuts rail ends.

16

set within 15µm. Rails are shipped in pairs.

3-block senarate item There are restrictions for the L

dimension length.

4-block separate item. There are restrictions for the L

dimension length.

for details.

for details.

Ordering Code LLC

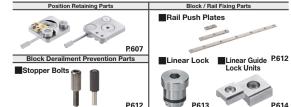
H L Cut N

						<u> </u>				
н	L		Stainles	ss Steel	Unit I		Carbo	n Steel		
		SSELBW	SSEL2BW	SSELBWZ	SSEL2BWZ	SELBW	SEL2BW	SELBWZ	SEL2BWZ	
	80		-		-		-		-	
	110									
	140									
9	170									
9	200									
	230									
	260									
	290									
	80		-		-		-		-	
	110									
	140									
12	170									
12	200									
	230									
	260									
	290									Pr
	110		-		-		-		-	Alterations
	150									
	190									
	230									Alterations
14	270									Tapped Hole
	310									
	350									
	390									
	430									Rail End Cut
_	470									LLC RLC
	110		-		-		-		-	Engraving HTTPS
	150		-		-		-		-	
	190									L N N L
	230									Rail is cut with the product
	270									ID facing out (datum on other
	310									side).
40	350									
16	390									
	430	_								
	470									Parallel Use of 2 Rails
	510									
	550 590	_								
	630									
	670									
_										
L	Dime	nsion Co	nfigurable	Type (1n	nm Increr					
			Stai	nless Ste		it Price	Carb	on Steel		3-Block Specifications
	Н	5	SELBWL	. SS	EL2BWL	SE	LBWL	SEL	2BWL	
	0	S	SELBWLZ	Z SSE	EL2BWLZ	SE	LBWLZ	SEL2	BWLZ	

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
Desition Potaining Ports

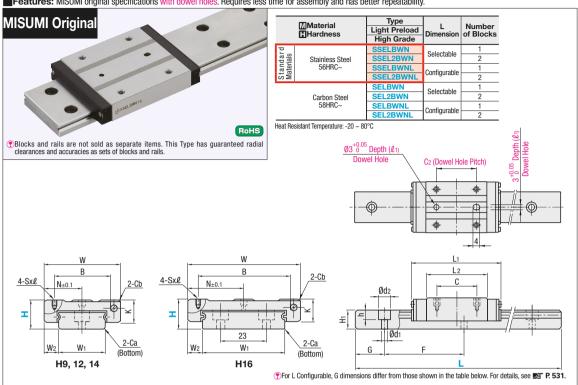


Ad	Additional Block Price (Same Price for High/Standard Grade)												
Н		e Adder Carbon Steel		e Adder Carbon Steel	н	B3 (3-block)	B4 (4-block)						
9					9	170	200						
12					12	200	260						
14					14	230	310						
16					16	270	350						

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

Long Blocks with Dowel Holes, Light Preload

Features: MISUMI original specifications with dowel holes. Requires less time for assembly and has better repeatability.



- Precautions for Use
- Blocks are equipped with retainers (wire) to prevent balls from falling off For how to handle the blocks, see F F 525.
- For now to natione the blocks, see **25:** 1.525.

 Radial clearances and accuracies are not guaranteed if the blocks and rails are interchanged from the original set combinations.

 Straight growes 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).

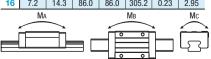
Minor bending of the rail will be adjusted after being mounted and will not affect the performance.

Others
- Filled with Lithium soap based grease (Multemp Grease PS2 by Kyodo Yushi Co., Ltd.).
- For operating life calculation, see PS2 P. 527

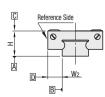
For operating life calculations, use our free calculation software from http://download.misumi.jp/mol/fa_soft.html.

Part Number	Part Number				Blo	ock l	Dimensi	on				vel H ensi			G	uide	Rai	Dimensio	'n	
Туре	н	L	w	Lı	В	С	Sxl	L2	к	Cb	N	C ₂	(£1)	W ₁	W2	H ₁	Са	Counterbored Hole	F	G
.,,,,,												•	(~ .)					d1×d2×h		
Dimensions in () are for 2-Block Type.	9	80~290 (110)	25	43.5	19	19	МЗхЗ	32.5	7	0.3	12.5	19	2.5	14	5.5	5.2	0.5	3.5x6x3.2	30	10
Stainless Steel Standard Specifications SSELBWN SELBWN	12	80~290 (110)	30	51.6	23	24	МЗхЗ	40.6	9	0.3	15	24	2.5	18	6	7.5	0.5	3.5x6x4.5	30	10
SSELBWN SSEL2BWN SSELBWNL SSEL2BWNL SSEL2BWNL	14	110~470 (150)	40	61.6	28	28	M3x3.5	47.4	11	0.5	20	28	3.5	24	8	8	0.5	4.5x8x4.5	40	15
	16	110~670 (190)	60	74.9	45	35	M4x4.5	59.9	13	0.5	30	35	4	42	9	9.5	0.5	4.5x8x4.5	40	15

							kgf=N×	0.101972	
П		Basic Lo	ad Rating	Allowab	le Static	Mass			
	Н	C (Dynamic) kN	Co (Static) kN	Ma N·m	M _B N·m	Mc N·m	Block kg	Guide Rail kg/m	
Ξ	9	1.7	4.0	12.1	12.1	28.8	0.035	0.50	
	12	2.6	5.3	20.2	20.2	49.5	0.06	0.96	
	14	3.9	8.5	38.6	38.6	104.6	0.12	1.40	
Ξ	16	7.2	14.3	86.0	86.0	305.2	0.23	2.95	



Preload and Accuracy Standards



	Unit: µ
Specifications	Light Preloa High Grade
Radial Clearance	-3~0
Height H Tolerance	±20
Pair Variation of Height H	15
Width W ₂ Tolerance	±25
Pair Variation of Width W2	20
Running Parallelism of Plane C against Plane A	See
Running Parallelism of Plane D against Plane A	P. 525

= For customers selecting MISUMI original specifications =

Н

230 290 80

270

310

390 430 470

110

150

190

> 630

14

16

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



					Example	SSELBWN12L SSELBWN12G Alternative grease t EF P.531	-	200	(L Type Greased (G Type Greased
	Stainless Steel SSELBWN SSEL2BW 00 - 00 00 00 00 00 00 00 00 00 00 00 00 00		Price						
L		ss Steel	Carbo	n Steel					
	SSELBWN	SSEL2BWN	SELBWN	SEL2BWN					
80		-		-					
110									
140									
170									
200									



Part Number - L -

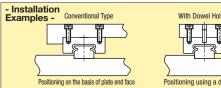
(MC, RLC, LLC, B3, B4)

Alterations	Code	Spec.
Tapped Hole	MC	Changes the rail mounting holes from counterbored holes to tapped holes. H MC 9 M4 12 M4 14 M5 16 M5 16 M5 17 M5 18 M
Rail End Cut	Left End Cut LLC	Cuts rail ends. Ordering Code LLC
Rail is cut with the product ID facing out (datum on other side).	Right End Cut RLC	14 10 10 Papplicable to Selectable Type only. Overall length will be shorter by cutting.
3-Block Specifications	В3	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: SSELBWN9-230-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: SELBW114-430-B4

■L Dimension Configurable Type (1mm Increment) Unit Price Stainless Steel Carbon Steel SELBWNL SEL2BWNL ELBWNL 12

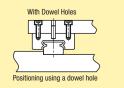
For calculation of L Dimension Configurable Type (1mm Increment), add the above amount to the unit price of the Selectable Type longer than, and closest to this L Dimension Configurable Type.







14 16

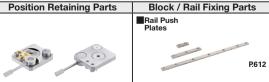


Options for Linear Guide

Additional Block Price

B3: Price Adder B4: Price Adder В3 B4 (4-block) Stainless Steel Carbon Steel Stainless Steel Carbon Steel 170 200 200 260 14 16 230 310 270

Selectable Shortest Rail Length for B3/B4



P.612

P.607

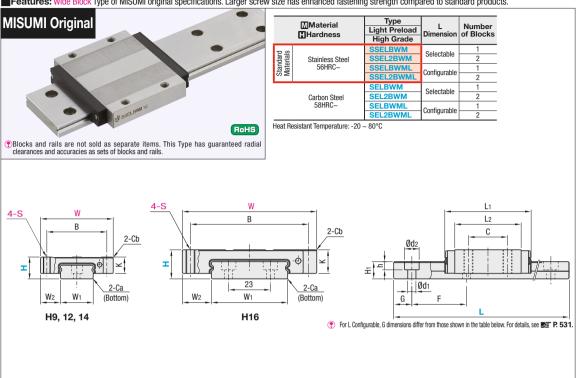
Block Derailment Prevention Parts Stopper Bolts





Wide Long Blocks, Light Preload

Features: Wide Block Type of MISUMI original specifications. Larger screw size has enhanced fastening strength compared to standard products.



- Precautions for Use

 Blocks are equipped with retainers (wire) to prevent balls from falling off.

 For how to handle the blocks, see EF P.525.
- P. Radial dearrances 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).

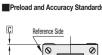
 Minor bending of the rail will be adjusted after being mounted and will not affect the performance.

	0	lth	le	r	3
$\overline{}$	E :1	la.	a	٠.	d

- Filled with Lithium soap based grease (Multemp Grease PS2 by Kyodo Yushi Co., Ltd.).
 For Operating Life Calculation, see 💌 P527
- For operating life calculations, use our free calculation software from http://download.misumi.jp/mol/fa_soft.html.

Part Number					Blo	ck D	imen	sion				(Guide	Rail	Dimension		
Tuno	н	L	w	L ₁	В	С	s	L2	к	Cb	W ₁	W ₂	H ₁	Ca	Counterbored Hole	F	G
Type Type Stainless Steel Standard Specifications SSELBWM SSEL2BWM SSEL2BWM SSEL2BWM SSELBWML SSELBWML SSELBWML SSELBWML SSELBWML SSELBWML	П		VV	' L1	- -		3	L2	, r	CD	WV1	WV2	п	Ca	d1xd2xh		G
① Dimensions in () are for 2-Block Type.	9	80~290 (110)	36	43.5	29	19	M4	32.5	7	0.3	14	11	5.2	0.5	3.5x6x3.2	30	10
© Dimensions in () are for 2-Block Type Stainless Steel Standard Specifications SSELBWM SSELBWM SSELBWML SELBWML SELBWML SELBWML SELBWML SELBWML	12	80~290 (110)	40	51.6	33	24	M4	40.6	9	0.3	18	11	7.5	0.5	3.5x6x4.5	30	10
SSELBWML SELBWML	14	110~470 (150)	51	61.6	44	28	M4	47.4	11	0.5	24	13.5	8	0.5	4.5x8x4.5	40	15
	16	110~670 (190)	74	74.9	65	35	M5	59.9	13	0.5	42	16	9.5	0.5	4.5x8x4.5	40	15

						kgf=Nx	0.101972		
	Basic Lo	ad Rating	Moment	Ma	Mass				
Н	C (Dynamic) kN	Co (Static) kN	M _A N·m	M _B N⋅m	Mc N·m	Block kg	Guide Rail kg/m		
9	1.7	4.0	12.1	12.1	28.8	0.05	0.50		
12	2.6		5.3	20.2	20.2	49.5	0.09	0.96	
14	3.9		38.6	38.6	104.6	0.16	1.40		
16	7.2	14.3	86.0	86.0	305.2	0.3	2.95		
	MA				Мв		Mc		



		Unit: µm
d Accuracy Standards	Specifications	Light Preload, High Grade
rence Side	Radial Clearance	-3~0
0	Height H Tolerance	±20
	Pair Variation of Height H	15
	Width W ₂ Tolerance	±25
	Pair Variation of Width W2	20
<u>₩2</u>	Running Parallelism of Plane C against Plane A	See
B	Running Parallelism of Plane D against Plane A	P.525

= For customers selecting MISUMI original specifications =

frame-surrounded products are compliant with the standard specifications (Stainless Steel, Light Preload, High Grade Type).



Ordering Part Number

SSFI RWM12I 200 (L Type Greased) SSELBWM12G 200 (G Type Greased) Alternative grease types available

P.531

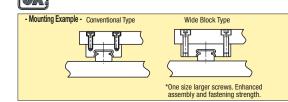
	Calaatabla		Unit	Price	
Н	Selectable L	Stainles	ss Steel	Carbo	n Steel
	_	SSELBWM	SSEL2BWM	SELBWM	SEL2BWM
	80		-		-
	110				
	140				
9	170				
9	200				
	230				
	260				
	290				
	80		-		-
	110				
	140				
12	170				
12	200				
	230				
	260				
	290				
	110		-		-
	150				
	190				
	230				
44	270				
14	310				
14	350				
	390				
	430				
	470				
	110		-		-
	150		-		-
	190				
	230				
	270				
	310				
	350				
16	390				
	430				
16	470				
	510				
	550				
	590				
	630				
	670				
I Dim	onoion C	onfigurable	Time (1mm	Ingramant	

	L Dimen	sion Configu	rable Type (1	mm Increme	nt)
Ī					
	Н	Stainles	ss Steel	Carbo	n Steel
		SSELBWML	SSEL2BWML	SELBWML	SEL2BWMI
	9				
	12				
	14				
	16				

The 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.



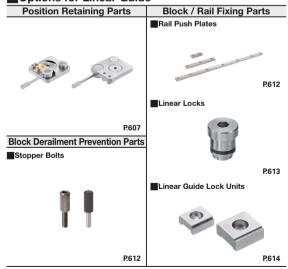
Example





Alterations	Code	Spec.
Tapped Hole	MC	Changes the rail mounting holes from counterbored holes to tapped holes. H MC 9 12 M4 16 M5
Rail End Cut LC RLC LN NL Rail is cut with the product ID facing out (datum on other side).	Left End Cut LLC Right End Cut RLC	Cuts rail ends. Drdering Code LLC H

Options for Linear Guide



Linear Guides for Medium Load

Normal Clearance

imilar Products Comparison Points | Select this product for high precision positioning, heavy load, and high frequency drive application.

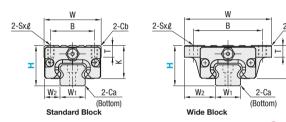
Lubrication Units MX Provides long term maintenance-free operation

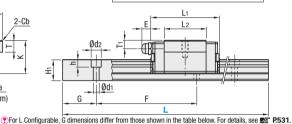


			Ту	ре			Г. —	M Material		
		1 bl	ock	2 blo		MX (Lubrication Units)	L Dimension	⊞Hardness		
		Standard Grade	High Grade	Standard Grade	High Grade			mi lai diless		
	Standard	SVR	SVRJ	SV2R	SV2RJ		Selectable			
Block	Stan	SVRL	RL SVRLJ SV2RL SV2RLJ				Configurable			
_	h Hole	svw	-	SV2W	-	Blank: None	Selectable	Carbon Steel		
Block	Through	SVWL	-	SV2WL	-	-MX: Provided	Configurable	58HRC~		
Wide B	Tapped Hole	SVWT	-	SV2WT	-		Selectable			
_	Tappe	SVWTL	-	SV2WTL	-		Configurable			

Heat Resistant Temperature: -20 ~ 80°C

Dimension Diagram of Blocks with MX (Lubrication Units)





Precautions for Use

- Blocks are equipped with retainers to prevent balls from falling off. For how to handle the blocks, see RE P525.
- Placks, See See 17-22-3.

 Radial dearrances 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.

 Placis cannot be connected end to end.
- That 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.

- Filled with Lithium soap based grease (Alvania Grease S2 by Showa Shell Sekiyu K.K).
 Grease Fittings: Straight Type for H24 and Angled Type for H28 and H33.

- Grease Fitting is screw-in type, and thus, can be repositioned.

 For Operating Life Calculation, se <u>Ber</u> P527

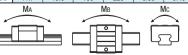
 For operating life calculations, use our free calculation software from http://download.misumi.jp/

		Part Number	er							Blo	ck Dir	mensi	on					Guide Rail Dimension						
	Ty	ne	мх	н	L	w		L1	В	Sxℓ	L2	к	т	Cb	Grease			Н1	W ₁	W ₂	Ca	Counterbored Hole	F	G
	.,,	pc	IVIX			•••	Standard	MX		J ONE			سًا	-	Mounting Hole	Е	T ₁		** 1	***2	Ou	d1xd2xh	٠.	
lock	(1 block)	(2 blocks)		24	100~1480 (160)	34	41	50.6	26	M4x7	25	20	7	0.85	M5xP0.8	6	5	12.5	15	9.5	0.5	3.5x6x4.5	60	20
Standard Block	SVRL SVRJ	SV2RL SV2RJ		28	160~1960 (220)	42	47	56.6	32	M5x8	27.6	22.5	7.5	1	M6xP0.75	13	6	15.5	20	11	0.6	6x9.5x8.5	60	20
Stan	SVRLJ	SV2RLJ	Blank: None	33	160~1960 (220)	48	59	68.6	35	М6х9	37	26.5	8	1	M6xP0.75	13	6.8	18	23	12.5	0.8	7x11x9	60	20
쓩	(1 block) SVW	(2 blocks) SV2W	-MX: Provided	24	100~1480 (160)	52	41	50.6	41	4.5 (M5)	25	20	7	0.5	M5xP0.8	6	5	12.5	15	18.5	0.5	3.5x6x4.5	60	20
Wide Block	SVWL SVWT	SV2WL SV2WT		28	160~1960 (220)	59	47	56.6	49	5.5 (M6)	27.6	22.5	9	1	M6xP0.75	13	6	15.5	20	19.5	0.6	6x9.5x8.5	60	20
×	SVWTL	SV2WTL		33	160~1960 (220)	73	59	68.6	60	7 (M8)	37	26.5	10	1	M6xP0.75	13	6.8	18	23	25	8.0	7x11x9	60	20

PL Dimension: Dimensions in () are for 2-Block Type.

Sxℓ Dimensions: Dimensions in () are for Wide Block Tapped Hole.

						kgf=N	x0.101972
	Basic Lo	ad Rating	Allowable St	atic Moment		Mass	
Н	C (Dynamic)	Co (Static)	Ма, Мв	Мс	Bloc	k kg	Guide Rail
	kN	kN	N·m	N·m	Standard	Wide	kg/m
24	5.0	8.23	33	57	0.15	0.20	1.5
28	7.2	12.1	58	135	0.20	0.25	2.4
33	11.7	19.6	109	225	0.30	0.40	3.4

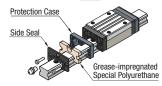


C	Reference Side	
=	\ \	
Ā	D W2	

Preload and Accuracy Standa

rds	Normal Clea	arance Type	
	Radial Cle	arance (µm)	Ī
	H24	-4~+2	Ī
)	H28	-5~+2	Ī
J	H33	-6~+3	Ī
			Ī
			١

Dimensional A	Accuracy (µm)	Standard Grade	High Grade
Height H To	lerance	±100	±40
Pair Variation	n of Height H	20	15
Width W ₂ T	olerance	±100	±20
Pair Variation	H24, 28	20	15
of Width W ₂	H33	30	13
Running Parallelism of	Plane C against Plane A	See F	DESE
Running Parallelism of B	Plane D against Plane B	See 1	.525



Advantages of Lubrication Unit MX: Provides long term maintenance-free operation. Reduces maintenance cost. Most suitable where the design does not allow lubrication. For details, see **Ex P.530**. = For customers using industry standard products =

*High Grade Types are not available.
*LTBC Plating products are available in an L dimension of up to 1000.

24

33

SVR SVW SVWT

Frame-surrounded products are compliant with the industry standard specifications (Standard Block Type). Select the block from this spec.

Part Number

SVR28 880 (With Lubrication Units)
(LTBC Plating)
880 (L Type Greased)
880 (G Type Greased) SVR-MX RVR •RVR28

LTBC Plating and various Grease types available as alternative. (Except products with Lubrication Units) P.532



2 blocks SV2R SV2W SV2WT

L Dimension Configurable Type (1mm Increment)

			Unit	Price					
Н		1 block			2 blocks				
	SVRL	SVWL	SVWTL	SV2RL	SV2WL	SV2WT			
24									
28									
33									

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.

MX (Lubrication Unit) Unit Price

н	Unit	Price
п	1 block	2 blocks
24		
28		
33		
_		

Price of Guide Rails with MX (Lubrication Unit) = Linear Guide Unit Price + MX Unit Price

Alterations	Code	Spec.
TMS:Tapped Hole Machining + 2 Stopper Plates		Adds tapped holes on both rail ends to avoid block fall-off. H24 H28, 33
TMC: Tapped Hole Machining only	TMS TMC	0 2 2
Block Stopper Plate		M3xP0.5 Depth 5 Tapped Hole For Stopper Plates Details, see P. 612 .
Rail End Cut LLC RLC	Left End Cut LLC	Cuts rail ends. Didering Code LLC
Rail is cut with the product ID facing out (datum on other side).	Right End Cut RLC	Overall length will be shorter by cutting.
Parallel Use of 2 Rails	wc	For standard grade, pair variation of Height H between 2 ra is set within 20µm. Two rails are shipped as a pair. "Specify the actual rail quantity (even number) to order, no pairs: "SNot applicable to High Grade Type. SNot applicable to low temperature chrome plated products
3-Block Specifications	В3	Add 2 blocks to 1-Block product to ship as 3-Block separatitem. Selection Example: SVR24-400-B3 Not applicable to High Grade Type.
4-Block Specifications	B4	Add 3 blocks to 1-Block product to ship as 4-Block separatitem. Selection Example: SVR24-400-B4 Not applicable to High Grade Type.

B4:1Code

H B3 (3-Block) B4 (4-Block)

Rail Height Adjusting Blocks

P.609, 610 Block / Rail Fixing Parts

280

340

340

Wide Standard MX Wide MX

340

400

400

P.612

P.614

B3:1Code

24

28 33

1 block

4 blocks Options for Linear Guide

Linear Guide Clamps

P.608

Block Derailment Prevention Parts / Dust Resistant Parts

3 blocks

Rail Mounting Hole Caps

Wide Standard MX Wide MX Standard

Position of Grease Fitting (Reference plane on the front side) Selectable Shortest Rail Length for B3 / B4

24 28

33

Linear Guide Rail Push Plates

Linear Guide

Lock Units

P.612

P.612

P612

Linear Guides for Medium Load

Normal Clearance

Similar Products Comparison Points | Select C-VALUE Products for medium-accuracy positioning, medium/low load, and medium-to-low frequency drive applications.

Select C-VALUE Products for medium-accuracy positioning, medium-low load, and medium-to-low frequency drive applications.

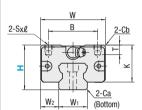
When you consider using C-VALUE Products, select an appropriate model after comparing the specifications with those of the existing products.

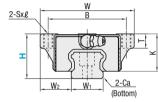


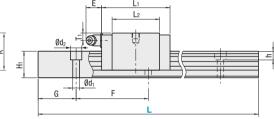
	Ту	pe					
	1 block	2 blocks	Dimension	MMaterial Hardness			
	Standard Grade	Standard Grade	Billicholon				
Standard Block	C-SVR	C-SV2R	Selectable				
Stan Blocl	C-SVRL	C-SV2RL	Configurable	Rails / Blocks: Carbon Steel			
a x pac	C-SVWT	C-SV2WT	Selectable	58HRC~62HRC			
Wide Block Tapped Hole	C-SVWTL	C-SV2WTL	Configurable				

Heat Resistant Temperature: -20 ~ 80°C

The mounting dimensions are same for the existing and C-VALUE Products.







• For L Configurable, G dimensions differ from those shown in the table below. For details, see ► P. 531.

Precautions for Use

This product is All Ball Type. Blocks are equipped with retainers to prevent balls from derailing.

For how to handle the blocks, see ♥ ₹ ₹25.

Radial clearances and accuraces are not quaranteed if the blocks and rails are interchanged from the original set combinations.

Thick grooves are provided on the datum planes of blocks and rails. Be sure to match the datum planes when using.

▼ Intox growes are provised on the datum planes or blocks and caus, se sure to match the datum planes when using.
• Rails cannot be connected end to end.
• Running parallelism is the value measured after the rail is mounted, (it is not the value measured before the rails are fastened with screws.)
• The accuracy of Linear Guides is guaranteed after mounting the rail (after fastening screws on the rail and pushing it not to 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 (Alvania Grease S2 by Showa Shell Sekiyu K.K).

- Grease Fittings: Straight Type for H24 and Angled Type for H28 and H33.

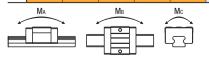
- Grease Fitting is screw-in type, and thus, can be repositioned.

- For installation and maintenance of Linear Guides, see FF P. 529.

					Block Dimension						Guide Rail Dimension										
Н	Туре	н	L	w		В	Sxl		к	т	Cb	Greas	e Fitti	ng	Hı	W ₁	\w/-	Ca	Counterbored Hole	F	G
				VV	L ₁	В	SXL	L ₂	,	'	CD	Mounting Hole	Е	T 1	П	VV1	W ₂	Ca	d1xd2xh	-	G
	(1 block) (2 blocks) C-SVR C-SV2R	24	100~1480 (160)	34	39.3	26	M4x5	22.9	20.8	6.2	0.5	M4x0.7	6	5.5	13	15	9.5	0.5	4.5x7.5x6	60	20
Standard Block	C-SVRL C-SV2RL	28	160~1960 (220)	42	47.8	32	M5x5	27.8	23.4	7.2	0.5	M6x1	12	4.5	16.5	20	11	0.5	6x9.5x8.5	60	20
		33	160~1960 (220)	48	56.2	35	M6x6	35.2	27.2	8.15	1	M6x1	12	4.5	20	23	12.5	0.9	7x11x9	60	20
Wide	(1 block) (2 blocks) C-SVWT C-SV2WT	24	100~1480 (160)	52	39.3	41	M5x7	22.9	20.8	7	-	M4x0.7	7	5.5	13	15	18.5	0.5	4.5x7.5x6	60	20
Block	C-SVWTL C-SV2WTL	28	160~1960 (220)	59	47.8	49	M6x9	27.8	23.4	9	-	M6x1	14	4.5	16.5	20	19.5	0.5	6x9.5x8.5	60	20

Allowable Load

A	llowable	Load						kgf=N×0.10972
	Basic Loa	ad Rating	Allowak	ole Static I	Moment		Ma	iss
Н	C (Dynamic)	Co	MA	Мв	Mc	Bloc	k kg	Guide Rail
	kN	kN	N∙m	N·m	N·m	Standard	Wide	kg/m
24	3.2	5.2	13.3	13.3	40.8	0.07	0.098	1.32
28	4.7	7.1	18.6	18.6	75.2	0.11	0.15	2.28
		40.0	00.0	00.0	400 =	0.40		0.45



Preload and Accuracy Standards Interchangeable, Light Preload Type



Radial Clearance (µm)								
H24	-4~+4							
H28	-5~+5							
H33	-6~+6							
H33	-(

Dimensional Accuracy (µn	n)
Height H Tolerance	±120
Variation of Height H	40
Width W ₂ Tolerance	±120
Variation of Width W2	40
Running Parallelism of Plane C against Plane A	See
Running Parallelism of Plane D against Plane B	P. 525

Similar Product Page 🔤 P.569



Ordering Part Number C-SVR28

880



Alterations Part Number - L - (B3)

Alterations	Code	Spec.
3-Block Specifications	В3	Add 2 blocks to 1-block product to ship as 3-block separate item. Selection Example: C-SVR24-400-B3
4-Block Specifications	B4	Add 3 blocks to 1-block product to ship as 4-block separate item. Selection Example: C-SVR24-400-B4

Additional Block Price

н	B3: Pric	e Adder	B4: Price Adder						
- "	C-SVR	C-SVWT	C-SVR	C-SVWT					
24									
28									
33		-		-					

Position of Grease Fitting (Reference plane on the front side) Selectable Shortest Rail Length for B3/B4

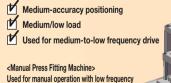
1 block 2 blocks 3 blocks 4 blocks

		-
Н	B3 (3-block)	B4 (4-block)
24	340	400
28	400	460
33	400	520
42	440	520

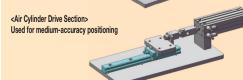


Example

C-VALUE Products - App. Example







н	1 bl	ock	2 blo	ocks	
	C-SVRL	C-SVWTL	C-SV2RL	C-SV2WTL	
24					•
28					Ů

L Dimension Configurable Type (10mm Increment)

24

28

33

• For calculation of L Dimension Configurable Type (10mm Increment), add the amount shown on the left to the unit price of the Selectable Type longer than, and closest to this L Dimension Configurable Type.

Linear Guides for Medium Load

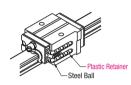
With Plastic Retainers, Interchangeable, Light Preload

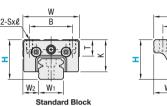
Features: Linear Guides with Plastic Retainers prevent contact between balls and result in low noise levels under high-speed operation.

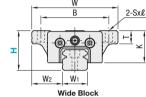


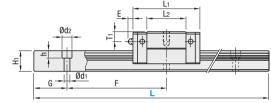
	Ту	pe	Block	Rail	L	Material
	1 block	2 blocks	BIOCK	naii	Dimension	Hardness
Standard	SVRZ	SV2RZ	SVRB	SRZL	Selectable	
Statiualu	SVRLZ	SV2RLZ	SVND	SRZLF	Configurable	
Wide Block	SVWZ	SV2WZ	SVWB	SRZL	Selectable	Carbon Steel
Through Hole	SVWLZ	SV2WLZ	SVVD	SRZLF	Configurable	58HRC~
Wide Block	SVWTZ	SV2WTZ	SVWTB	SRZL	Selectable	
Tapped Hole	SVWTLZ	SV2WTLZ	SVWID	SRZLF	Configurable	

Heat Resistant Temperature: 0 ~ 50°C









● For L Configurable, G dimensions differ from those shown in the table below. For details, see
■ P.531.

- For Interchangeable, Light Preload Type, rails and blocks can be interchanged
- 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.

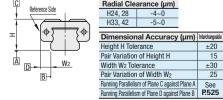
- Filled with Lithium soap based grease (Alvania Grease S2 by Showa Shell Sekiyu K.K).
 Grease Fittings: Straight Type for H24 and Angled Type for H28, H33 and H42.
- Grease Fitting is screw-in type, and thus, can be repositioned.
- For Operating Life Calculation, see **EF P.527** For operating life calculations, use our free calculation software from http://download.misumi.jp/

	Pai	rt Number						Е	Block D	imens	ion					Gui	de Rai	I Dimensio	n	
	Ty	/pe	н	L	w	L ₁	В	Sxl	L ₂	К	т	Greas	e Fitti	ng	H ₁	W ₁	W ₂	Counterbored Hole	F	G
	1 block	2 blocks			••			JA2	L-2	- 1	<u> </u>	Mounting Hole	E	T ₁		** 1	***2	d1xd2xh	•	_ u
	SVRZ SVRLZ	SV2RZ SV2RLZ	24	100~1480 (160)	34	40.4	26	M4x6	23.6	19	10	Ø3	3	6	12.5	15	9.5	3.5x6x4.5	60	20
d Block	(Block)	(Rail)	28	160~1960 (220)	42	47.2	32	M5x7	30	22	12	M6xP0.75	11	5.5	15.5	20	11	6x9.5x8.5	60	20
Standard	SVRB	SRZL SRZLF	33	160~1960 (220)	48	59.6	35	M6x9	38	26	12	M6xP0.75	11	7	18	23	12.5	7x11x9	60	20
			42	200~1960 (280)	60	67.4	40	M8x12	42	33	13	M6xP0.75	11	8	23	28	16	7x11x9	80	20
	SVWZ SVWLZ	SV2WZ SV2WLZ	24	100~1480 (160)	52	40.4	41	4.5 (M5)	23.6	19	8	Ø3	3	6	12.5	15	18.5	3.5x6x4.5	60	20
Block	SVWTZ SVWTLZ	SV2WTZ SV2WTLZ	28	160~1960 (220)	59	47.2	49	5.5 (M6)	30	22	10	M6xP0.75	11	5.5	15.5	20	19.5	6x9.5x8.5	60	20
Wide	(Block)	(Rail)	33	160~1960 (220)	73	59.6	60	7 (M8)	38	26	11	M6xP0.75	11	7	18	23	25	7x11x9	60	20
	SVWB	SRZLF	42	200~1960 (280)	90	67.4	72	9 (M10)	42	33	11	M6xP0.75	11	8	23	28	31	7x11x9	80	20

₱L Dimension: Dimensions in () are for 2-Block Type.
₱Sxℓ Dimensions: Dimensions in () are for Wide Block Tapped Hole

							kgf=	=Nx0.101972					
	Basic Loa	ad Rating	Allowab	le Static	Moment	Mass							
Н	C (Dynamic)	Co (Static)	MA	Мв	Mc	Bloc	k kg	Guide Rail kg/m					
	kN	kN	N⋅m	N⋅m	N⋅m	Standard	Wide						
24	4.9	7.8	21	18	39	0.14	0.17	1.4					
28	7.25	11.8	40	34	80	0.19	0.24	2.3					
33	12.7	20.8	96	81	164	0.34	0.44	3.1					
42	18.7	29.6	153	128	282	0.58	0.76	4.8					
	MA		Me	3	Mc								
~		`				`							
	$\overline{}$			_		_							





Radial Cle	arance (µm)		
H24, 28	-4~0		
H33, 42	-5~0		
Dimension	al Accuracy	(µm)	Interchangeable
Height H Tole	rance		±20
Pair Variation	of Height H		15
Width W ₂ Tol	erance		±30
Pair Variation	of Width W ₂		25

= For customers using industry standard products =

Frame-surrounded products are compliant with the industry standard specifications (Standard Block Type). Select the block from this spec.

												■L Die		· améia.	woble	Time	/4	Inoro	.m.a.m#)		
н	Selectable		1 block			2 blocks	Price	Rail		Block		L DII	nension C	oninge	urable	ype	_	Price			
	L	SVRZ	SVWZ	SVWTZ	SV2RZ	SV2WZ	SV2WTZ	SRZL	SVRB	SVWB	SVWTB	н		1 blo	ock		-		2 block	s	Rails
	100 160				-	-	-						SVRLZ	SVW	LZ S	VWTL	Z SV2	2RLZ	SV2WL2	Z SV2WT	LZ SRZLF
	220 280											24					╫			-	
	340											33			-		╫				
	400 460											42									
	520 580																				ve amount to the
	640											unit pr	ice of the Sele	ectable T	ype lon	ger than	and clo	sest to th	his L Dime	ension Conf	igurable Type.
	700 760															_					
24	820												Part Numb	ber -	L						
	940												SVRZ28	8 -	820						
	1000																				
	1060 1120					-															
	1180 1240																				
	1300																				
	1360 1420																				
	1480																				
	160 220				-	-	-														
	280																				
	340 400																				
	460 520																				
	580																				
	700																				
	760																				
	820 880																				
	940												Alterations	39 Pa	rt Numb	er - I	- (1	RLC, LL	Cetc.)		
28	1000 1060											L@_	Alterations 4		SVRZ28		10 -	RL			
	1120 1180												A 14 41	-	10				0		
	1240												Alterations		C	ode	Cuto roil	ondo	Sp	ec.	
	1300												Rail End Cut			End Cut	Cuts rail Ordering Co	del LLC			
	1420											LLC	Engraving	RLC	L	LC	H 24	L Cut	N		
	1480 1540		_			-						LN		N L	\vdash	\dashv	28 33	10	10		
	1600											1-4-	t with the next			End Cut	42				
	1660 1720												ut with the pr it (datum on oti			LC	Appli Overa	cable to : all length	Selectable will be st	Type only. norter by cu	ttina.
	1780 1840											-	<u> </u>		1						hip as 3-Block
	1900											3-BI	ock Specifica	ations	1	33	separat	e item.		24-400-B3	
	1960 160				-	-	-														hip as 4-Block
	220 280											4-BI	ock Specifica	ations		34	separat	e item.		24-400-B4	inp do 1 biook
	340											■ Additi	onal Block	Drico			OCIOCIIC	iii Examp	JIO. OVIIZZ	- + O O D +	
	400 460											Additi	I DIOCK		1Cod				В	84:1Code	3
	520											Н	Standard				pped Holes	Stan			s Wide Tapped Holes
	580 640								-			24									
	700 760											28									
	820											33									
	940											42									
00	1000											Position	of Grease Fitting	g (Referen	nce plane	on the fro	ont side)	■Se	electable S	hortest Rail	Length for B3/B4
33	1060 1120											1 blest					_	Н			B4 (4-Block)
	1180 1240											1 block		T_				24	2	80	340
	1300											2 blocks						28		40	400
	1360 1420											3 blocks						33 42		40 60	400 440
	1480											4 blocks			\supseteq H	_			, ,		
	1540 1600																				
	1660 1720											Op	otions 1	for L	Line	ar C	auid	е			
	1780												Linear Gu						leight /	Adjustin	g Blocks
	1840 1900																			•	
	1960																	1			
	200 280											1									
	360 440												4			P.60	8				P.609, 610
	520											DI	9 (6 %		D				1.75		
	600 680												ailment Preventio		Dust Re	sistant Pa	\neg			il Fixing	Parts
	760											Sto	pper Bolts	s P	1			Rail P	ush Pla	ates	
	920																		TEACH	5 m	4 4
40	1000														,	P.61	2		St	6.	P.612
42	1080 1160											■ RIc	ck Stoppe	ar Dlat	29.		i	Linear	Locke		1.012
	1240											BIO	ow orobbe	ıı ıal				Linear	LUUKS	0	
	1320 1400																		1		
	1480 1560															P.61	2		,		P.613
	1640											Rai	Mounting	g Hole	Сар	s		Linea	r Guide	Lock U	nits
	1720 1800																				
	1880													-38					6		
	1960															P.61	2			4	P.614

Linear Guides for Heavy Load

Normal Clearance

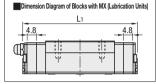
imilar Products Comparison Points | Select this product for high precision positioning, heavy load, and high frequency drive application.

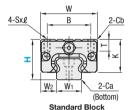
Lubrication Units MX
Provides long term maintenance-free operation.

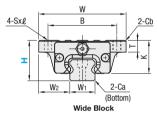


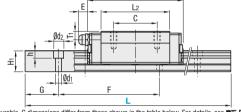
			Ty	ре		Ι.	Material	
		1 bl	ock	2 blo	ocks	MX (Lubrication Units)	Dimension	Hardness
		Standard Grade	High Grade	Standard Grade	High Grade		D	LI la ciless
dard		SXR	SXRJ	SX2R	SX2RJ		Selectable	
Standard	Block	SXRL	SXRLJ	SX2RL	SX2RLJ		Configurable	
		SXW		SX2W		Blank: None	Selectable	Carbon Steel
	Through Hole	SXWL		SX2WL		-MX: Provided	Configurable	58HRC~
9	dHole	SXWT	-	SX2WT	-		Selectable	
-	Tapped	SXWTL		SX2WTL			Configurable	

Heat Resistant Temperature: -20 ~ 80°C









For L Configurable, G dimensions differ from those shown in the table below. For details, see ₱₹ P531

- Precautions for Use

 ⊕ Blocks are equipped with retainers 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.

- Others

 Filled with Lithium soap based grease (Alvania Grease S2 by Showa Shell Sekiyu K.K).

 Grease Fittings: Straight Type for H24 and Angled Type for H28 and H33.

 Grease Fitting is screw-in type, and thus, can be repositioned.

 For Operating Life Calculation, see ► F527

 For operating life calculations, use our free calculation software from http://download.misumi.jp/mol/fa_soft.html. Thoual ucleanates and accutates a rising goal anieurs in the bounds and rais are interchalged from the original set commissions.

 Paulis cannot be connected end to end.

 The accuracy of Linear Guides is guaranteed after mounting the rail (after fastening screws on the acture of the party of 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.

		Part Number	er			Block Dimension												Guide Rail Dimension							
	Туј	ре	MX	н	L	W	Standard	L ₁	В	С	Sxl	L ₂	K	Т	Cb	Grease Mounting Hole		ng T1	H ₁	W ₁	W ₂	Ca	Counterbored Hole d1xd2xh	F	G
Block	(1 block)	(2 blocks)		24	100~1480 (160)	34	57	66.6	26	26	M4x7	41	20	7	0.85	M5xP0.8	6	5	12.5	15	9.5	0.5	3.5x6x4.5	60	20
Standard B		SX2RL SX2RJ		28	160~1960 (220)	42	67	76.6	32	32	M5x8	47.6	22.5	7.5	1	M6xP0.75	13	6	15.5	20	11	0.6	6x9.5x8.5	60	20
Stan	SXRLJ	SX2RLJ	Blank: None	33	160~1960 (220)	48	83	92.6	35	35	М6х9	61	26.5	8	1	M6xP0.75	13	6.8	18	23	12.5	0.8	7x11x9	60	20
*	(1 block) SXW	(2 blocks) SX2W	-MX: Provided	24	100~1480 (160)	52	57	66.6	41	26	4.5 (M5)	41	20	7	0.5	M5xP0.8	6	5	12.5	15	18.5	0.5	3.5x6x4.5	60	20
Wide Block	SXWL SXWT	SX2WL SX2WT		28	160~1960 (220)	59	67	76.6	49	32	5.5 (M6)	47.6	22.5	9	1	M6xP0.75	13	6	15.5	20	19.5	0.6	6x9.5x8.5	60	20
M	SXWTL	SX2WTL		33	160~1960 (220)	73	83	92.6	60	35	7 (M8)	61	26.5	10	1	M6xP0.75	13	6.8	18	23	25	8.0	7x11x9	60	20

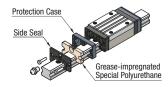
L Dimension: Dimensions in () are for 2-Block Type.
Sxp Dimensions: Dimensions in () are for Wide Block Tapped Hole

• • • • •			()			kgf=N	x0.101972
	Basic Lo	ad Rating	Allowable St	atic Moment			
Н	C (Dynamic)	Co (Static)	Ма, Мв	Мс	Bloc	k kg	Guide Rail
	kN	kN	N·m	N⋅m	Standard	Wide	kg/m
24	8.6	14.2	69	98	0.20	0.25	1.5
28	12.5	21.3	155	232	0.30	0.35	2.4
33	20.2	34.5	275	393	0.45	0.60	3.4

i	Drolood and Assurance Standards	Normal Clearance Type
П	Preload and Accuracy Standards	Normal Clearance Type

otaliual us		oa.aoo .,pc
	Radial Cle	arance (µm)
	H24	-4~+2
	H28	-5~+2
~ (♦)	H33	-6~+3
_		

Dimensional A	Accuracy (µm)	Standard Grade	High Grade
Height H To	lerance	±100	±40
Pair Variation	n of Height H	20	15
Width W ₂ T	olerance	±100	±20
Pair Variation	H24, 28	20	15
of Width W ₂	H33	30	13
Running Parallelism of I	Plane C against Plane A	Coo. I	2525
Running Parallalism of E	Plana D ansinet Plana R	266 I	.525



Advantages of Lubrication Unit MX: Provides long term maintenance-free operation.
Reduces maintenance cost. Most suitable
where the design does not allow lubrication.
For details, see **F.530**.

= For customers using industry standard products =

Frame-surrounded products are compliant with the industry standard specifications (Standard Block Type). Select the block from this spec.



LTBC Plating and various Grease types available as alternativ (Except Blocks with Lubrication Units) F.532

*High Grade Types are not available.

TITEC Plating products are available in an L dimension of up to 1000.

Ī			Unit Price 1 block 2 blocks												
	Н	Selectable L		1 block			2 blocks								
		-	SXR	SXW	SXWT	SX2R	SX2W	SX2WT							
		100				-	-	-							
		160													
		220													
		280													
		340													
		400													
		460 520													
		580													
		640													
	24	700													
		760													
		820													
		880													
		940													
		1000													
		*1120													
		*1240													
		*1360													
		*1480													
		160				-	-	-							
		220 280													
		340													
		400													
		460													
		520													
		580													
		640													
		700													
		760													
	28	820													
		880													
		940													
		1000													
		1120													
2		1240 *1360													
		*1480													
		*1600													
		*1720													
		*1840													
		*1960													
-		160				-	-	-							
		220													
		280													
		340													
		400													
		460													
		520													
		580													
		640													
		700 760													
	33	820													
	00	880													
		940													
		1000													
		1120													
		1240													
		*1360													
		*1480													
		*1600													
		*1720													
		*1840													
		*1960													

L Dimension Configurable Type (1mm Increment)

			Unit	Price		
Н		1 block			2 blocks	
	SXRL	SXWL	SXWTL	SX2RL	SX2WL	SX2WTL
24						
28						
33						

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.

MX (Lubrication Unit) Unit Price

WAY (Eddition	Omic Thoc	
н	Unit	Price
п	1 block	2 blocks
24		
28		
33		

Price of Guide Rails with MX (Lubrication Unit) = Linear Guide Unit Price + MX Unit Price

Alterations	Code	Spec.
TMS:Tapped Hole Machining + 2 Stopper Plates		Adds tapped holes on both rail ends to avoid block fall-off.
TMC: Tapped Hole Machining only		H24 H28, 33
Block Stopper Plate	TMS	M3xP0.5 Depth 5 Tapped Hole For Stopper Plates Details, see P612 .
Rail End Cut	Left End Cut LLC	Cuts rail ends. Disting Gold LLC H L Cut N Poplicable to Selectable Type only. 24 Popular librarity will be charter by cutting 28 10 10
Rail is cut with the product ID facing out (datum on other side).	Right End Cut RLC	Overall length will be shorter by cutting. 28/33 10 10 ⊗Not applicable to H dimension 24 of L dimension 100. 33 10 10
Parallel Use of 2 Rails	wc	Pair variation of Height H between 2 rails is set within 20µm. Two rails are shipped as a pair. "Specify the actual rail quantity (even number) to order, not "pairs". Not applicable to High Grade Type. Not applicable to low temperature chrome plated products.
3-Block Specifications	В3	Add 2 blocks to 1-Block product to ship as 3-Block separate item. Selection Example: SXR24-400-B3 Not applicable to High Grade Type.
4-Block Specifications	B4	Add 3 blocks to 1-Block product to ship as 4-Block separate item. Selection Example: SXR24-400-B4 Not applicable to High Grade Type.

Additional Block Price

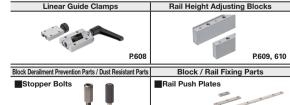
24 28		B3:10	Code		B4:1Code							
п	Standard	Wide	Standard MX	Wide MX	Standard	Wide	Standard MX	Wide MX				
24												
28												
33												

Position of Greace Fitting (Reference plane on the front side)

1 block	
2 blocks	
3 blocks	

	Select	able Shortest Rail	Length for B3/B4					
	Н	B3 (3-Block)	B4 (4-Block)					
	24	340	400					
	28	400	460					
	33	400	520					
_								

Options for Linear Guide





Linear Guides for Heavy Load

Normal Clearance

Select C-VALUE Products for medium-accuracy positioning, medium/low load, and medium-to-low frequency drive applications.

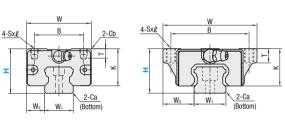
When you consider using C-VALUE Products, select an appropriate model after comparing the specifications with those of the existing products. P. P.575, P.579

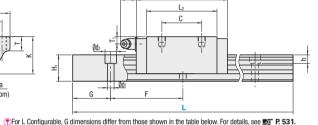


	Ту	pe						
	1 block	2 blocks	L Dimension	MMaterial ⊞Hardness				
	Standard Grade	Standard Grade		<u> </u>				
Block	C-SXR	C-SX2R	Selectable					
Standard	C-SXRL	C-SX2RL	Configurable	Rails / Blocks: Carbon Steel				
Wide Block	C-SXWT	C-SX2WT	Selectable	58HRC~62HRC				
Tapped Hole	C-SXWTL	C-SX2WTL	Configurable					

Heat Resistant Temperature: -20 ~ 80°C

The mounting dimensions are same for the existing and C-VALUE Products.





■Precautions for Use

This product is All Ball Type. Blocks are equipped with retainers to prevent balls from derailing.

☼ This product is Ail Ball type. Blocks are equipped with retainers to prevent oalis from derailing. For how to handle the blocks, see № 7, 5.25.
• Radial learances and accuracies are not quaranteed if the blocks and rails are interchanged from the original set combinations.
• Thick grooves are provided on the datum planes of blocks and rails. Be sure to match the datum planes 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 tont 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 (Alvania Grease S2 by Showa Shell Sekiyu K.K).

- Grease Fittings: Straight Type for H24 and Angled Type for H28 and H33.

- Grease Fitting is screw- in type, and thus, can be repositioned.

- For installation and maintenance of Linear Guides, see

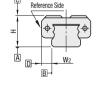
F 7. 529.

			Block Dimension										Guide Rail Dimension									
Н	Туре	н	L	w	L ₁	В	С	Sxl	L2	к	т	Cb	Grease	Fitt	ing	H ₁	W ₁	W ₂ Ca		Counterbored Hole	F	G
				**	Li			JAL	L2	Ι.	` '		Mounting Hole	Е	T ₁	п	VV 1	***	Ca	d1xd2xh	-	G
р	(1 block) (2 blocks) – C-SXR C-SX2R C-SXRL C-SX2RL –	24	100~1480 (160)	34	55.9	26	26	M4x5	39.5	20.8	6.2	0.5	M4x0.7	7	5.5	13	15	9.5	0.5	4.5x7.5x6	60	20
Standard		28	160~1960 (220)	42	66.7	32	32	M5x5	46.7	23.4	7.2	0.5	M6x1	14	4.5	16.5	20	11	0.5	6x9.5x8.5	60	20
ਲ		33	160~1960 (220)	48	80	35	35	M6x6	59	27.2	8.15	1	M6x1	14	4.5	20	23	12.5	0.9	7x11x9	60	20
픙	(1 block) (2 blocks) C-SXWT C-SX2WT C-SXWTL C-SX2WTL	24	100~1480 (160)	52	55.9	41	26	M5x7	39.5	20.8	7	-	M4x0.7	7	5.5	13	15	18.5	0.5	4.5x7.5x6	60	20
Nide Block		28	160~1960 (220)	59	66.7	49	32	M6x9	46.7	23.4	9	-	M6x1	14	4.5	16.5	20	19.5	0.5	6x9.5x8.5	60	20
Wic		33	160~1960 (220)	73	80	60	35	M8x10	59	27.2	10	-	M6x1	14	4.5	20	23	25	0.9	7x11x9	60	20

• L Dimension: Dimensions in () are for 2-Block Type.

Allowable Load

A	Allowable Load kgf=N×0.10972											
	Basic Loa	ad Rating	Allowab	le Static	Mass							
Н	C (Dynamic)	Co	MA	Мв	Мс	Block	k kg	Guide Rail kg/m				
	(Dynamic) kN	kN	N∙m	N∙m	N∙m	Standard	Wide					
24	4.9	9.7	48.4	48.4	75.7	0.13	0.17	1.32				
28	7.7	14.1	81.9	81.9	150.4	0.18	0.24	2.28				
33	10.6	19.7	141.2	141.2	240.8	0.3	0.44	3.17				



Preload and Accuracy Standards Interchangeable, Light Preload Type

	Radial Cle	arance (µm)
7	H24	-4~+4
(4)	H28	-5~+5
J	H33	-6~+6

Dimensional Accuracy (µm)						
Height H Tolerance	±120					
Variation of Height H	40					
Width W ₂ Tolerance	±120					
Variation of Width W ₂	40					
Running Parallelism of Plane C against Plane A	See					
Running Parallelism of Plane D against Plane B	P. 525					

Similar Product Page 🔤 P.575



Ordering Part Number C-SXR28 880

C-SXWT28 - 880

1 block

Part Number (Type, H) - L - (B3)

Alterations	Code	Spec.
3-Block Specifications	В3	Add 2 blocks to 1-block product to ship as 3-block separate item. Selection Example: C-SXR24-400-B3
4-Block Specifications	В4	Add 3 blocks to 1-block product to ship as 4-block separate item. Selection Example: C-SXR24-400-B4

■L Dimension Configurable Type (10mm Increment)

		Unit Price											
н		1 b	lock	2 blocks									
		C-SXRL	C-SXWTL	C-SX2RL	C-SX2WTL								
	24												
	28												
	33												

For calculation of L Dimension Configurable Type (10mm Increment), add the above amount to the

Position of Grease Fitting (Reference plane on the front side) Selectable Shortest Rail Length for B3/B4

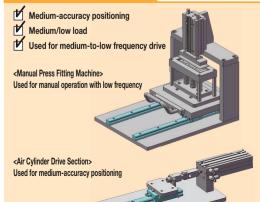
1 block	Н	B3 (3-block)	B4 (4-block)
2 blocks	24	340	400
3 blocks	28	400	460
4 blocks	33	440	520

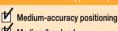
Additional Block Price

	Unit Price											
н	B3: Prid	e Adder	B4: Price Adder									
	C-SXR	C-SXWT	C-SXR	C-SXWT								
24												
28												
33												



C-VALUE Products - App. Example

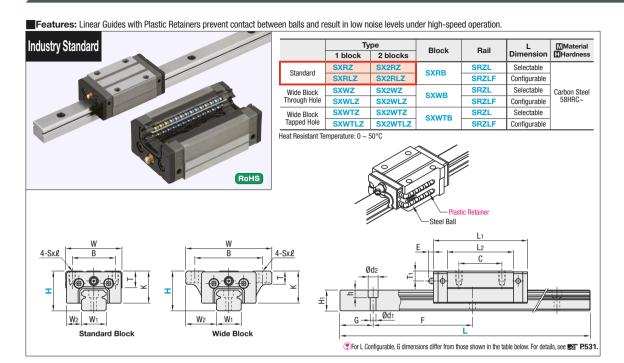






Linear Guides for Heavy Load

With Plastic Retainers, Interchangeable, Light Preload



- Precautions for Use
- Blocks are equipped with retainers to prevent balls from falling off. For how to handle the blocks, see E P.525.
- For Interchangeable, Light Preload Type, rails and blocks can be interchanged.
 Straight grooves are provided on datum planes. Be sure to match the datum lines when using.

- 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.

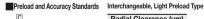
- Others
 Filled with Lithium soap based grease (Alvania Grease S2 by Showa Shell Sekiyu K.K).
- Grease Fittings: Straight Type for H24 and Angled Type for H28, H33 and H42.
- · Grease Fitting is screw-in type, and thus, can be repositioned.
- For Operating Life Calculation, see P.527
- For operating life calculations, use our free calculation software from http://download.misumi.jp/ mol/fa soft.html.

	Part Number					Block Dimension										Guide Rail Dimension							
	T	уре	н	L	w	Lı	В	С	Sxl	L2	к	т	Grease Fitting		Grease Fitting		Grease Fitting		W ₁	W ₂	Counterbored Hole	F	G
	1 block	2 blocks	_ n		٧٧	L.			JAK	LZ	I K	•	Mounting Hole	Е	T ₁	H ₁	W	WV2	d1xd2xh	-	u		
Standard Block	SXRZ SXRLZ	SX2RZ SX2RLZ	24	100~1480 (160)	34	56.8	26	26	M4x6	40	19.4	10	Ø3	3	6	12.5	15	9.5	3.5x6x4.5	60	20		
	(Block)	(Block) (Rail)	28	160~1960 (220)	42	65.2	32	32	M5x7	48	22	12	M6xP0.75	11	5.5	15.5	20	11	6x9.5x8.5	60	20		
Chanda	SXRB	SRZL SRZLF	33	160~1960 (220)	48	81.6	35	35	M6x9	60	26	12	M6xP0.75	11	7	18	23	12.5	7x11x9	60	20		
			42	200~1960 (280)	60	96.4	40	40	M8x12	71	33	13	M6xP0.75	11	8	23	28	16	7x11x9	80	20		
	SXWZ SXWLZ	SX2WZ SX2WLZ	24	100~1480 (160)	52	56.8	41	26	4.5 (M5)	40	19.4	8	Ø3	3	6	12.5	15	18.5	3.5x6x4.5	60	20		
Joold	SXWTZ	SX2WTZ SX2WTLZ	28	160~1960 (220)	59	65.2	49	32	5.5 (M6)	48	22	10	M6xP0.75	11	5.5	15.5	20	19.5	6x9.5x8.5	60	20		
Wide Block	SAWD	(Rail)	33	160~1960 (220)	73	81.6	60	35	7 (M8)	60	26	11	M6xP0.75	11	7	18	23	25	7x11x9	60	20		
	SXWTB	SRZLF	42	200~1960 (280)	90	96.4	72	40	9 (M10)	71	33	11	M6xP0.75	11	8	23	28	31	7x11x9	80	20		

kgf=Nx0.101972

- Dimension: Dimensions in () are for 2-Block Type.
 Sxℓ Dimensions: Dimensions in () are for Wide Block Tapped Hole.

	Basic Loa	ad Rating	Allowab	le Static	Moment	Mass				
н	C (Dynamic)	Co (Static)	MA	Мв	Mc	Bloc	k kg	Guide Rail		
	kN	kN	N⋅m	N⋅m	N⋅m	Standard	Wide	kg/m		
24	7.9	15.6	74	62	78	0.2	0.26	1.4		
28	11.1	21.8	124	104	149	0.28	0.35	2.3		
33	17.9	33.5	242	203	266	0.51	0.66	3.1		
42	27.3	50.5	415	350	480	0.85	1.20	4.8		
	Ma			Мв		Mc		_		
		_	_		`					
			_		_					



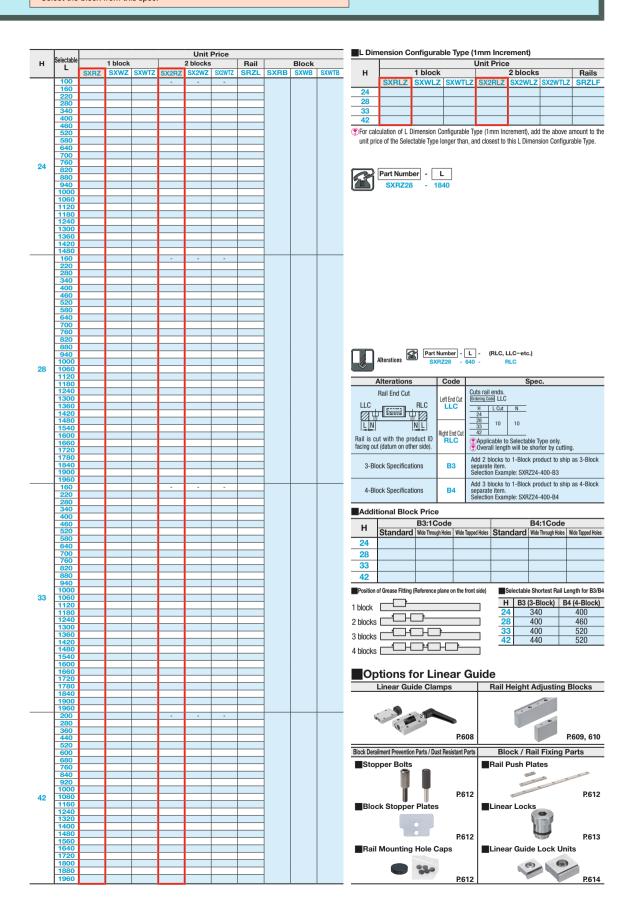


	Hadiai Ole	arance (µm)
	H24, 28	-4~0
	H33, 42	-5~0
 	Dimension	al Accuracy
	Hojaht H Tola	ronoo

Dimensional Accuracy (µm)	Interchangeab
Height H Tolerance	±20
Pair Variation of Height H	15
Width W ₂ Tolerance	±30
Pair Variation of Width W2	25
Running Parallelism of Plane C against Plane A	
Running Parallelism of Plane D against Plane B	P.525

= For customers using industry standard products =

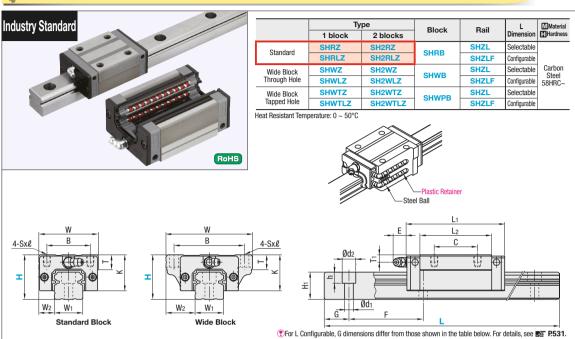
Frame-surrounded products are compliant with the industry standard specifications (Standard Block Type). Select the block from this spec.



Linear Guides for Super Heavy Load

With Plastic Retainers, Interchangeable, Light Preload

Similar Products Comparison Points | Select this product for high precision positioning, heavy load, and high frequency drive application.



- Precautions for Use
- Blocks are equipped with retainers to prevent balls from falling off. For how to handle the blocks, see E P.525.
- For Interchangeable, Light Preload Type, rails and blocks can be interchanged.
- 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.

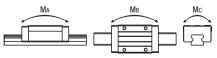
- Others
 Filled with Lithium soap based grease (Alvania Grease S2 by Showa Shell Sekiyu K.K).
- · Angled Grease Fitting Type
- Grease Fitting is screw-in type, and thus, can be repositioned.
- For Operating Life Calculation, see EF P.527
- For operating life calculations, use our free calculation software from http://download.misumi.jp/

	Pai	rt Number							Blo	ck Dir	nensio	n				Guide Rail Dimension															
	Туре		н	L	L	L	L	L	L	L	L	L	L	L	w	L ₁	В	С	Sxl	L2	к	т		e Fitti		H ₁	W ₁	W ₂	Counterbored Hole	F	G
	1 block	2 blocks			II EI B G GAE		.`		Mounting Hole	E	T ₁	•••	•••	***	d ₁ xd ₂ xh	•															
Block	SHRZ SHRLZ	SH2RZ SH2RLZ	30	220~1960	44	69.8	32	36	M5x6	50	25	12	M6xP0.75	11	5	18	20	12	6x9.5x8.5	60	20										
Standard B		(Rail) SHZL	36	220~1960	48	79	35	35	M6x6	58	29	12	M6xP0.75	11	6	22	23	12.5	7x11x9	60	20										
ret S.		SHZLF	42	280~1960	60	85.6	40	40	M8x8	59	33	14	M6xP0.75	11	7	26	28	16	9x14x12	80	20										
Wide Block	SHWZ SHWLZ SHWTZ	SH2WZ SH2WLZ SH2WTZ	30	220~1960	63	69.8	53	40	6 (M6)	50	25	10	M6xP0.75	11	5	18	20	21.5	6x9.5x8.5	60	20										
	SHWTLZ	SH2WTLZ (Rail)	36	220~1960	70	79	57	45	7 (M8)	58	29	11	M6xP0.75	11	6	22	23	23.5	7x11x9	60	20										
>	SHWB SHWPB	SHZL SHZLF	42	280~1960	90	98.6	72	52	9 (M10)	72	33	11	M6×P0.75	11	7	26	28	31	9x14x12	80	20										

Sxℓ Dimensions: Dimensions in () are for Wide Block Tapped Hole.

							кдт=	NXU.101972			
	Basic Lo	ad Rating	Allowab	le Static	Moment	Mass					
Н	C (Dynamic) Co (Static)		MA	Мв	Mc	Bloc	k kg	Guide Rail			
	kN	kN	N⋅m	N⋅m	N⋅m	Standard	Wide	kg/m			
30	16.3	29.6	167	141	199	0.33	0.45	2.6			
36	22.4	37.5	246	207	295	0.46	0.63	3.6			
42	31.0 (35.5)	51.5 (63.0)	356 (540)	305 (450)	490 (600)	0.69 (1.2)	1.20	5.2			

Values in () are for Wide Block (Through Holes and Tapped Holes) Type



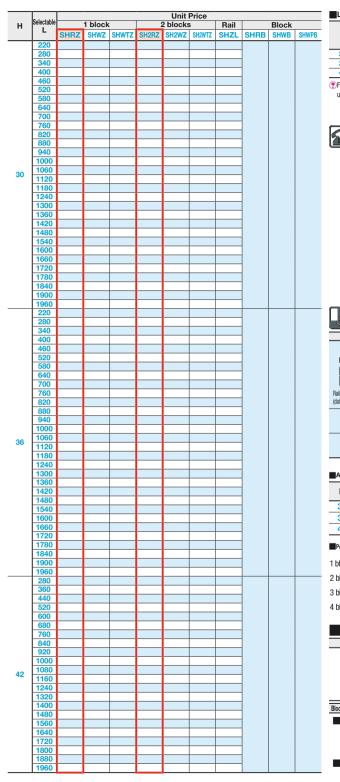


Preload and Accuracy Standards Interchangeable, Light Preload Type Radial Clearance (µm)

Reference Side	H30, 36	-5~0	
	H42	-7~0	
\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Dimension	al Accurac	y (µ
$\gamma \cdot \varphi$	Height H Tole	rance	
	Pair Variation	of Height H	
- W ₂	Width W ₂ Tol	erance	
D - 1 - W2	Pair Variation	of Width W2	
B⊢	Running Parallelis	m of Plane C agair	ist Pla
	Running Parallelis	m of Plane D again	et Plan

= For customers using industry standard products =

Frame-surrounded products are compliant with the industry standard specifications (Standard Block Type). Select the block from this spec.



■L Dimension Configurable Type (1mm Increment)

				Unit Price									
Н		1 block			Rails								
	SHRLZ	SHWLZ	SHWTLZ	SH2RLZ	SH2WLZ	SH2WTLZ	SHZLE						
30													
36													
42													

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.





Alterations	Code	Spec.
Rail End Cut LLC RLC LIN NLL Rail is cut with the product ID facing out (datum on other side).	Left End Cut LLC Right End Cut RLC	Cuts rail ends. Stemm cold LLC
3-Block Specifications	В3	Add 2 blocks to 1-Block product to ship as 3-Block separate item. Selection Example: SHRZ30-400-B3
4-Block Specifications	B4	Add 3 blocks to 1-Block product to ship as 4-Block separate item. Selection Example: SHRZ30-400-B4

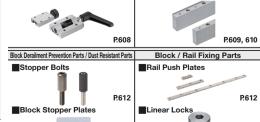
■Additional Block Price

	н		20110000		2 0 0 0 0						
	п	Standard	Wide Through Holes	Wide Tapped Holes	Standard	Wide Through Holes	Wide Tapped Holes				
	30										
	36										
	42										
ì	Position	of Grease Fitting (Reference plane o	Selectable	e Shortest Rail L	ength for B3/B4					

B3:1Code

block	Н	B3 (3-Block)	B4 (4-Block)
	30	340	400
blocks	36	400	460
blocks blocks	42	400	520
blocks blocks			

Options for Linear Guide Linear Guide Clamps Rail Height Adjusting Blocks









P.612

Linear Guides for Super Heavy Load

Normal Clearance

Select C-VALUE Products for medium-accuracy positioning, medium/low load, and medium-to-low frequency drive applications.

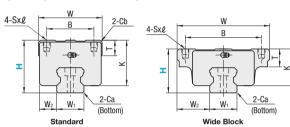
When you consider using C-VALUE Products, select an appropriate model after comparing the specifications with those of the existing products. ET P.581

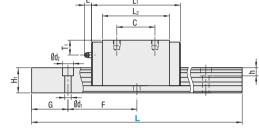


	Т	уре	L	MMaterial
	1 block	2 blocks	Dimension	Hardness
dard	C-SHR	C-SH2R	Selectable	
Standard Block	C-SHRL	C-SH2RL	Configurable	Rails / Blocks: Carbon Steel
	C-SHWT	C-SH2WT	Selectable	58~62HRC
Block Wide	C-SHWTL	C-SH2WTL	Configurable	

Heat Resistant Temperature: -20 ~ 80°C

The mounting dimensions are same for the existing and C-VALUE Products.





• For L Configurable, G dimensions differ from those shown in the table below. For details, see ► P. 531.

- Precautions for Use

 This product is All Ball Type. Blocks are equipped with retainers to prevent balls from derailing.

 For how to handle the blocks, see ► P.525.

 Radial desances and accuracies are not quaranteed if the blocks and rails are interchanged from the original set combinations.

 Thick grooves are provided on the datum planes of blocks and rails. Be sure to match the datum planes 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 (Alvania Grease S2 by Showa Shell Sekiyu K.K).

- Grease Fittings: Straight Type for H24 and H28 and Angled Type for H30, H36, H40, H42 and H45.

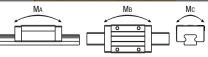
- Grease Fitting is screw-in type, and thus, can be repositioned. For installation and maintenance of Linear Guides, see P. 529

	Part Number								Blo	ck Di	mens	ion							Guid	e Rail	Dimension				
	TY	PE	н	L	w	Lı	В	С	Sxl	L2	к	_	Cb	Grease	e Fitt	ing	H ₁	W ₁	W ₂	Ca	Counterbored Hole	F	G		
	1 block	2 blocks				_ **	L			JAC	LZ	_ K	<u> </u>	CD	Mounting Hole	Е	T ₁		VV I	VVZ	Ca	d1xd2xh		<u>u</u>	
		C-SH2R C-SH2RL	28	220~1960	34	55.9	26	26	M4x5	39.5	24.8	10.2	0.5	M4x0.7	7	9.5	13	15	9.5	0.5	4.5x7.5x6	60	20		
dard	C-SHR C-SHRL		30	220~1960	44	74	32	36	M5x5	54	25.4	8.2	0.5	M6x1	14	6.5	16.5	20	12	0.5	6x9.5x8.5	60	20		
Standard			C-SH2RL	C-SH2RL	40	220~1960	48	80	35	35	M6x6.5	59	34.2	12.15	1.0	M6x1	14	11.5	20	23	12.5	0.9	7x11x9	60	20
			45	280~1960	60	95.3	40	40	M8x10	69.3	38	11	1.0	M6x1	14	11	23	28	16	1.0	9x14x12	80	20		
			24	220~1960	47	55.9	38	30	M5x8	39.5	20.8	8	-	M4x0.7	7	5.5	13	15	16	0.5	4.5x7.5x6	60	20		
Wide Block	C-SHWT		C-SH2WT	30	220~1960	63	74	53	40	M6x10	54	25.4	10	-	M6x1	14	6.5	16.5	20	21.5	0.5	6x9.5x8.5	60	20	
Wide	C-SHWTL	C-SH2WTL	36	220~1960	70	80	57	45	M8x12	59	30.2	12	-	M6x1	14	7.5	20	23	23.5	0.9	7x11x9	60	20		
			42	280~1960	90	95.3	72	52	M10x15	69.3	35	15	-	M6x1	14	8	23	28	31	1.0	9x14x12	80	20		

Allowable Load

kgf=N×0.10972

	Basic Loa	ad Rating	Allowab	le Static	Mass					
Н	C (Dynamic)	C0	MA	Мв	Mc	Bloc	k kg	Guide Rail		
	kN	kN	N∙m	N⋅m	N⋅m	Standard	Wide	kg/m		
24 28	5.1	10.2	54.2	54.2	79.9	0.20	0.20	1.32		
30	8.6	16.8	117.3	117.3	178.6	0.29	0.40	2.28		
36 40	11.0	20.8	158.3	158.3	254.0	0.55	0.62	3.17		
42 45	16.0	29.4	263.4	263.4	432.5	0.85	1.42	4.54		



Preload and Accuracy Standards Interchangeable, Light Preload Type



Radial Clearance (µm)									
H24 H28	-4~+4								
H30	-5~+5								
H36 H40	-6~+6								
H42 H45	-7~+7								

Dimensional Accuracy (µr	n)
Height H Tolerance	±120
Variation of Height H	40
Width W ₂ Tolerance	±120
Variation of Width W2	40
Running Parallelism of Plane C against Plane A	See
Running Parallelism of Plane D against Plane R	P. 525

Similar Product Page 🔤 P.581



Ordering Part Number



Alterations	Code	e Spec.				
3-Block Specifications	В3	Add 2 blocks to 1-block product to ship as 3-block separate item. Selection Example: C-SHR30-400-B3				
4-Block Specifications	B4	Add 3 blocks to 1-block product to ship as 4-block separate item. Selection Example: C-SHR30-400-B4				

L Dimension Configurable Type (10mm Increment)

	Unit Price									
н	1 bl	ock	2 blocks							
	C-SHRL	C-SHWTL	C-SH2RL	C-SH2WTL						
24	-		-							
28		-		-						
30										
36	-		-							
40		-		-						
42	-		-							
45		-		-						

Pror calculation of L Dimension Configurable Type (10mm Increment), add the above amount to the unit price of the Selectable Type longer than, and closest to this L Dimension Configurable Type.



Additional Block Price

	Unit Price									
н	E	33	B4							
	C-SHR	C-SHWT	C-SHR	C-SHWT						
24	-		-							
28		-		-						
30										
36	-		-							
40		-		-						
42	-		-							
45		-		-						

Linear Guides for Extra Super Heavy Load

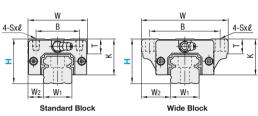
With Plastic Retainers, Interchangeable, Light Preload

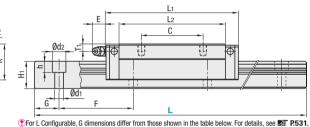
Similar Products Comparison Points | Select this product for high precision positioning, heavy load, and high frequency drive application.



	Ту	ре	Block	Rail	L	Material
	1 block	2 blocks	DIOCK	naii	Dimension	Hardness
Standard	SERZ	SE2RZ	SERB	SHZL	Selectable	
Standard	SERLZ	SE2RLZ	SEND	SHZLF	Configurable	
Wide Block	SEWZ	SE2WZ	SEWB	SHZL	Selectable	Carbon Steel
Through Hole	SEWLZ	SE2WLZ	SEWB	SHZLF	Configurable	58HRC ~
Wide Block Tapped Hole	SEWTZ	SE2WTZ	SEWTB	SHZL	Selectable	
	SEWTLZ	SE2WTLZ	SEWID	SHZLF	Configurable	

Heat Resistant Temperature: 0 ~ 50°C





- Precautions for Use
- Blocks are equipped with retainers to prevent balls from falling off. For how to handle the
- To For Interchangeable, Light Preload Type, rails and blocks can be interchanged.

 Straight grooves are provided on datum planes. Be sure to match the datum lines when using.

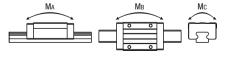
 Rails cannot be connected end to end.
- The accuracy of Linear Guides
- the rail and pushing it onto th Minor bending of the rail will be adjusted after being mounted and will not affect the performance.
- · Filled with Lithium soap based grease (Alvania Grease S2 by Showa Shell Sekiyu K.K).
- Angled Grease Fitting Type
- Grease Fitting is screw-in type, and thus, can be repositioned.
 For Operating Life Calculation, see ► F.527
- fa soft.html.

s is guaranteed	after mount	ng the rai	l (after	fastening screws	on	mol/fa
ne datum plane).						

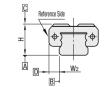
	Part Number					Block Dimension								Guide Rail Dimension							
	Ty	pe	н	L	w	L ₁	В	С	Sxl	L2	К	т	Greas	e Fitti	ng	Hı	W ₁	W2	Counterbored Hole	_	G
	1 block	2 blocks			VV	LI			JAŁ	LZ	Γ.	٠	Mounting Hole	Е	T ₁	п	W 1	VVZ	d1xd2xh	-	G
lock	SERZ SERLZ	SE2RZ SE2RLZ	30	220~1960	44	91.8	32	50	M5x6	72	25	12	M6xP0.75	11	5	18	20	12	6x9.5x8.5	60	20
Standard B	(Block) SERB	(Rail)	36	220~1960	48	107	35	50	M6x6	86	29	12	M6xP0.75	11	6	22	23	12.5	7x11x9	60	20
Sta	OLITO	SHZLF	42	280~1960	60	124.6	40	60	M8x8	98	33	14	M6xP0.75	11	7	26	28	16	9x14x12	80	20
	SEWZ SEWLZ SEWTZ	SE2WZ SE2WLZ SE2WTZ	30	220~1960	63	91.8	53	40	6(M6)	72	25	10	M6xP0.75	11	5	18	20	21.5	6x9.5x8.5	60	20
Wide Bloc	SEWTZ SEWTLZ (Block)	SE2WTLZ (Rail)	36	220~1960	70	107	57	45	7(M8)	86	29	11	M6xP0.75	11	6	22	23	23.5	7x11x9	60	20
	SEWB SEWTB	SHZL SHZLF	42	280~1960	90	124.6	72	52	9(M10)	98	33	11	M6xP0.75	11	7	26	28	31	9x14x12	80	20

Sxℓ Dimensions: Dimensions in () are for Wide Block Tapped Hole.

								Kyi=	100.101972	
		Basic Lo	ad Rating	Allowab	le Static	Moment	Mass			
	н	C (Dynamic) Co (Stat		Ма Мв		Mc	Bloc	Guide Rail		
		kN	kN	N·m N·m		N⋅m	Standard	Wide	kg/m	
7	30	21.6	44.5	360	305	298	0.48	0.65	2.6	
- 7	36	32	62.5	615	515	490	0.69	0.93	3.6	
_	42	46	91.5	1060	885	870	1.16	1.60	5.2	



Preload and Accuracy Standards Interchangeable, Light Preload Type



Radial Clearance (µm)							
H30, 36	-5~0						
H42	-7~0						

- [Dimensional Accuracy (µm)	Interchangeab
ı	Height H Tolerance	±20
ı	Pair Variation of Height H	15
ı	Width W ₂ Tolerance	±30
	Pair Variation of Width W2	25
	Running Parallelism of Plane C against Plane A	See
	Running Parallelism of Plane D against Plane B	P.525

= For customers using industry standard products =

Frame-surrounded products are compliant with the industry standard specifications (Standard Block Type). Select the block from this spec.

	Selectable		1 block			2 blocks	Price s	Rail		Block	
Н	L	SERZ	SEWZ	SEWTZ	SE2RZ	SE2WZ		SHZL	SERB	SEWB	SEWTI
	220	OLITE	OLIVE	OLWIZ	OLLITE	OLLWZ	OLLWIL	OHEL	OLITE	OLIVE	OE WIT
	280										
	340										
	400]		
	460										
	520										
	580										
	640										
	700										
	760 820										
	880										
	940										
	1000										
	1060					i					
30	1120]		
	1180										
	1240										
	1300										
	1360										
	1420										
	1480 1540										
	1600										
	1660										
	1720										
	1780										
	1840								1		
	1900										
	1960										
	220										
	280										
	340										
	400										
	460										
	520 580										
	640				_						
	700										
	760										
	820										
	880										
	940										
	1000								1		
36	1060										
00	1120										
	1180										
	1240										
	1300										
	1360 1420										
	1480										
	1540										
	1600										
	1660								1		
	1720								1		
	1780]		
	1840										
	1900										
	1960										
	280										
	360 440										
	520				_						
	600										
	680										
	760										
	840										
	920								1		
	1000										
42	1080										
72	1160										
	1240										
	1320										
	1400										
	1480										
	1560										
	1640										
	1720 1800										
	1880								-		

L Dimension Configurable Type (1mm Increment)

	Unit Price											
н		1 block				Rails						
	SERLZ	SEWLZ	SEWTLZ	SE2RLZ	SE2WLZ	SE2WTLZ	SHZLF					
30												
36												
42												

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.



Ordering Part Number - L



Alterations Part Number - L - (RLC, LLC···etc.)

Alterations	Code	Spec.
Rail End Cut LLC Equevil N Rail is cut with the product 10 facing out (datum on other side).	Left End Cut LLC Right End Cut RLC	Cuts rail ends. Erdeling Code LLC H
3-Block Specifications	В3	Add 2 blocks to 1-Block product to ship as 3-Block separate item. Selection Example: SERZ30-400-B3
4-Block Specifications	B4	Add 3 blocks to 1-Block product to ship as 4-Block separate item. Selection Example: SERZ30-400-B4

Additional Block Price

н		B3:1Code			B4:1Code	
п	Standard	Wide Through Holes	Wide Tapped Holes	Standard	Wide Through Holes	Wide Tapped Holes
30						
36						
42						

H B3 (3-Block) B4 (4-Block) 400 460 460 520 460 600 4 blocks

Options for Linear Guide





Linear Locks

P.612 Rail Mounting Hole Caps



Linear Guide Lock Units



Linear Guides for Extra Super Heavy Load

Normal Clearance

Select C-VALUE Products for medium-accuracy positioning, medium/low load, and medium-to-low frequency drive applications.

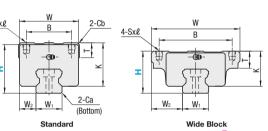
When you consider using C-VALUE Products, select an appropriate model after comparing the specifications with those of the existing products. ET P.585

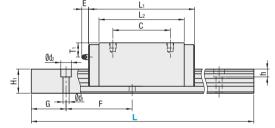


	Ty	/ре	L	Material
	1 block	2 blocks	Dimension	Hardness
dard	C-SER	C-SE2R	Selectable	
Standard Block	C-SERL	C-SE2RL	Configurable	Rails / Blocks: Carbon Steel
중 a	C-SEWT	C-SE2WT	Selectable	58~62HRC
Block Wide	C-SEWTL	C-SE2WTL	Configurable	

Heat Resistant Temperature: -20 ~ 80°C

The mounting dimensions are same for the existing and C-VALUE Products.





For L Configurable, G dimensions differ from those shown in the table below. For details, see 壓 P. 531.

- Precautions for Use

 (This product is All Ball Type. Blocks are equipped with retainers to prevent balls from derailing. For how to handle the blocks, see ▼ P. 525.

 (For Interchangeable, Light Preload Type, rails and blocks can be interchanged.

 (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 dadum 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 (Alvania Grease S2 by Showa Shell Sekiyu K.K).

 Grease Fitting: Straight Type for H24 and Angled Type for products whose H is other than 24.

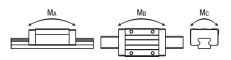
 Grease Fitting is screw-in type, and thus, can be repositioned.

 For installation and maintenance of Linear Guides, see

	Par	rt Number							Blo	ck Di	mens	ion							Guide	Rail	Dimension		
	Ту	ре	н	L	w	L ₁	В	С	Sxl	L ₂	к	т	Cb	Greas	e Fitt	ing	Н1	W ₁	W ₂	Ca	Counterbored Hole	F	G
	1 block	2 blocks				-1			JA2				Ob	Mounting Hole	Е	T ₁		** 1	***2	Oa	d1xd2xh		L
			30	220~1960	44	98	32	50	M5x5	78	25.4	8.2	0.5	M4x0.7	14	6.5	16.5	20	12	0.5	6x9.5x8.5	60	20
Standard	C-SER C-SERL	C-SE2R C-SE2RL	40	220~1960	48	109	35	50	M6x6.5	88	34.2	12.15	1.0	M6x1	14	11.5	20	23	12.5	0.9	7x11x9	60	20
			45	280~1960	60	131	40	60	M8x10	105	38	11	1.0	M6x1	14	11	23	28	16	1.0	9x14x12	80	20
_			30	220~1960	63	98	53	40	M6x10	78	25.4	10	-	M6x1	14	6.5	16.5	20	21.5	0.5	6x9.5x8.5	60	20
Wide Block	C-SEWT C-SEWTL	C-SE2WT C-SE2WTL	36	220~1960	70	109	57	45	M8x12	88	30.2	12	-	M6x1	14	7.5	20	23	23.5	0.9	7x11x9	60	20
>			42	280~1960	90	131	72	52	M10x15	105	35	15	-	M6x1	14	8	23	28	31	1.0	9x14x12	80	20

kgf=N×0.10972

								14710110012
	Basic Loa	ad Rating	Allowab	le Static	Moment		Mass	
н	C (Dynamic)		MA	Мв	Mc	Block	c kg	Guide Rail
	kN	kN	N⋅m	N⋅m	N⋅m	Standard	Wide	kg/m
30	11.3	24.8	260.7	260.7	263.3	0.38	0.53	2.28
36 40	14.8	31.9	380.2	380.2	388.9	0.68	0.78	3.17
42 45	21.8	45.7	654.1	654.1	672.9	1.12	1.77	4.54



Preload and Accuracy Standards Interchangeable, Light Preload Type

a Accuracy Standards	interchangeable, L	igitt i reloau
	Radial Clea	arance (µm)
eference Side	H24 H30	-5~+5
	H36 H40	-6~+6
VACTA)	H42 H45	-7~+7
$ \Psi \langle \cdot \cdot \rangle \Psi $		

Dimensional Accuracy (μm)
Height H Tolerance	±120
Variation of Height H	40
Width W2 Tolerance	±120
Variation of Width W2	40
Running Parallelism of Plane C against Plane A	See
Running Parallelism of Plane D against Plane R	P 525

Similar Product Page 🔤 P.585



Part Number

L 880

C-SER30 C-SEWT30

880



Unit Price

1 block

640

1240

1540

1720 1840

640 700

1240

1540

1840

440

760 840

1240

1640

36 (C-SEWT) 40 (C-SER)

Part Number - L - (B3)

Alterations	Code	Spec.
3-Block Specifications	В3	Add 2 blocks to 1-block product to ship as 3-block separate item. Selection Example: C-SER30-400-B3
4-Block Specifications	B4	Add 3 blocks to 1-block product to ship as 4-block separate item. Selection Example: C-SER30-400-B4

L Dimension Configurable Type (10mm Increment)

			Unit	Price	
	Н	1 bl	ock	2 blo	ocks
l		C-SERL	C-SEWTL	C-SE2RL	C-SE2WTL
	30				
	36	-		-	
	40		-		-
	42	-		-	
	45		-		-

For calculation of L Dimension Configurable Type (10mm Increment), add the above amount to the



Selectable Shortest Rail Length for B3/B4 B3 (3-block) 2 blocks 30 400 460 3 blocks

36, 40

460

42, 45 520 600

580

4 blocks

Additional Block Price

		Unit	Price	
н	В	3	В	4
	C-SER	C-SEWT	C-SER	C-SEWT
30				
36	-		-	
40		-		-
42	-		-	
45		-		-

Linear Guides for Medium/Heavy Load - Stainless Steel

Normal Clearance

Features: Linear Guides for Medium and Heavy Load excellent in corrosion resistance.

Lubrication Units MX Provides long term maintenance-free operation.



Type
Medium Load Heavy Load

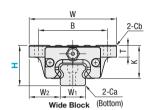
MX (Lubrication Units)

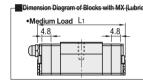
L Dimension of Blocks

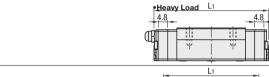
☐ Hardness Selectable Stainless Steel 56HRC~ SSV2RL SSX2RL SSXW SSX2W SSXWL Configurable SSV2WL

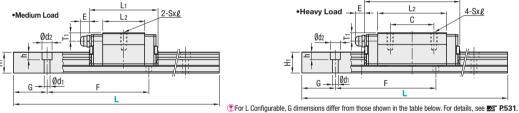
Heat Resistant Temperature: -20 ~ 80°C

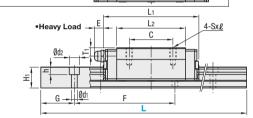
Medium and Heavy Load W 2-Ca W2 W1 Standard Block (Bottom)











■ Precautions for Use

③ Blocks are equipped with retainers to prevent balls from falling off. For how to handle the blocks, see ■ P.525.

- blocks, see
 F525.

 Radial clearances and accuracies are not puranteed 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.

 Radis cannot be connected end to end.

 The accuracy of Linear Guides is guaranteed after mounting the rail (after fastening screws on

- Others

 Filled with Lithium soap based grease (Alvania Grease S2 by Showa Shell Sekiyu K.K).

 Grease Fittings: Straight Type for H24 and Angled Type for H28 and H33.

 Grease Fitting is screw-in type, and thus, can be repositioned.

 For Operating Life Calculation, see ► F527

 For operating life calculations, use our free calculation software from http://download.misumi.jp/mol/fa_soft.html.
- 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.

		Part Number	er							Е	Block E)ime	nsio	n						G	auide F	Rail I	Dimensior	1	
	Туј	ре	MX	Н	L	w	Standard	_1 MX	В	С	Sxl	L2	к	Т	Cb	Grease Mounting Hole			Нı	W ₁	W2	Ca	Counterbored Hole	F	G
Load	(1 block)	(2 blocks)		24	100~700 (160)	34 (52)	41	50.6	26 (41)	-	M4x7 (4.5)	25	20	7 (7)	0.85	M5xP0.8	6	5	12.5	15	9.5 (18.5)	0.5	3.5x6x4.5	60	20
Medium Lo	SSVRL SSVW	SSV2RL SSV2W		28	160~700 (220)	42 (59)	47	56.6	32 (49)	-	M5x8 (5.5)	27.6	22.5	7.5 (9)	1	M6xP0.75	13	6	15.5	20	11 (19.5)	0.6	6x9.5x8.5	60	20
Mec	SSVWL	SSV2WL	Blank: None	33	160~700 (220)	48 (73)	59	68.6	35 (60)	-	M6x9 (7)	37	26.5	8 (10)	1	M6xP0.75	13	6.8	18	23	12.5 (25)	0.8	7x11x9	60	20
oad	(1 block)	(2 blocks)	-MX: Provided	24	100~700 (220)	34 (52)	57	66.6	26 (41)	26	M4x7 (4.5)	41	20	7 (7)	0.5	M5xP0.8	6	5	12.5	15	9.5 (18.5)	0.5	3.5x6x4.5	60	20
Heavy Lo	SSXRL	SSX2RL SSX2W		28	160~700 (220)	42 (59)	67	76.6	32 (49)	32	M5x8 (5.5)	47.6	22.5	7.5 (9)	1	M6xP0.75	13	6	15.5	20	11 (19.5)	0.6	6x9.5x8.5	60	20
유	SSXWL	SSX2WL		33	160~700 (280)	48 (73)	83	92.6	35 (60)	35	M6x9 (7)	61	26.5	8 (10)	1	M6xP0.75	13	6.8	18	23	12.5 (25)	0.8	7x11x9	60	20

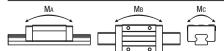
L Dimension: Dimensions in () are for 2-Block Type.

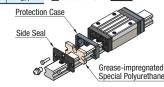
OXX DIIIIOII	ono. Din	iciiololio ili	() 410 101 1	rido Diodic	туро.		kgt	=NXU.1019/2
		Basic Lo	ad Rating	Allowable St	atic Moment		Mass	
Block	н	C (Dynamic)	Co (Static)	Ма, Мв	Mc	Bloc	k kg	Guide Rail
		kN	kN	N·m	N⋅m	Standard	Wide	kg/m
	24	5.0	8.23	33	57	0.15	0.20	1.5
Medium Load	28	7.2	12.1	58	135	0.20	0.25	2.4
	33	11.7	19.6	109	225	0.30	0.40	3.4
	24	8.6	14.2	69	98	0.20	0.25	1.5
Heavy Load	28	12.5	21.3	155	232	0.30	0.35	2.4
	00	20.0	24.5	075	202	0.45	0.00	0.4

Preload and Accuracy Standards

Radial Clea	rance (µm)
H24	-4~+2
H28	-5~+2
H33	-6~+3

Dimensional A	Standard Grade	
Height H Tolerai	±100	
Pair Variation of	20	
Width W ₂ Tolera	±100	
Pair Variation	H24, 28	20
of Width W2	H33	30
Running Parallelism of	See	
Running Parallelism of F	P.525	





Advantages of Lubrication Unit MX: Provides long term maintenance-free operation. Reduces maintenance cost. Most suitable where the design does not allow lubrication For details, see F P.530.

= For customers using industry standard products =

Medium Load

2 blocks

1 block

Selectable L

280

340

400 460

580

640

700 160

220

340

520

28 33

Frame-surrounded products are compliant with the industry standard specifications (Standard Block Type). Select the block from this spec.

Unit Price

Heavy Load

2 blocks

1 block



Ordering Part Number

SSXRI -MX28

- 575 (With Lubrication Units)
- 575 (LTBC Pating)
- 575 (I Type Greased)
(G Type Greased) ●RSXRL28 **SSXRL28G** - 575

LTBC Plating and various Grease types available as alternative (Except Blocks with Lubrication Units) ■ P.532



Part Number - L - (RLC, LLC···etc.)

Alterations	Code	Spec.		
Rail End Cut	Left End Cut LLC	Cuts rail ends. Ordering Code LLC		
Rail is cut with the product ID facing out (datum on other side).	Right End Cut RLC	33		
Parallel Use of 2 Rails	WC	Pair variation of Height H between 2 rails is s within 20µm. Two rails are shipped as a pair. Specify the actual rail quantity (even number) order, not 'pairs'. Not applicable to High Grade Type. Not applicable to we temperature chrome plated produc		
3-Block Specifications	В3	Add 2 blocks to 1-Block product to ship as 3-Block separate item. Selection Example: SSVR24-400-B3		
4-Block Specifications	B4	Add 3 blocks to 1-Block product to ship as 4-Block separate item.		

■Medium Load

Н	B3:1Code			B4:1Code				
	Standard	Wide	Standard MX	Wide MX	Standard	Wide	Standard MX	Wide MX
24								
28								
33								

Н	B3:1Code			B4:1Code				
	Standard	Wide	Standard MX	Wide MX	Standard	Wide	Standard MX	Wide MX
24								
28								
33								

block	
blocks	
blocks	
blooke	

Selectable Shortest Rail Length for R3/R4

Gelectable Gliortest Hall Length for Bo/D4					
н	Mediur	n Load	Heavy Load		
п	B3 (3-Block)	B4 (4-Block)	B3 (3-Block)	B4 (4-Block)	
24	280	340	340	400	
28	340	400	400	460	
33	340	400	400	520	

MX (Lubrication Unit) Unit Price

MIN (Lubrication Only Only Price			
н	Unit Price		
	1 block	2 blocks	
24			
28			
33			

L Dimension Configurable Type (1mm Increment)

Medium Load

1 block 2 blocks

Unit Price

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.

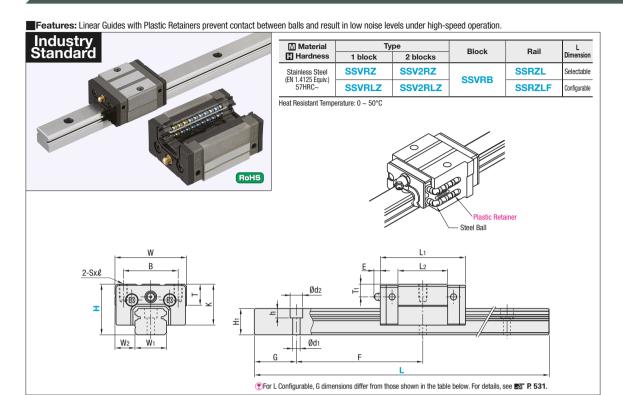
Heavy Load

1 block

Price of Guide Rails with MX (Lubrication Unit) = Linear Guide Unit

Linear Guides for Medium Load - Stainless Steel

With Plastic Retainers, Interchangeable, Light Preload



- Precautions for Use
 ⊕ Blocks are equipped with retainers to prevent balls from falling off. For how to handle the blocks, see F 525.

- blocks, see
 P P 255.
 For InterAnapeable, Light Preload Type, rails and blocks can be interchanged.
 Straight grooves are provided on datum planes. Be sure to match the datum lines when using.
 Palis 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).

 Mimor Bending of the rail will be adjusted after being mounted and will not affect the

- Others

 Filled with Lithium soap based grease (Alvania Grease S2 by Showa Shell Sekiyu K.K).

 Grease Fittings: Straight Type for H24 and Angled Type for H28 and H33.

 Grease Fitting is screw-in type, and thus, can be repositioned.

 For Operating Life Calculation, see Ex P 527

 For operating Life Calculation, see Laccount of the Calculation See Laccount of the Calculation See Laccount Office Calculation See Lacc

Part Number				Block Dimension									Guide Rail Dimension							
Type		L	w		В	Sxℓ	L2	V	-	Grease Fitting			H ₁	W ₁	W ₂	Counterbored Hole	-	G		
1 block	2 blocks	п			, vv	L1		JAK	LZ	I.	'	Mounting Hole	Е	T ₁	nı.	**	VV2	d1×d2×h	-	r G
SSVRZ SSVRLZ	SSV2RZ SSV2RLZ	24	100~1480 (160)	34	40.4	26	M4x6	23.6	19.4	10	Ø3	3	6	12.5	15	9.5	3.5x6x4.5	60	20	
(Block)	(Rail)	28	160~1480 (220)	42	47.2	32	M5x7	30	22	12	M6xP0.75	11	5.5	15.5	20	11	6x9.5x8.5	60	20	
SSVRB	SSRZL SSRZL F	33	160~1480	48	59.6	35	M6x9	38	26	12	M6xP0.75	11	7	18	23	12.5	7x11x9	60	20	

● L Dimension: Dimensions in () are for 2-Block Type

							kgf=Nx0.101972		
	Basic Loa	ad Rating	Allowab	le Static	Moment	Mass			
Н	C (Dynamic) kN	Co (Static) kN	M _A N·m	M _B N·m	Mc N·m	Block kg	Guide Rail kg/m		
24	4.9	7.8	21	18	39	0.14	1.4		
28	7.25	11.8	40	34	80	0.19	2.3		
33	12.7	20.8	96	81	164	0.34	3.1		



Preload and Accuracy Standards

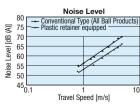
↓ R	eference Side	_
=	(+)	(+)
<u> </u>		
A D-	W2	

Interchangeable, Light Preload T	ype
Radial Clearance (µm)	

Radiai Clearance (µm								
H24, 28	-4~0							
H33	-5~0							

Dimensional Accuracy (µm)	Interchangeable
Height H Tolerance	±20
Pair Variation of Height H	15
Width W ₂ Tolerance	±30
Pair Variation of Width W2	25
Running Parallelism of Plane C against Plane A	See P. 525
Running Parallelism of Plane D against Plane B	See P. 525

Features of Plastic Retainers: Low noise levels and improved sound quality



Lack of mutual contact between balls results in low noise levels and improved sound quality.
 Since there is no mutual contact abrasion between the balls, particle generation is less than those of conventional products.



Selectable Set Rail Block SSVRZ SSVZZ SSRZL SSVRB			Unit Price									
SSVRZ SSVZRZ SSRZL SSVRB	н		S		Rail	Block						
100 160 220 280 280 340 400 460 520 580		-	SSVRZ	SSV2RZ	SSRZL							
220 280 340 400 460 520 580 640 700 700 700 1060 1120 1180 1380 1420 220 280 340 400 400 400 400 400 1000 1000 1000				-								
280 340 400 460 520 580 640 700 700 700 760 880 880 940 1000 1120 1180 1120 1180 1240 1300 1420 1480 160 28 880 940 940 940 940 940 940 940 940 940 94												
340 400 460 520 580 640 700 700 700 700 1060 11000 1060 11120 1180 1380 1420 1480 160 520 280 340 400 460 520 280 380 340 400 1000 1060 1120 1120 1180 1120 1180 160 520 580 640 700 760 28 820 880 880 880 940 1000 1120 1120 1180 1180 1180 1180 118												
400												
460												
\$20 \$60 \$60 \$700 \$700 \$700 \$760 \$820												
\$80 640 700 760 820 880 940 1000 1120 1180 1420 1480 160 1240 1180 1240 1180 1240 1180 1240 1180 126												
640												
700 760 820 880 940 1000 1060 1120 1180 1420 1180 1240 1180 1240 1180 1260												
820 880 940 1000 1120 1180 1240 1220 1280 1220 1280 1220 1280 1220 1220 1230 1220 1230 1360 1220 1240 1300 1360 1360 1220 1220 1280 1360 1220 1280 1360 1420 1420 1300 1360 1360 1420 1420 1300 1360 1420												
880	24											
940 1000 1060 11120 1180 1180 1240 1380 1360 1420 1480 160 220 280 340 400 460 520 580 640 700 1060 1120 1180 1240 1380 1360 1420 1380 340 340 340 340 340 340 340 340 340 34												
1000 1060 1120 1180 1300 1360 1420 1420 1420 1480 16												
1060 1120 1180 11240 1300 1360 1420 1480 160 220 280 340 400 460 520 580 640 700 760 28 820 880 940 1120 1180 160		1000										
1120 1180 1240 1300 1360 1420 1480 160 220 280 340 400 460 520 580 640 700 760 28 820 880 940 11000 1120 11180 1240 1300 1300 1300 1360 1420 1480 160 220 280 33 34 340 340 340 340 340 340 340 340		1060										
1180 1240 1300 1360 1420 1480 160 - 220 280 340 400 460 520 580 640 700 760 28 820 880 940 1100 1120 1180 1300 1360 1420 1480 160 - 220 280 3340 340 340 340 340 340 340 340 340 3		1120										
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1300 1360 1420 1480 160 160 160 1760 1760 180 1760 180												
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1480 160		1360]						
160		1420										
220 280 340 400 460 520 580 640 700 760 28 820 880 940 1000 1060 1120 1180 1420 220 280 340 340 340 340 340 340 340 340 340 34												
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340 400 460 520 580 640 700 760 880 940 1000 1060 11120 1180 1360 1420 1480												
400 460 520 580 640 700 760 28 820 880 940 1000 1120 1180 1240 1300 1360 1420 220 280 340 400 460 520 580 6640 700 760 33 820 880 940 1000 1060 1120 1180 1180 1240 1380 1380 1380 1380 1380 1380 1380 138												
460 520 580 640 700 760 760 820 820 880 940 1000 1120 1180 1240 1300 1360 1420 1480 160 220 280 280 340 400 460 520 580 640 700 760 33 820 880 940 1000 1120 1180 1180 1180 1180 1180 118												
520 580 640 700 760 28 820 880 940 1000 1060 11120 1180 1300 1360 1420 1480												
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760 820 820 880 940 1000 1060 1120 1180 1240 1300 1360 1420 1480]						
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940 1000 1060 1120 1180 1240 1300 1360 1420 1480 160 220 280 340 400 460 520 580 640 700 760 33 820 880 940 1000 1120 1180 1120 1180 1240 1300 1380 1380 1380	28											
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1060 1120 1180 1180 1240 1300 1360 1420 1480 160 220 280 340 400 460 520 580 640 700 760 33 820 880 940 1000 1120 1180 1240 1380 1380 1380 1380 1380						-						
1120 1180 1240 1300 1360 1420 1480 160 - 220 280 340 400 460 520 580 640 700 760 33 820 880 940 1000 1120 1180 1120 1180 1240 1300 1380 1380		1060										
1180 1240 1300 1360 1420 1480 160 220 280 340 400 460 520 580 640 700 760 33 820 880 940 1000 1120 1180 1240 1300 1360 1360 1360 1360		1120										
1420 1480 160 220 280 340 400 460 520 580 640 700 760 33 820 880 940 1000 1120 11180 1240 1300 1360 1420		1180										
1420 1480 160 220 280 340 400 460 520 580 640 700 760 33 820 880 940 1000 1120 11180 1240 1300 1360 1420		1240]						
1420 1480 160 220 280 340 400 460 520 580 640 700 760 33 820 880 940 1000 1120 11180 1240 1300 1360 1420		1300										
1480 160		1360										
160		1420										
220 280 340 400 460 520 580 640 700 760 33 820 880 940 1000 1120 11180 1240 1300 1380 1420												
280 340 400 460 520 580 640 700 760 33 820 880 940 1000 1120 1180 1240 1300 1380		220		-								
340 400 460 520 580 640 700 760 33 820 880 940 1000 1120 1180 1240 1300 1360 1420		280										
400 460 520 580 640 700 760 33 820 880 940 1000 1120 1180 1240 1300 1360		340										
460 520 580 640 700 760 33 820 880 940 1000 1120 1180 1240 1300 1380 1420		400										
580 640 700 760 33 820 880 940 1000 1120 11180 1240 1300 1380 1420		460										
640 700 760 33 820 880 940 1000 1160 1120 1180 1240 1300 1360 1420		520										
700 760 3820 880 940 1000 1060 1120 1180 1240 1300 1360 1420												
760 33 820 880 940 1000 1060 1120 1180 1240 1300 1360 1420		640										
880 940 1000 1060 1120 1180 1240 1300 1360 1420		700										
880 940 1000 1060 1120 1180 1240 1300 1360 1420	33	820										
940 1000 1060 1120 1180 1240 1300 1360	00	880										
1180 1240 1300 1360 1420		940										
1180 1240 1300 1360 1420		1000										
1180 1240 1300 1360 1420		1060										
1180 1240 1300 1360 1420		1120										
1300 1380 1420		1180										
1360		1240										
1360		1300										
1480		1360										
1700		1420										
		1-100			J.	l .						

Alterations	Part Numbe SSVRZ28	r - L - - 640 -	(RLC, LL	_C···e	tc.)			
Alterations	Code		Sp	ec.				
Rail End Cut RLC Especing N L Rail is cut with the product ID	Left End Cut LLC Right End Cut	Cuts rail ends Ordering Code H 24 28 33 ••• Applicable	s. LLC L Cut	N 10	only.			
facing out (datum on other side). 3-Block Specifications	В3	Add 2 blocks separate iten	Overall length will be shorter by cutting. Add 2 blocks to 1-Block product to ship as 3-Block separate item. Selection Example: SSVRZ24-400-B3					
4-Block Specifications	B4	separate iten Selection Ex	n. ample: SSV	RZ24-40				
Position of Grease Fitting (Reference plan	ne on the front sid	Addit	tional Blo		ode			
1 block		Н	В3		B4			
2 blocks		24						
3 blocks		28						
4 blocks		33						
1 blooks		Select	able Short	est Rail	Length for B3/B4			
		Н	B3 (3-B		B4 (4-Block)			
		24	280)	340			
		28	340)	400			
		33	340)	400			
Options for Line			Height A	dinetii	ng Blocks			
Linear Guide Clai	IIPS	Rail Height Adjusting Blocks						
P.608			P.60	09, 610				
Block Derailment Prevention Parts / De	ıst Resistant Pa	ts B	lock / Ra	il Fixin	g Parts			
Stopper Bolts	9		ush Plate					
Plack Stanner Plates	P.61	1_						
Block Stopper Plates	P.61	2	r Locks		P.613			
Rail Mounting Hole Caps	P.61	Linear Guide Lock Units						

L Dimension Configurable Type (1mm Increment)

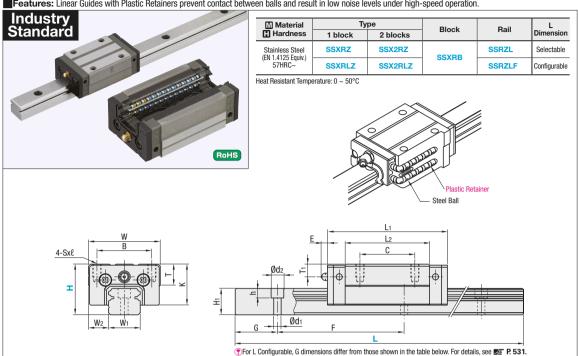
			Unit Price		
H		S	Rails		
		SSVRLZ	SSV2RLZ	SSRZLF	
	24				
	28				
	22				

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.

Linear Guides for Heavy Load - Stainless Steel

With Plastic Retainers, Interchangeable, Light Preload

Features: Linear Guides with Plastic Retainers prevent contact between balls and result in low noise levels under high-speed operation.



Precautions for Use 2. Blocks are equipped with retainers to prevent balls from falling off. For how to handle the blocks, see ▼ P. 525.

For Interchangeable, Light Preload Type, rails and blocks can be interchanged.

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

- Others

 Filled with Lithium soap based grease (Alvania Grease S2 by Showa Shell Sekiyu K.K).

 Grease Fittings: Straight Type for H24 and Angled Type for H28 and H33.

 Grease Fitting is screw-in type, and thus, can be repositioned.

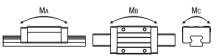
 For Operating Life Calculation, see ▼ F. 527

 For operating Life Calculations, use our free calculation software from http://download.misumi.jp/mol/fa_soft.html.

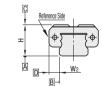
Part Number					Block Dimension									Guide Rail Dimension						
Type H		L	14/	La	В		Sxl	L ₂	K	т	Grease Fitting			Н1	W ₁	W ₂	Counterbored Hole	-	G	
1 block	2 blocks	-		**	L ₁	_ B		JAŁ	L2	, n	'	Mounting Hole	Е	T ₁	,	44.1	VV2	d1xd2xh	г	G
SSXRZ SSXRLZ	SSX2RZ SSX2RLZ	24	100~1480 (160)	34	56.8	26	26	M4x6	40	19.4	10	Ø3	3	6	12.5	15	9.5	3.5x6x4.5	60	20
(Block)	(Rail)	28	160~1480 (220)	42	65.2	32	32	M5x7	48	22	12	M6xP0.75	11	5.5	15.5	20	11	6x9.5x8.5	60	20
SSXRB	SSRZL SSRZLF	33	160~1480	48	81.6	35	35	M6x9	60	26	12	M6xP0.75	11	7	18	23	12.5	7x11x9	60	20

• L Dimension: Dimensions in () are for 2-Block Type.

						kgt=	=NXU.101972	
	Basic Loa	ad Rating	Allowab	le Static	Moment	Mass		
Н	C (Dynamic) kN	Co (Static) kN	M _A N∙m	M _B N∙m	Mc N⋅m	Block kg	Guide Rail kg/m	
24	7.9	15.6	74	62	78	0.20	1.4	
28	11.1	21.8	124	104	149	0.28	2.3	
33	17.9	33.5	242	203	266	0.51	3.1	



■Preload and Accuracy Standards

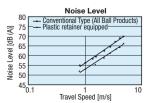


Interchangeable, Light Preload Type

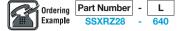
Radial Clearance (µm									
H24, 28	-4~0								
H33	-5~0								

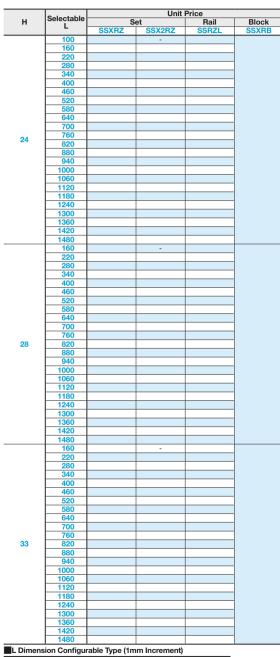
Dimensional Accuracy (µm)	Interchangeabl
Height H Tolerance	±20
Pair Variation of Height H	15
Width W ₂ Tolerance	±30
Pair Variation of Width W ₂	25
Running Parallelism of Plane C against Plane A	See P. 52 5
Running Parallelism of Plane D against Plane B	366 F. 323

Features of Plastic Retainers: Low noise levels and improved sound quality



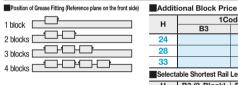
· Lack of mutual contact between balls results in low noise levels and improved sound quality.







Alterations	Code	Spec.
Rail End Cut LLC RLC L N N L Rail is cut with the product ID facing out (datum on other side).	Left End Cut LLC	Cuts rail ends.
3-Block Specifications	В3	Add 2 blocks to 1-Block product to ship as 3-Block separate item. Selection Example: SSXRZ24-400-B3
4-Block Specifications	B4	Add 3 Blocks to 1-Block product to ship as 4-Block separate item. Selection Example: SSXRZ24-400-B4



	Addit	IONAL DIOCK Pric	.e				
	н	1Code					
		B3	B4				
	24						
	28						
	33						
	Selectable Shortest Rail Length for B3/B4						

Selectable Shortest Rail Length for B3/B4					
Н	B3 (3-Block)	B4 (4-Block)			
24	340	400			
28	400	460			
33	400	520			

■ Options for Linear Guide



н			Unit Price	
		S	Rails	
		SSXRLZ	SSX2RLZ	SSRZLF
	24			
	28			
	33			

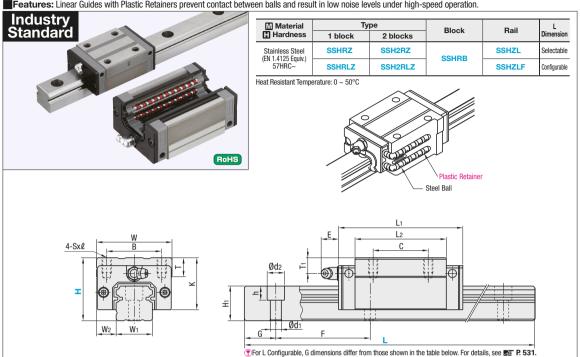
The state of the s Selectable Type longer than, and closest to this L Dimension Configurable Type.

[·] Since there is no mutual contact abrasion between the balls, particle generation is less than those of conventional products.

Linear Guides for Super Heavy Load - Stainless Steel

With Plastic Retainers, Interchangeable, Light Preload

Features: Linear Guides with Plastic Retainers prevent contact between balls and result in low noise levels under high-speed operation.



- Precautions for Use

- Precautions for Use 25. Blocks are equipped with retainers to prevent balls from falling off. For how to handle the blocks, see ₹ P. 525.

 For Interchangeable, Light Preload Type, rails and blocks can be interchanged.

 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 control of the contr
- 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

- Tothers

 Filled with Lithium soap based grease (Alvania Grease S2 by Showa Shell Sekiyu K.K).

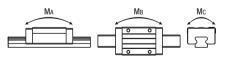
 Angled Grease Fitting Type
 Grease Fitting is screw-in type, and thus, can be repositioned.

 For Operating Life Calculation, see ▼ P. 527

 For operating Life calculation, see our free calculation software from http://download.misumi.io/molf/s.ca/it.html

Pa	rt Number			Block Dimension					1	Guide Rail Dimension																						
Type		н	L	L	L	L	L	L	L	L	L	L	L	L	L	w	La	ь	С	Sxl	L ₂	ĸ	кТ	- Grease		Fitting		W ₁	W ₂	Counterbored Hole	_	G
1 block	2 blocks	-	٧٧		L1	P	•	3A£	L2		'	Mounting Hole	Е	T ₁	H ₁	441	W2	d1xd2xh	г	r G												
SSHRZ SSHRLZ	SSH2RZ SSH2RLZ	30	220~1480	44	69.8	32	36	M5x6	50	25	12	M6xP0.75	11	5	18	20	12	6x9.5x8.5	60	20												
(Block) SSHRB	(Rail) SSHZL SSHZLF	40	220~1480	48	79	35	35	M6x9	58	33	12	M6xP0.75	11	10	22	23	12.5	7x11x9	60	20												

							kgf=	=Nx0.101972
Ī		Basic Loa	ad Rating	Allowab	le Static	Mass		
Н	н	C (Dynamic) kN	Co (Static) kN	Ma N∙m	M _B N∙m	Mc N∙m	Block kg	Guide Rail kg/m
	30	16.3	29.6	167	141	199	0.33	2.6
	40	22.4	37.5	246	207	295	0,55	3.6



Preload and Accuracy Standards

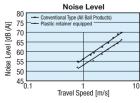


Interchangeable, Light Preload Type						
Radial Clearance (µm)						
H30, 40						

See P. 525

		_
	Dimensional Accuracy (µm)	Interchangeable
→	Height H Tolerance	±20
(Y)	Pair Variation of Height H	15
	Width W ₂ Tolerance	±30
	Pair Variation of Width W2	25
	Running Parallelism of Plane C against Plane A	Coo D ESE

Features of Plastic Retainers: Low noise levels and improved sound quality



Ordering Part Number

			Unit	Price	
Н	Selectable L	S	et	Rail	Block
		SSHRZ	SSH2RZ	SSHZL	SSHRB
	220				
	280				
	340				
	400				
	460				
	520				
	580				
	640				
	700				
	760				
30	820				
30	880				
	940				
	1000				
	1060				
	1120				
	1180				
	1240				
	1300				
	1360				
	1420				
	1480				
	220				
	280				
	340				
	400				
	460				
	520				
	580				
	640				
	700				
	760				
40	820				
	880				
	940				
	1000				
	1060 1120				
	1180 1240				
	1300				
	1300				
	1420				
	1480				
	1400				

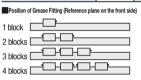
■L Dimension Configurable Type (1mm Inc

			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
		Unit Price					
н		S	Rails				
		SSHRLZ	SSH2RLZ	SSHZLF			
	30						
	40						

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.



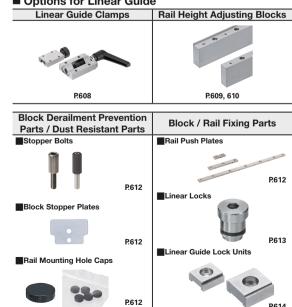
Alterations	Code	Spec.		
Rail End Cut	Left End Cut LLC	Cuts rail ends. Ordering Code LLC		
L N N L		<u>30</u> 10 10		
Rail is cut with the product ID facing out (datum on other side).	Right End Cut RLC	• Applicable to Selectable Type only. • Overall length will be shorter by cutting.		
3-Block Specifications	В3	Adds 1 block to 2-Block product to ship as 3-Block separate item. Selection Example: SSHRZ30-400-B3		
4-Block Specifications	B4	Adds 2 blocks to 2-Block product to ship as 4-Block separate item. Selection Example: SSHRZ30-400-B4		



■Additional Block Price 30 40

Selectable Shortest Rail Length for B3/B4 H B3 (3-Block) B4 (4-Block) 30 340 400 40 400 460

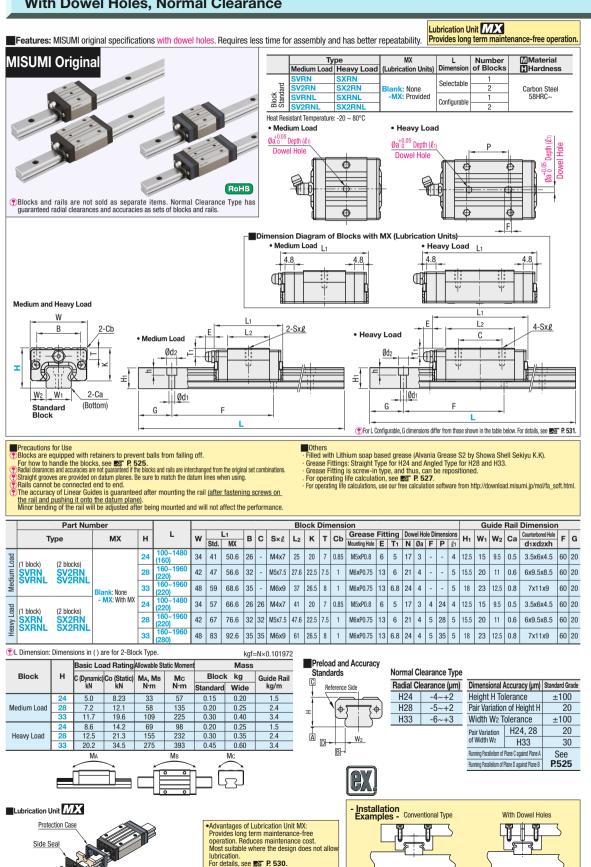
■ Options for Linear Guide



Lack of mutual contact between balls results in low noise levels and improved sound quality.
 Since there is no mutual contact abrasion between the balls, particle generation is less than those of conventional products.

Linear Guides for Medium/Heavy Load

With Dowel Holes, Normal Clearance



Positioning on the basis of plate end face

Positioning using a dowel hole



Part Number

(With Lubrication Units) 880 SVRN-MX28 (LTBC Plating) (L Type Greased RVRN28

SVRN28G LTBC Plating and various Grease types available as alternative (Except

№ P532

Part Number - L -

(TMS, TMC, RLC, LLC, B3, B4)

Alterations Code Spec. TMS: Tapped Hole Machining + 2 Stopper Plates Adds tapped holes on both rail ends to avoid block H24 M3×P0.5 Depth 5 Tapped Hole For Stopper Plates Details, see **P. 612**.

• Applicable to Carbon Steel Type only Block Stopper Plat Cuts rail ends Left End Cut Ordering Code LLC Right End Cu Applicable to Selectable Type only.
Overall length will be shorter by cutting.
Not applicable to H dimension 24 of L dimension 100. Rail is cut with the product ID facing out (datum on other side). RLC Add 2 blocks to 1-block product to ship as 3-Block Specifications 3-block separate item. Selection Example: SXRN24-400-B3 Add 3 blocks to 1-block product to ship as 4-Block Specifications 4-block separate item. Selection Example: SXRN24-400-B4

■Medium Load

Н	B3: Pric	e Adder	B4: Price Adder				
	Standard	Standard MX	Standard	Standard MX			
24							
28							
33							

Н	Do: Pric	e Adder	D4: Price Adder			
	Standard	Standard MX	Standard	Standard MX		
24						
28						
33						
	$\overline{}$					

3 blocks 4 blocks

Selectar	Selectable Shortest Hall Length for B3/B4							
н	Mediur	n Load	Heavy Load					
	B3 (3-block)	B4 (4-block)	B3 (3-block)	B4 (4-block)				
24	280	340	340	400				
28	340	400	400	460				
33	340	400	400	520				

The state of the s

	-	Madiu	Unit I		y Load
Н	L -	1 block		1 block	2 blocks
	1 -	SVRN	2 blocks SV2RN	SXRN	2 blocks SX2RN
	100	SVIN	SVZNIV	JANN	SAZHIV
	100 160		-		-
	220				-
	280				
	340				
	400				
	460				
	520				
	580				
	640				
24	700				
	760				
	820				
	880				
	940				
	1000				
	*1120				
	*1240				
	*1360				
	*1480				
	160		-		-
	220				
	280				
	340				
	400				
	460				
	520				
	580				
	640				
	700 760				
28	820				
20	880				
	940				
	1000				
	*1120				
	*1240				
	*1360				
	*1480				
	*1600				
	*1720				
	*1840				
	*1960				
	160		-		-
	220				-
	280				
	340				
	400				
	460				
	520				
	580				
	700				
33	760 820				
30	880				
	940				
	1000				
	*1120				
	*1240				
	*1360				
	*1480				
	*1600				
	*1720				
	*1840				
	*1960				

L Dimension Configurable Type (1mm Increment)

		Unit	Price	
н	Mediu	n Load	Heav	/ Load
п	1 block	2 blocks	1 block	2 blocks
	SVRNL	SV2RNL	SXRNL	SX2RNL
24				
28				
33				

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.

MX (Lubrication Unit) Unit Price

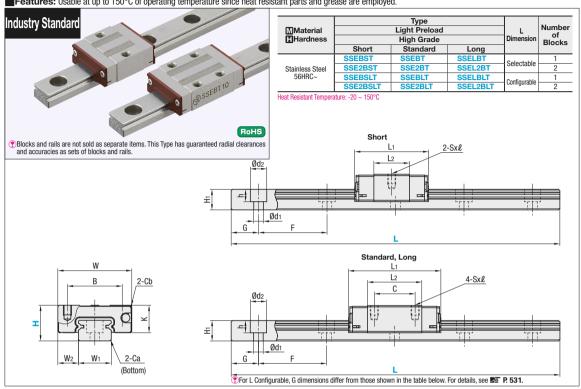
н	Unit	Price			
п	1 block	2 blocks			
24					
28					
33					

Price of Guide Rail with MX (Lubrication Unit) = Linear Guide Unit Price + MX Unit Price

Miniature Linear Guides - Heat Resistant

Short / Standard / Long Blocks, Light Preload

Features: Usable at up to 150°C of operating temperature since heat resistant parts and grease are employed.



- Precautions for Use

 Blocks are equipped with retainers (wire) to prevent balls from falling off.

 For how to handle the blocks, see F F. 525.
- For how to handle the blocks, see
 P. 7.525.

 **Radial clearances and accuracies are not guaranteed if the blocks and rails are interchanged from the original set combinations.

 **Straight grows 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 <u>dater fastening screws on the rail and pushing it onto the datum plane</u>). Minor bending of the rail will be adjusted after being mounted and will not affect the performance.

- Accessory

 · H8 comes with cap screws (M2x6).

Filled with heat resistant grease (Du Pont KRYTOX GPL225).

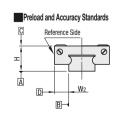
Stainless steel and fluoro-rubber are used for return caps and seals respectively.

For operating life calculation, see ET P. 527.

For operating life calculations, use our free calculation software from http://download.misumi.jp/

Par	Part Number			Block	Block Dimension					Guide Rail Dimension									
T	Туре Н		L	Type	W	L ₁	В	С	S×ℓ	L2	K	Cb	H ₁	W ₁	W ₂	Ca	Counterbored Hole d1xd2xh	F	G
Dimensions in () are for 2-Block Type.	8	40~130	Short	47	19.6	10	-	MO. 0. 5	9.6	0.5		4.7	_	_		0.4.40.00	45	_
	, a.o ioi 2 210011 iypoi	8	(70)	Standard Long	17	23.6 32	12	8 13	M2x2.5	13.6	6.5	0.3	4.7	7	5	0.3	2.4x4.2x2.3	15	5
Short (1 block)	(2 blocks)		35~275	Short		22.9		-		11.9									
SSEBST	SSE2BST_	10	(95)	Standard	20	30	15	10	M3x3	19	7.8	0.3	5.5	9	5.5	0.3	3.5x6x3.5	20	7.5
SSEBSLT	SSE2BSLT		55~275 (95)	Long		40		16		29									
Standard (1 block)	(2 blocks)		45~470	Short		27		-		13									
SSEBT	SSE2BT	13	(120)	Standard	27	33.9	20	15	M3x3.5	19.9	10	0.5	7.5	12	7.5	0.5	3.5x6x4.5	25	10
SSEBLT	SSE2BLT		70~470 (120)	Long		45.8		20	MOXO.0	31.8	10	0.0	7.0		7.0	0.0	0.0x0x1.0		
Long (1 block)	(2 blocks)		70~670	Short		32.7		-		17.7									
SSELBT	SSEL2BT	16	(150)	Standard	32	42.4	25	20	M3x4	27.4	12	0.5	9.5	15	8.5	0.5	3.5x6x4.5	40	15
SSELBLT	SSEL2BLT		110~670 (150)	Long		58.3		25	INIOXI	43.3		0.0	0.0		0.0	0.0	0.000001.0	10	

							Kgf=N>	0.101972
	Block	Basic Lo	ad Rating	Allowab	le Static	Mass		
Н	Туре	C (Dynamic) kN	Co (Static) kN	MA N·m	M _B N⋅m	Mc N·m	Block kg	Guide Rail kg/m
	Short	0.79	1.27	1.9	1.6	4.6	0.008	
8	Standard	0.9	1.5	4.1	4.1	5.2	0.01	0.19
	Long	1.6	2.4	7.5	7.5	9	0.02	
	Short	1.16	1.68	3.1	2.6	7.9	0.015	
10	Standard	1.5	2.5	5.1	5.1	10.2	0.02	0.31
	Long	2.2	3.7	12.3	12.3	13	0.03	
	Short	1.63	2.38	5.2	4.4	14.8	0.025	
13	Standard	2.2	3.3	8.8	9.5	16.1	0.04	0.61
	Long	3.5	5.3	24.5	26.4	32.3	0.06	
	Short	3.08	4.23	12.3	10.3	32.6	0.05	
16	Standard	3.6	5.4	21.6	23.4	39.6	0.06	1.02
	Long	5.8	8.7	57.8	62.6	67.6	0.1	
	Ma			Me	3	1	Ис	



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



	Unit Pr					Price			
н	L	Sh	ort	Stan	dard	Long			
	-	SSEBST	SSE2BST	SSEBT	SSE2BT	SSELBT	SSEL2BT		
	40		-		-		-		
	55		-		-		-		
	70								
8	85								
	100								
	115								
	130								
	35		-		-	-	-		
	55		-		-		-		
	75		-		-		-		
	95 115								
	135								
10	155								
	175								
	195								
	215								
	235								
	255								
	275								
	45		-		-	-	-		
	70		-		-		-		
	95		-		-		-		
	120								
	145								
	170								
	195								
	220 245								
13	270								
	295								
	320								
	345								
	370								
	395								
	420								
	445								
	470								
	70		-		-	-	-		
	110		-		-		-		
	150								
	190								
	230								
	270 310								
	350								
16	390								
	430								
	470								
	510								
	550								
	590								
	630								
	670								



Ī		Unit Price						
	Н	Short		Stan	dard	Long		
		SSEBSLT	SSE2BSLT	SSEBLT	SSE2BLT	SSELBLT	SSEL2BLT	
	8							
	10							
	13							
	16							

The state of the s unit price of the Selectable Type longer than, and closest to this L Dimension Configurable Type.

	Part Number - L - SSEBLT16 - 450 -	(MC, RLC, LLC, B3, B4)
Alterations	SSEBLT16 - 450 -	MC

Spec.

Code

Alterations

10 Standar

13 Standar

16 Standan

Long

Short

Long

Short

Long

	Tapped	d Hole ⇒	МС	Changes from cou holes.	the rail mount nterbored hole	ing holes — s to tapped — —	H MC 8 M3 10 M4 16 M5				
Ш	Engra	RLC	Left End Cut	H 10 13	Code LLC L Cu 2.5	t N 5	-				
ID		N L h the product t (datum on	Right End Cut RLC	Overa	II length will b oplicable to H	table Type only. he shorter by cuttir 8. 35 of H10 and L45					
3	-Block Spo	ecifications	В3	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: SSEBST10-95-B3							
4	-Block Spo	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: SSELBT16-550-84								
Additional Block Price			ce	S	electable S	hortest Rail Le	ngth for B3/B4				
Н	Block	B3: Price Adder	B4: Price Adder	. н	Block	B3 (3-block)	B4 (4-block)				
	Short				Short	85	100				
8	Standard			8	Standard	85	115				
	Long	-	-		Long	-	-				
	Short				Short	95	115				

10 Standard

Long

Short

Standard

Long

Short

Long

Standard

115

155

120

145

170

150

190

230

155

195 145

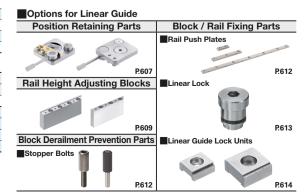
170

220

230

270

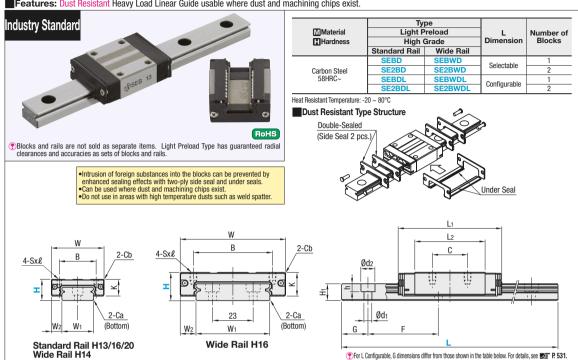
190



Miniature Linear Guides - Dust Resistant

Standard Blocks, Light Preload

Features: Dust Resistant Heavy Load Linear Guide usable where dust and machining chips exist.



- Precautions for Use
- 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.

 Staling through the provided on datum planes. Be sure to match the datum lines when using.

 Rails cannot be connected end to end.
- Mails 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).

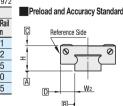
 Minor bending of the rail will be adjusted after being mounted and will not affect the performance.

	Part	Number			Block Dimension									Guide Rail Dimension						
	Туре Н		Н	L	w	L ₁	В	С	Sxl	L ₂	K	Cb	H ₁	W ₁	W ₂	Ca	Counterbored Hole d1xd2xh	F	G	
Rall	(1 block)	(O blooks)	13	45~470 (120)	27	36.9	20	15	M3x3.5	19.9	11	0.5	7.5	12	7.5	0.5	3.5x6x4.5	25	10	
dard	SEBDL SEBDL	(2 blocks) SE2BD SE2BDL	16	70~670 (150)	32	45.4	25	20	M3x4	27.4	13	0.5	9.5	15	8.5	0.5	3.5x6x4.5	40	15	
otal			20	100~700 (160)	40	53	30	25	M4x6	34.6	16	0.5	11	20	10	0.5	6x9.5x5.5	60	20	
Zal	(1 block) SEBWD	(2 blocks) SE2BWD	14	70~470 (150)	40	47.3	28	15	M3x3.5	30.1	12	0.5	8	24	8	0.5	4.5x8x4.5	40	15	
wide	SEBWDL	SE2BWDL	16	70~670 (190)	60	58	45	20	M4x4.5	40	14	0.5	9.5	42	9	0.5	4.5x8x4.5	40	15	

Dimensions in () are for 2-Block Type.

							ryi—iv.	XU.1013/2	
					le Static	Moment	Ma	ass	
Н		C (Dynamic) kN	Co (Static) kN	MA N·m	MB N·m	Mc N·m	Block kg	Guide Rail kg/m	
	13	2.2	3.3	8.8	9.5	16.1	0.045	0.61	
Standard Rail	16	3.6	5.4	21.6	23.4	39.6	0.065	1.02	
	20	5.2	8.5	48.4	48.4	86.4	0.13	1.65	
Wide Rail	14	3.5	5.3	20.6	22.3	52.1	0.085	1.40	
Wide hall	16	5.8	8.5	40.2	43.6	148	0.16	2 95	

5.8 | 8.5 | 40.2 | 43.6 | 148 | 0.16 | 2.95



		Unit: µ
Accuracy Standards	Specifications	Light Preloa High Grade
nce Side	Radial Clearance	-3~0
	Height H Tolerance	±20
	Pair Variation of Height H	15
	Width W ₂ Tolerance	±25
	Pair Variation of Width W2	20
W2_	Running Parallelism of Plane C against Plane A	See
\vdash	Running Parallelism of Plane D against Plane A	P. 525

■Seal Resistance (N)

		~ ()	
Rail Width	Height (H)	Standard	Dust Resistant
	13	0.7	1.0
Standard	16	0.8	1.1
	20	1.2	1.5
Wide	14	1.0	1.3
wide	16	1.2	1.5

■ Others · Filled with Lithium soap based grease (Multemp Grease PS2 by Kyodo Yushi Co., Ltd.).

For operating life calculations, see ≥ P. 527.

For operating life calculations, use our free calculation software from http://download.misumi.jp/

Data above are reference values.



■Wide Rail Standard Rail

		Unit	Price			Unit Price				
Н	L	1 block	2 blocks	Н	L	1 block	2 blocks			
		SEBD	SE2BD		İ	SEBWD	SE2BWD			
	45		-		70		-			
	70		-		110		-			
	95		-		150					
	120				190					
	145				230					
	170			14	270					
	195				310					
	220				350					
13	245				390					
13	270				430					
	295				470					
	320				70		-			
	345				110		-			
	370				150		-			
	395				190					
	420				230					
	445				270					
	470				310					
	70		-	16	350					
	110		-		390					
	150				430					
	190				470					
	230				510					
	270				550					
	310				590					
16	350				630					
	390				670					
	430									
	470									
	510									
	550									

20

13 · 14 16 20

L Dimension Configurable Type (1mm Increment)

Standard Rail

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.

Unit Price

1 block 2 blocks 1 block 2 blocks

SEBDL SE2BDL SEBWDL SE2BWDL

Wide Rail



Part Number - L -

(RLC, LLC, B3, B4)

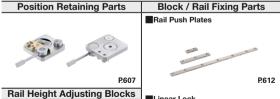
Alterations	Alterations Code Spec					
Rail End Cut	Left End Cut	Cuts rail ends. Ordering Code LLC				
Rail is cut with the product ID facing out (datum on other side).	Right End Cut RLC	Wide 14 5 10 Papplicable to Selectable Type only. Overall length will be shorter by cutting.				
3-Block Specifications	В3	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: SEB013-270-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: SEBWD14-430-B4				

				_	
Н	Rail	B3: Price Adder	B4: Price Adder	н	Block
13	Standard			13	Standa
ıs	Wide	-	-	13	Wide
14	Standard	-	-	14	Standa
14	Wide			14	Wide
16	Standard			16	Standa
10	Wide			10	Mida

Additional Block Price Selectable Shortest Rail Length for B3/B4 145 195 230 190 190 230 230 270 Standard 220 280 Wide

Options for Linear Guide

Standard







Block Derailment Prevention Parts Linear Guide Lock Units







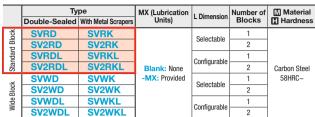
Linear Guides for Medium Load - Dust Resistant

With Double Seals / Metal Scrapers, Normal Clearance

Features: Dust Resistant Heavy Load Linear Guide usable where dust and machining chips exist.

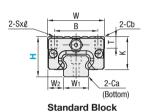
Lubrication Units MX

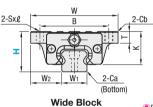


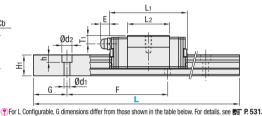


Heat Resistant Temperature: -20 ~ 80°C

Dimension Diagram of Blocks with MX (Lubrication Units)







- Straight grooves are provided on datum planes. Be sure to match the datum lines when using.
- Palis 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.

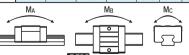
- Filled with Lithium soap based grease (Alvania Grease S2 by Showa Shell Sekiyu K.K).
 Grease Fittings: Straight Type for H24 and Angled Type for H28 and H33.
 Grease Fitting is screw-in type, and thus, can be repositioned.

- . For Operating Life Calculation, see E P. 527
 For operating life calculations, use our free calculation software from http://download.misumi.

		Part Number					Block Dimension											Guide Rail Dimension						
	Тур	ре	MX	Н	L	w	L Standard	1 MX	В	Sxℓ	L2	к	т	Cb	Grease Mounting Hole		ng T1	H ₁	W ₁	W2	Ca	Counterbored Hole d1xd2xh	F	G
Block	(1 block)	(2 blocks)		24	160 ~1480	34	46 (42.6)	55.6 (52.2)	26	M4x7	25	20	7	0.85	M5xP0.8	6	5	12.5	15	9.5	0.5	3.5x6x4.5	60	20
Standard B		SV2RD SV2RK SV2RDL		28	220 ~1960	42	53.4 (49)	63 (58.6)	32	M5x8	27.6	22.5	7.5	1	M6xP0.75	13	6	15.5	20	11	0.6	6x9.5x8.5	60	20
Stan	SVRKL	SV2RKL	Blank: None	33	220 ~1960	48	66 (61.4)	75.6 (71)	35	M6x9	37	26.5	8	1	M6xP0.75	13	6.8	18	23	12.5	8.0	7x11x9	60	20
송	(1 block) SVWD	(2 blocks) SV2WD	-MX: Provided	24	160 ~1480	52	46 (42.6)	55.6 (52.2)	41	4.5	25	20	7	0.5	M5xP0.8	6	5	12.5	15	18.5	0.5	3.5x6x4.5	60	20
Wide Block	SVWK SVWDL	SV2WK SV2WDL		28	220 ~1960	59	53.4 (49)	63 (58.6)	49	5.5	27.6	22.5	9	1	M6xP0.75	13	6	15.5	20	19.5	0.6	6x9.5x8.5	60	20
×	SVWKL	SV2WKL		33	220 ~1960	73	66 (61.4)	75.6 (71)	60	7	37	26.5	10	1	M6xP0.75	13	6.8	18	23	25	0.8	7x11x9	60	20

Dimensions in () are for Metal Scraper Type.

								kgf=N	x0.10197
	Basic Lo	ad Rating	Allowable St	atic Moment			Mass		
н	C (Dynamic) Co (Static) MA, MB MC Block kg							0 D.:	
п	kN	kN	N·m	Mc N⋅m	Double-	-Sealed	With Meta	I Scrapers	Guide Rai
	l Kit				Standard	Wide	Standard	Wide	Ng/III
24	5.0	8.23	33	57	0.16	0.21	0.16	0.21	1.5
28	7.2	12.1	58	135	0.22	0.27	0.22	0.27	2.4
33	11.7	19.6	109	225	0.33	0.43	0.34	0.44	3.4



Preload and Accuracy Standards

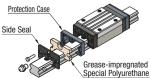


	Norma	Clearance Type
_	Radial	Clearance (µm)
γ Φ)	H24	-4~+2
5	H28	-5~+2
	H33	-6~+3

With Metal Scrapers

Dimensional A	Standard Grade			
Height H Tole	±100			
Pair Variation	of Height H	20		
Width W ₂ Tol	erance	±100		
Pair Variation	H24·28	20		
of Width W2	H33	30		
Running Parallelism of I	See			
Running Parallelism of I	Plane D against Plane B	P.525		

■ Double-Sealed



· Advantages of Lubrication Unit MX: Provides long term maintenance-free operation. Reduces maintenance cost.

Most suitable where the design does not allow lubrication.

For details, see F F 530.

sealing effect and prevents intrusion of foreign substances into the block. Can be used where dust and machining chips exist. Sliding resistance of Double-Sealed Type is higher than that of Standard Type

Larger foreign substances adhered to the rail can be removed by attaching metal scrapers on the external side of the side seals. Can be used in areas with high temperature dusts such as = For customers using industry standard products =

400

940

400 520

640 700

220

640

700

Frame-surrounded products are compliant with the industry standard specifications (Standard Block Type). Select the block from this spec.

2 blocks



Ordering Part Number

880 (With Lubrication Units)

880 (L Type Greased) - 880 (G Type Greased)

Alternative grease types available (Except Blocks with Lubrication Units)



Part Number - L - (TMS, TMC, RLC, LLC···etc.)

Alterations	Code	Spec.
TMS:Tapped Hole Machining + 2 Stopper Plates TMC: Tapped Hole Machining only Block Stopper Plate	TMS TMC	Adds tapped holes on both rail ends to avoid block fall-off. H24 H28, 33 M3xP0.5 Depth 5 Tapped Hole For Stopper Plates Details, see P.621.
Rail End Cut LLC RLC Essayang N L Rail is cut with the product ID facing out (datum on other side).	Left End Cut LLC Right End Cut RLC	Cuts rail ends. Ordering Code LLC
Parallel Use of 2 Rails	WC	Pair variation of Height H between 2 rails is set within 20µm. Two rails are shipped as a pair. • Specify the actual rail quantity (even number) to order, not "pairs". Not applicable to High Grade Type. Not applicable to low temperature chrome plated products.
3-Block Specifications	В3	Add 2 blocks to 1-Block product to ship as 3-Block separate item. Selection Example: SVRD24-400-B3
4-Block Specifications	B4	Add 3 blocks to 1-Block product to ship as 4-Block separate item. Selection Example: SVRD24-400-B4

Additional Block Price

		B3: 1	Code		B4: 1Code						
Н	Double-	-Sealed	With Meta	I Scrapers	Double	-Sealed	With Metal Scrapers				
	Standard	Wide	Standard	Wide	Standard	Wide	Standard	Wide			
24											
28											
33											

Position of Grease Fitting (Reference plane on the front side)

Select	Selectable Shortest Rail Length for B3/B4								
Н	B3 (3-Block)	B4 (4-Block)							
24	280	340							
28	340	400							
33	340	400							
	•								

4 blocks MX (Lubrication Unit) Unit Price

н	Unit Price							
п	1 block	2 blocks						
24								
28								
22								

Price of Guide Rails with MX (Lubrication Unit) = Linear Guide Unit Price + MX Unit Price

L Dimension Configurable Type (1mm Increment)

		Unit Price											
н		1 bl	ock		2 blocks								
	SVRDL	SVRKL	SVWDL	SVWKL	SV2RDL	SV2RKL	SV2WDL	SV2WKL					
24													
28													
33													

TFor 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.

Linear Guides for Heavy Load - Dust Resistant

With Double Seals / Metal Scrapers, Normal Clearance

Features: Dust Resistant Heavy Load Linear Guide usable where dust and machining chips exist.

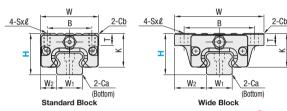
Lubrication Units MX Provides long term maintena

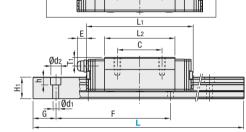


MX (Lubrication Units) Number of Blocks Material Hardness Double-Sealed With Metal Scrapers SXRK Selectable SX2RK SXRDL SXRKL SX2RDL SX2RKL Blank: None Carbon Steel SXWD SXWK SX2WD SX2WK SXWKL SXWDL SX2WDL SX2WKL

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

Heat Resistant Temperature: -20 ~ 80°C Dimension Diagram of Blocks with MX (Lubrication Units)





● For L Configurable G dimensions differ from those shown in the table below For details see ▶ ₽ 531

- 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.
- Filled with Lithium soap based grease (Alvania Grease S2 by Showa Shell Sekiyu K.K).
 Grease Fittings: Straight Type for H24 and Angled Type for H28 and H33.

- Grease Fitting is screw-in type, and thus, can be repositioned. For Operating Life Calculation, see <u>물론</u> P 527 For operating life calculations, use our free calculation software from http://download.misumi.

		Part Numb	oer				Block Dimension									G	uide l	Rail [Dimension	1					
	Туре		мх	н	L	w	L	.1	В	С	S×£	L2	к	т	Cb	Grease	Fitti	ng	H ₁	W ₁	W ₂	Ca	Counterbored Hole	_	G
	l y	pe	IVIA				Standard	MX			JAE				CD	Mounting Hole	Е	T ₁	ш	VV 1	WV2	Ca	d1×d2×h	Г	u
lock	(1 block)	(2 blocks)		24	160(220) ~1480	34	62 (58.6)	71.6 (68.2)	26	26	M4x7	41	20	7	0.85	M5xP0.8	6	5	12.5	15	9.5	0.5	3.5x6x4.5	60	20
Standard Block	SXRK SXRDL	SX2RD SX2RDL		28	220 ~1960	42	73.4 (69)	83 (78.6)	32	32	M5x8	47.6	22.5	7.5	1	M6xP0.75	13	6	15.5	20	11	0.6	6x9.5x8.5	60	20
Stan	SXRKL	SX2RKL	Blank: None	33	220(280) ~1960	48	90 (85.4)	99.6 (95)	35	35	M6x9	61	26.5	8	1	M6xP0.75	13	6.8	18	23	12.5	0.8	7x11x9	60	20
쑹	(1 block) SXWD	(2 blocks) SX2WD	-MX: Provided	24	160(220) ~1480	52	62 (58.6)	71.6 (68.2)	41	26	4.5	41	20	7	0.5	M5xP0.8	6	5	12.5	15	18.5	0.5	3.5x6x4.5	60	20
Wide Block	SXWK SXWDL	SX2WK SX2WDL		28	220 ~1960	59	73.4 (69)	83 (78.6)	49	32	5.5	47.6	22.5	9	1	M6xP0.75	13	6	15.5	20	19.5	0.6	6x9.5x8.5	60	20
×	SXWKL	SX2WKL		33	220(280)~ 1960	73	90 (85.4)	99.6 (95)	60	35	7	61	26.5	10	1	M6xP0.75	13	6.8	18	23	25	0.8	7x11x9	60	20

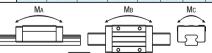
L Dimension: Dimensions in () are for 2-Block Type.

Block kg (Dynamic) Co (Static) MA, MB kN kN N·m Double-Sealed With Metal Scrapers N⋅m Standard Wide Standard Wide 8.6 14.2 69 98 0.21 0.26 0.21 0.26 1.5 12.5 21.3 155 232 0.32 0.37 0.32 0.37 2.4 393 0.48 0.63 0.49 0.64 3.4

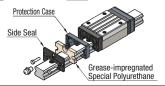
Preload and Accuracy



OIIIIa	olearance type				
ladia	Clearance (µm)	Dimensional A	Accuracy (µm)	Standard Grade	
124	-4~+2	Height H Tole	erance	±100	
128	-5~+2	Pair Variation	of Height H	20	
133	-6~+3	Width W ₂ Tol	erance	±100	
		Pair Variation	H24, 28	20	
		of Width W2	H33	30	
		Running Parallelism of I	See P. 525		
		Running Parallelism of I	Plane D against Plane B	Jee P. 323	



Double-Sealed



maintenance-free operation. Reduces maintenance cost.

Most suitable where the design does not allow lubrication For details, see **E P. 530**.

The double seal scheme with two layers of side seals enhances the sealing effect and prevents intrusion of foreign substances into the block. Can be used where dust and machining chips exist. Sliding resistance of Double-Sealed Type is higher than that of Standard Type.

Larger foreign substances adhered to the rail can be removed by attaching metal scrapers on the external side of the side seals. Can be used in areas with high temperature dusts such as

With Metal Scrapers

= For customers using industry standard products =

Frame-surrounded products are compliant with the industry standard specifications (Standard Block Type). Select the block from this spec.

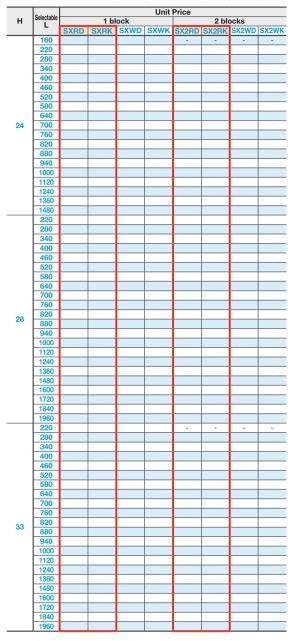


Ordering Part Number

880 (With Lubrication Units) SXRD28L 880 (L Type Greased) SXRD28G - 880 (G Type Greased)

Alternative grease types available (Except Blocks with Lubrication Units)

(TMS, TMC, RLC, LLC···etc.)



L Dimension Configurable Type (1mm Increment)

	Unit Price										
Н		1 bl	ock	ock			2 blocks				
	SXRDL	SXRKL	SXWDL	SXWKL	SX2RDL	SX2RKL	SX2WDL	SX2WKL			
24											
28											
33											

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.

l ⊠ i	Part Number	-	L
Alterations	SXRD33	-	880

Aiterations	SXHD33	- 880 - IMC	
Alterations	Code	Spec.	
TMS:Tapped Hole Machining + 2 Stopper Plates		Adds tapped holes on both rail ends to a fall-off.	avoid blove
TMC: Tapped Hole Machining only		H24 H28, 33	

TMC: Tapped Hole Machining only		H24 H28, 33
Block Stopper Plate	TMS TMC	M3xP0.5 Depth 5 Tapped Hole For Stopper Plates Details, see P. 612 .
Rail End Cut	Left End Cut	Cuts rail ends.
LLC RLC	LLC	Ordering Code LLC H L Cut N
	Right End Cut	24 28 33 10 10
Rail is cut with the product ID facing out (datum on other side).	RLC	Applicable to Selectable Type only.Overall length will be shorter by cutting.
Parallel Use of 2 Rails	wc	Pair variation of Height H between 2 rails is set within 20µm. Two rails are shipped as a pair. (*) Specify the actual rail quantity (even number) to order, not "pairs". Not applicable to High Grade Type. Not applicable to low temperature chrome plated products.
3-Block Specifications	В3	Add 2 blocks to 1-Block product to ship as 3-Block separate item. Selection Example: SXRD24-400-B3
4-Block Specifications	B4	Add 3 blocks to 1-Block product to ship as 4-Block separate item. Selection Example: SXRD24-400-B4

Additional Block Price

		B3: 1	Code		B4: 1Code						
н	Double-	-Sealed	With Meta	I Scrapers	Double	-Sealed	With Metal Scrapers				
	Standard	Wide	Standard	Wide	Standard	Wide	Standard	Wide			
24											
28											
33											

Position of Grease Fitting (Reference plane on the front side)	Select	able Shortest Rail	Length for B3/B4
block	Н	B3 (3-Block)	B4 (4-Block)
	24	340	400
blocks	28	400	460
blocks	33	400	520
blocks			

MX (Lubrication Unit) Unit Price

н	Unit	Price
	1 block	2 blocks
24		
28		
33		

Price of Guide Rails with MX (Lubrication Unit) = Linear Guide Unit Price + MX Unit Price

Linear Guide Clamps

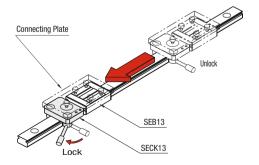
For Miniature Linear Guides

Material **■**Tightening Force and Retaining Force Main Body EN 1.4301 Equiv. SECK Lever EN 1.4301 Equiv. Retaining Force (Reference) 70-105 N **SECWK** Contacts EN CW505L Equiv. Release at 20° to the right. Clamp within 60° range to the left. Section X-X Section V-V RoHS H1 (Attachment Portion) Linear guide clamp must be mounted to a connecting plate with miniature linear guide first, then attached to the rail. (H13 is Ø3) Connecting plate is to be supplied by user. Mounting point rotates. Tighten the screw by Mounting point rotates, lighten the screw by holding the back side. SECK Type should match with H dimension of Miniature Linear Guides. SECWK Type should match with H dimension of Miniature Linear Guides Wide Type. The lever ② can be screwed off.

Part Number	er		В	С	D	_	_	М	H ₁	H ₂	l			Retaining Force	Unit Drice
Туре	Н	A	В	C	_ D	_	-	IVI	п	П2	Ł		G	(Reference)	Unit Price
SECK	13	38	34	22	12	20.5	17.5		10	5	10	64	46.5	70N	
SECK	16	41	34	22	12	22	19	M4	12	6	12	67	48	95N	
SECWK	14	50	34	22	12	26.5	23.5		11	5	11	76	52.5	75N	
SECWK	16	68	34	20.5	13.5	35.5	32.5	M5	13	6	13	94	61.5	105N	







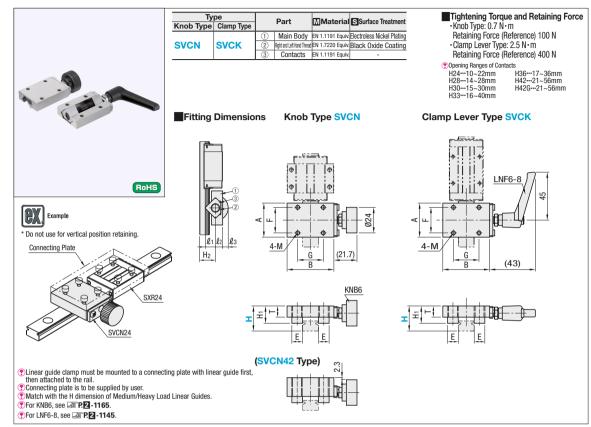
Characteristics of Linear Guide Clamp

Linear guide blocks can be locked at arbitrary positions by rotating a lever. Convenient when simple position retaining utility is needed.

*When using the Linear Guide Clamps in inclined or vertical applications, provide external means to prevent the slider from falling.

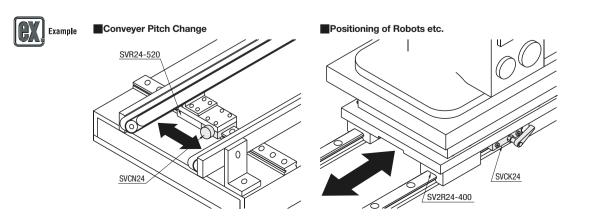
Linear Guide Clamps

For Medium/Heavy Load Linear Guides



Part Numb	oer	_	В	_	G	Е	-	H ₁	H ₂	ℓ1	l2	lз	М	Unit	Price
Type	Н	A	В	Г	G			п	П2	£1	£2	l3	(Coarse)	SVCN	SVCK
	24	32	44	24	24	10	10.5	16.3	17.2	9.5	6.8	5.2	M4		
	28	35	50	25	25	10	11.5	17.3	20.2	9.5	7.8	4.2	M5		
SVCN	30	38	54	28	28	11	11.0	18.3	22.7	11.0	7.3	4.7	M5		
SVCK	33	38	62	26	26	10	14.0	19.8	22.7	9.5	10.3	1.7	M6		
SVOR	36	42	60	30	30	11	13.0	20.3	26.7	11.0	9.3	2.7	M6		
	42	46	80	32	32	11	18.0	25.3	27.7	11.0	14.3	-	M8		

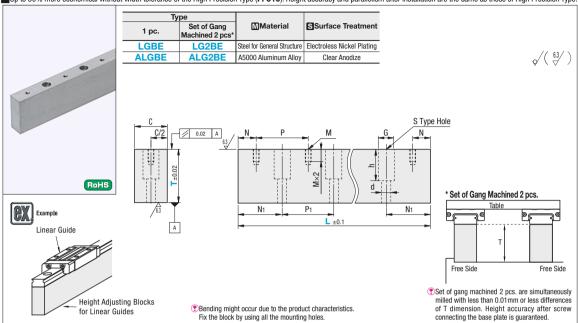




Height Adjusting Blocks for Linear Guides

Economy Type

Up to 50% more economical without width tolerance of the High Precision Type (P. 610). Height accuracy and parallelism after installation are the same as those of High Precision Type.



Part Nu	mber		Т						Tonnad	S Thro	ough +	Counterb	ored Hole
Туре	(Linear Guide H Dimension) No.	L Dimension Selection	1mm Increment	С	N	Р	N ₁	P ₁	Tapped Hole M	d	G	_	n
(1 pc.) LGBE	24	160 220 280 340 400 460 520	10~60	16					M3	5.5	9.5	6 (T≤20)	T-14 (T>20)
ALGBE (Set of Gang Machined 2 pcs.) LG2BE	28	220 280 340 400 460 520	15~60	22	20	60	50	60	M5	6.5	11	7 (T≤25)	T-18 (T>25)
ALG2BE	33	220 280 340 400 460 520	20~60	25					M6	9	14	9 (T≤30)	T-21 (T>30)

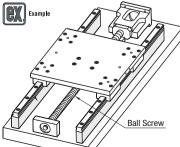
• When T=15 or less, the pilot holes M3 and M5 for tapping go through • When T=20, the pilot holes M6 for tapping go through.





Price List							INUITIDE	or Hore	25	
				Unit	Price					
			LG	BE	ALG	BE			M	S Number
Туре	No.	L	T30 or Less	T31 ≀ 60	T30 or Less	T31	No.	L	of Holes	of Holes
		160						160	3	2
		220						220	4	3
		280						280	5	4
	24	340					24	340	6	5
(1 pg.)		400						400	7	6
(1 pc.) LGBE		460						460	8	7
ALGBE		520						520	9	8
ALGEL		220						220	4	3
		280						280	5	4
(Set of Gang Machined 2 pcs.)	28	340					28	340	6	5
LG2BE		400						400	7	6
(LGBE+LGBE)		460						460	8	7
ALG2BE		520						520	9	8
(ALGBE+ALGBE)		220						220	4	3
, , , ,		280						280	5	4
	33	340					33	340	6	5
		400						400	7	6
		460						460	8	7
		E20						E20	0	0

Number of Holes

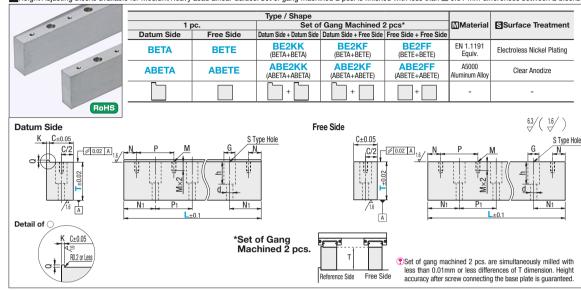


• For raising the linear guide height to mount ball screws etc.

Height Adjusting Blocks for Linear Guides

High Precision Type

Height Adjusting Blocks available for Medium/Heavy Load Linear Guides. Set of gang machined 2 pcs. is finished with less than \pm 0.01 mm differences between 2 blocks.



	Part Number			Т								T	S Thr	ough -	+ Counterb	ored Hole
	Туре	(Linear Guide H Dimension) No.	L Dimension Selection	1mm Increment	С	K	Q	N	Р	N ₁	P ₁	Tapped Hole M	d	G	ŀ	1
(1 pc.)	BETE	24	160 220 280 340 400 460 520 580 640 700 760 820 880 940	10~60	15							М3	5.5	9.5	6 (T≤20)	T-14 (T>20)
ABETA	ABETE	28	220 280 340 400 460 520 580 640 700 760 820 880 940	15~60	20	3	3	20	60	50	60	M5	6.5	11	7 (T≤25)	T-18 (T>25)
(Datum Side + Datum Side	f Gang Machined 2 pcs.) e) (Datum Side + Free Side) (Free Side + Free Side)	33	220 280 340 400 460 520 580 640 700 760 820 880 940	20~60	23	3	3	20				M6	9	14	9 (T≤30)	T-21 (T>30)
BE2KK ABE2KK		42	280 360 440 520 600 680 760 840 920	20~00	28				80	60	80	M6	11	17.5	11 (T≤35)	T-24 (T>35)

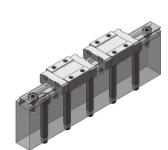
When T=15 or less, the pilot holes M3 and M5 for tapping g

PHOT HOIGS INIO	101	tapping	yo u	iiougii.
Part Number	-	L	-	Т
BETA24	-	400	-	32
DEOMEON		700		20

o throu	gh.					
	Price List					
				BE	TA	
	Type	No.	L	T30	T31	TS
				or Less	≀ 60	Le
			160			$\overline{}$
			220			
			280			
			340			
	(1 pc.)		400			
			460			
	BETA	24	520			
	ABETA	24	580			
	BETE		640			
	ABETE		700			
	ADEIL		760			
			820			
	(Set of Gang		880			
	(oot or during	1	040			

Price Calculation Example for Set of Gang Machined 2 pcs. (BETA24-700-30) + (BETA24-700-30) + (Ganged Machining Charge)



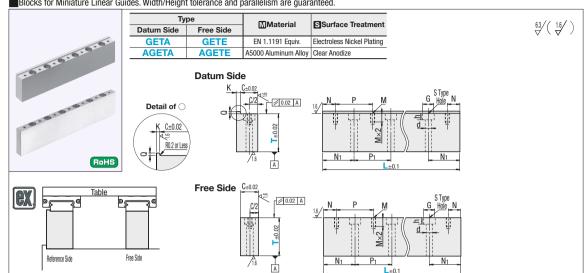


		160							160	3	2
		220					1		220	4	3
		280					1		280	5	4
		340					1		340	6	5
(1 pc.)		400							400	7	6
(1 - 7		460					i		460	8	7
BETA		520					i		520	9	8
ABETA	24	580						24	580	10	9
BETE		640					i		640	11	10
ABETE		700					i		700	12	11
ADETE		760							760	13	12
		820					1		820	14	13
(Cat of Cana		880					1		880	15	14
(Set of Gang		940					i		940	16	15
Machined 2 pcs.)		220							220	4	3
BE2KK		280					i		280	5	4
		340					i		340	6	5
(BETA+BETA		400							400	7	6
+ Ganged Machining		460					1		460	8	7
Charge)		520					1		520	9	8
	28	580						28	580	10	9
ABE2KK		640					i		640	11	10
(ABETA+ABETA		700					i		700	12	11
+ Ganged Machining		760							760	13	12
Charge)		820					i		820	14	13
		880					ĺ		880	15	14
BE2KF		940					1		940	16	15
(BETA+BETE		220							220	4	3
+ Ganged Machining		280					1		280	5	4
Charge)		340					i		340	6	5
		400							400	7	6
ABE2KF		460					ĺ		460	8	7
(ABETA+ABETE		520					ĺ		520	9	8
+ Ganged Machining	33	580						33	580	10	9
Charge)		640					1		640	11	10
		700					1		700	12	11
BE2FF		760							760	13	12
(BETE+BETE		820					ĺ		820	14	13
+ Ganged Machining		880					1		880	15	14
Charge)		940					1		940	16	15
		280							280	4	3
ABE2FF		360							360	5	4
(ABETE+ABETE		440							440	6	5
+ Ganged Machining		520							520	7	6
Charge)	42	600						42	600	8	7
J-7		680							680	9	8
		760							760	10	9
		840							840	11	10
		920							920	12	11

Height Adjusting Blocks for Miniature Linear Guides

Standard Rail Type

Blocks for Miniature Linear Guides. Width/Height tolerance and parallelism are guaranteed.



Part N	lumber		_								Tonned		s	
Type	(Slide Guide H Dimension)	L Selection	1mm Increment	С	K	Q	N	P	N ₁	P ₁	Hole M	Through +	Counterb	ored Hole
Type	No.										11010 111	d	G	h
	8	40 55 70 85 100 115 130		7	2	1	5	15	12.5	15	M2	3.5	6	3.5
GETA	10	55 75 95 115 135 155 175 195 215 235 255 275		9	3	1.5	7.5	20	17.5	20	М3	4.5	8	4.5
AGETA GETE	13	70 95 120 145 170 195 220 245 270 295 320 345 370 395	10~60	12	3	2	10	25	22.5	25	М3	4.5	8	4.5
AGETE	16	110 150 190 230 270 310 350 390 430 470		15	3	3	15	40	35	40	М3	5.5	9.5	5.5
	20	160 220 280 340 400 460		20	3	4	20	60	50	60	M5	6.5	11	6.5

Nhen T≤Mx4, the pilot holes for tapping go through



Number of Holes





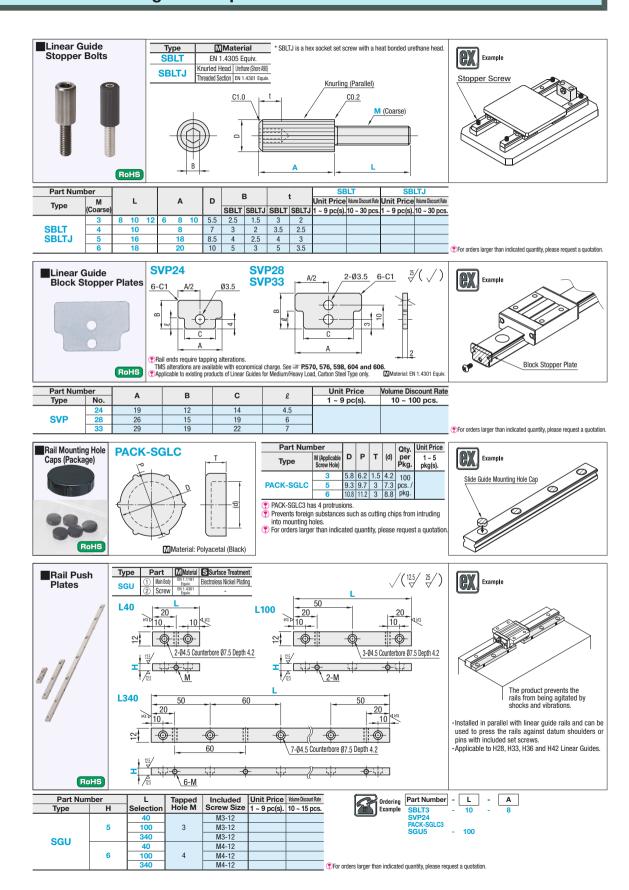
Applicable Linear Guides

P.533~P.554 Compatible with Miniature Linear Guides L Selectable Types.

•H13 is not applicable to L420 or more.

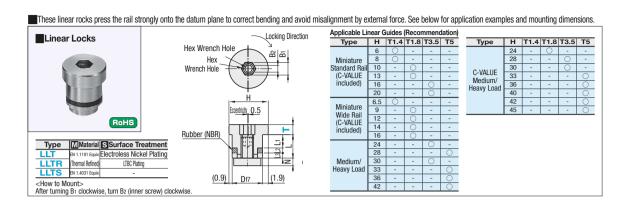
 H16 is not applicable to L510 or more. •H20 is not applicable to L520 or more.

Linear Guide Stopper Bolts / Linear Guide Block Stopper Plates Rail Mounting Hole Caps / Rail Push Plates



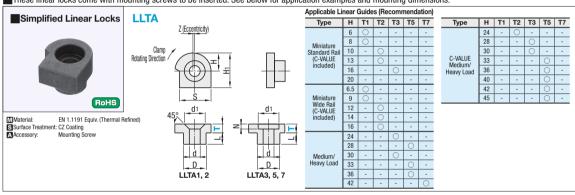
Linear Locks / Simplified Linear Locks

Linear Guide Lock Plates / Linear Guide Lock Units / Linear Guide Taper Locks



Part Numb	oer					Ī						Mountin	g Hole Di	mension	(Recommendation)	(Recommendation)	Mass	LI	T	LL	ΓR	TS
Туре	Т	Н		D _f 7	L	N	L1	L2	Lз	B ₁	B ₂	D ₁	F(min)	W	Tightening Torque N·cm	(Recommendation) Clamp Power KN	(g)	Unit Price 1 ~ 9 pc(s).	Volume Discount Rate 10 ~ 200 p.c.	Unit Price 1 ~ 9 pc(s).	loune Discount Rate 10 ~ 50 pcs.	 Volume Discount Rate 10 ~ 50 pcs.
117	1.4														90	1.8	7					
LLT	1.8	12.8	10	-0.013 -0.028	8	م د	5		1.0	۱,	م ا	10	11	6.5	120	2.5	7	1				
	3.5			-0.020		2.5		1.4	1.6)	2.5				190	3.9	8	1				
LLIS	5	14.8	12	- 0.016 - 0.034	9		6					12	12	7.5	270	5.5	14	1				

These linear locks come with mounting screws to be inserted. See below for application examples and mounting dimensions. ** For orders larger than indicated quantity, please request a quotation



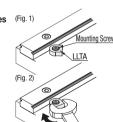
Part Numb	oer		D -0.01 -0.06	н	H ₁		7	۱ ۸	d ₁	N	Mou	nting	Hole	Dime	nsion	Mass	Mounting Screw	(Recommendation)	Unit Price	Volume Discount Rate
Type	Т		-0.06	п	п	3		u	uı	14	D ₁	W	F	M	(min)	(g)	Woulding Screw	Clamp Power KN	1 ~ 9 pc(s).	10 ~ 150 pcs.
	1	2.8		4	0	7	0.4	2.4	16		5	1	,	M2	5	0.6	Phillips Flat Head Screws M2x8	1		
	2	2.0	J	-	0	'	0.4	2.4	4.0	_	J	4	٦	IVIZ	J	1	Frillips Flat flead Screws MZX0	1.2		
LLTA	3	3.8	7	6	12	11	0.5	3.4	6.2	2	7	6	4	M3	6	3	Hex Socket Low Head Cap Screw M3x10	2.4		
	5	4.8	9	7	14	13	0.5	4.5	8	3	9	7	5	M4	6	6	Hex Socket Low Head Cap Screw M4x12	3.8		
	7	5.8	11	8	18	14	0.5	5.5	9.5	4	11	8	6	M5	8	13	Hex Socket Low Head Cap Screw M5x16	5.8		

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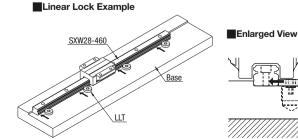


LLTA (Simplified Linear Locks) Mounting Procedures (Fig. 1)

- (1) Drill holes for mounting linear locks on the base (Refer to Mounting Hole Dimensions.).
- (2) Temporarily tighten the rail screws.
 (3) Insert the mounting screws in LLTA and temporarily tighten (Fig. 1). (4) Turn the LLTA shoulder clockwise with a wrench and press the rail onto the datum plane (Fig. 2).
- (5) Fully tighten the rail screws.
- (6) Fully tighten the LLTA mounting screws.

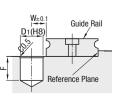


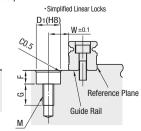




• Press the rail onto the datum plane by turning the linear locks

Mounting Hole Dimensions (Reference) ·Linear Locks

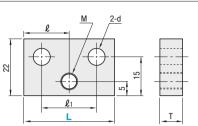


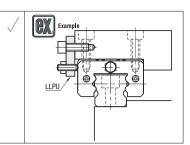


This plate secures the table and the datum plane of blocks to avoid misalignment from external force.



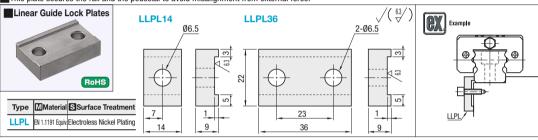
LLPU EN 1.1191 Equiv. Electroless Nickel Plating



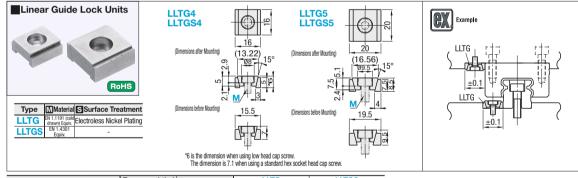


Part Numbe	er	т	0	£1	- 4	М	Unit Price	Volume Discount Rate			
Type	L	'	Ł	ĽΊ	d	IVI	1 ~ 9 pc(s).	10 ~ 50 pcs.	51~		
	23		11.5	11	5.5						
LLPU	28	6	14.0	15		_			To Be Quoted on WOS		
LLPU	33		16.5	20	6.5	5			10 DE QUOIEU ON WOS		
	43	9	21.5	30							

■This plate secures the rail and the pedestal to avoid misalignment from external force.

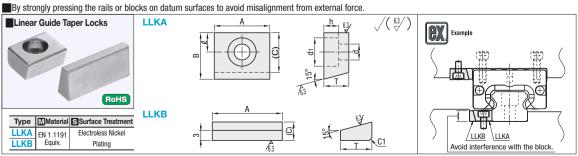


Part Numb	er	Unit Price	Volume Discount Rate				
Type	Nominal	1 ~ 9 pc(s).	10 ~ 150 pcs.	151~			
LIPI	14			To Be Quoted on			
LLPL	26			l wos			



Part Numbe	r	(Recommendation)	Rail Clamn		TG		GS	
-		Tightening Torque	Force (kN)				Volume Discount Rate	
Type	М	(N·m)	1 0100 (1114)	1 ~ 9 pc(s).	10 ~ 100 pcs.	1 ~ 9 pc(s).	10 ~ 50 pcs.	
LLTG	4	2	3.2					
LLTGS	5	8	9					For orders larger than indicated quantity, please request a quotation.

TLTG components are held together by elastic adhesive. Install as shipped.



Part Number		^	A B T (C) & d d ₁ h Unit F	Unit Price	Volume Discount Rate							
Type	No.	Α	_ B	'	(C)	Ł	u	d1	n	1 ~ 9 pc(s).	10 ~ 100 pcs.	101~
LLKA	5	20	16	9	13.6	7	5.5	9.5	5.5			To Be Quoted
LLKA	6	22	18	11	15.1	7.5	6.5	11	6.5			
LLKB	5	20	-	9	5.41	-	-	-	-			on WOS
LLND	6	22		11	5.05				_			1

