

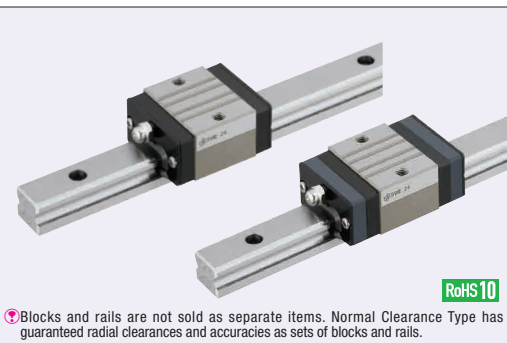
# Linear Guides for Medium Load


## Normal Clearance



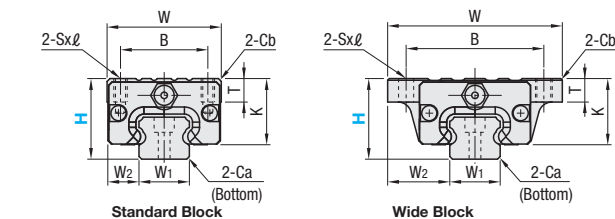
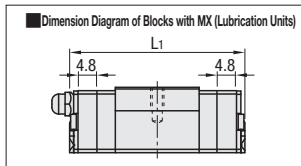
Similar Products Comparison Points | Select this product for high precision positioning, heavy load, and high frequency drive application.

Lubrication Units **MX**  
Provides long term maintenance-free operation.



	Type				MX (Lubrication Units)	L Dimension	 Material Hardness
	1 block		2 blocks				
	Standard Grade	High Grade	Standard Grade	High Grade			
Block Standard	<b>SVR</b>	<b>SVRJ</b>	<b>SV2R</b>	<b>SV2RJ</b>	Blank: None -MX: Provided	Selectable	Carbon Steel 58HRC~
	<b>SVRL</b>	<b>SVRLJ</b>	<b>SV2RL</b>	<b>SV2RLJ</b>		Configurable	
Wide Block	SVW	-	SV2W	-		Selectable	
	SVWL	-	SV2WL	-		Configurable	
	SVWT	-	SV2WT	-		Selectable	
	SVWTL	-	SV2WTL	-		Configurable	

Heat Resistant Temperature: -20 ~ 80°C



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

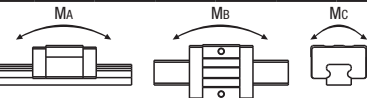
- Precautions for Use
- Blocks are equipped with retainers to prevent balls from falling off. For how to handle the blocks, see **P525**.
  - Radial clearances and accuracies are not guaranteed if the blocks and rails are interchanged from the original set combinations.
  - Straight grooves are provided 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 (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 **P527**.
  - For operating life calculations, use our free calculation software from [http://download.misumi.jp/mol/fa\\_soft.html](http://download.misumi.jp/mol/fa_soft.html).

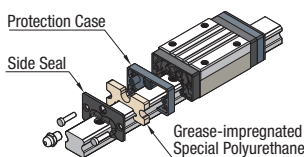
Part Number				L	Block Dimension												Guide Rail Dimension								
Type	MX	H	W		L <sub>1</sub>			B	Sxℓ	L <sub>2</sub>	K	T	Cb	Grease Fitting			H <sub>1</sub>	W <sub>1</sub>	W <sub>2</sub>	Ca	Counterbored Hole d1xd2xh	F	G		
					Standard	MX								Mounting Hole	E	T <sub>1</sub>									
Standard Block	(1 block)	(2 blocks)	Blank: None -MX: Provided	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	
	SVR			SV2R	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
	SVRL			SV2RL	33	160~1960 (220)	48	59	68.6	35	M6x9	37	26.5	8	1	M6xP0.75	13	6.8	18	23	12.5	0.8	7x11x9	60	20
	SVRJ			SV2RJ	SVRLJ	SV2RLJ																			
Wide Block	(1 block)	(2 blocks)	Blank: None -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	
	SVW			SV2W	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
	SVWL			SV2WL	33	160~1960 (220)	73	59	68.6	60	7 (M8)	37	26.5	10	1	M6xP0.75	13	6.8	18	23	25	0.8	7x11x9	60	20
	SVWT			SV2WT	SVWTL	SV2WTL																			

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

H	Basic Load Rating/Allowable Static Moment		Mass			
	C (Dynamic) kN	Co (Static) kN	Ma, Mb N · m	Mc N · m	Block kg Standard Wide	Guide Rail kg/m
24	5.0	8.23	33	57	0.15	0.20
28	7.2	12.1	58	135	0.20	0.25
33	11.7	19.6	109	225	0.30	0.40



### Lubrication Units **MX**



- 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 **P530**.

= 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.



Part Number	-	L	
SVR28	-	880	(With Lubrication Units)
SVR-MX	-	880	(LTBC Plating)
RVR	-	880	(L Type Greased)
SVR28L	-	880	(G Type Greased)
SVR28G	-	880	

LTBC Plating and various Grease types available as alternative. (Except products with Lubrication Units) **P532**



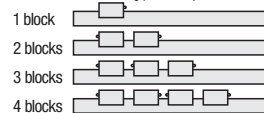
Part Number	-	L	-	(TMS, TMC...etc.)
SVR28	-	880	-	TMC

Alterations	Code	Spec.
TMS: Tapped Hole Machining + 2 Stopper Plates TMC: Tapped Hole Machining only 	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 <b>P.612</b> .
LLC: Rail End Cut RLC: Rail End Cut  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 Applicable to Selectable Type only. Overall length will be shorter by cutting. Not applicable to H dimension 24 of L dimension 100.
Parallel Use of 2 Rails	WC	For standard grade, 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	B3	Add 2 blocks to 1-Block product to ship as 3-Block separate item. 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 separate item. Selection Example: SVR24-400-B4 Not applicable to High Grade Type.

### Additional Block Price

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

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



### Selectable Shortest Rail Length for B3 / B4

H	B3 (3-Block)	B4 (4-Block)
24	280	340
28	340	400
33	340	400

### Options for Linear Guide

Linear Guide Clamps	Rail Height Adjusting Blocks
 P608	 P609, 610
Block Derailment Prevention Parts / Dust Resistant Parts	Block / Rail Fixing Parts
Stopper Bolts  P612	Linear Guide Rail Push Plates  P612
Block Stopper Plates  P612	Linear Locks  P613
Rail Mounting Hole Caps  P612	Linear Guide Lock Units  P614

### L Dimension Configurable Type (1mm Increment)

H	Unit Price					
	1 block			2 blocks		
24	SVRL	SVWL	SVWTL	SV2RL	SV2WL	SV2WTL
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

H	Unit Price	
	1 block	2 blocks
24		
28		
33		

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