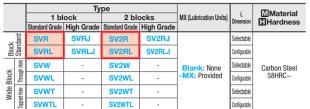
# **Linear Guides for Medium Load**

## **Normal Clearance**

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

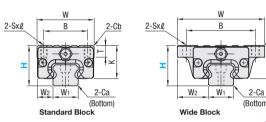
Lubrication Units MX Provides long term maintenance-free operation

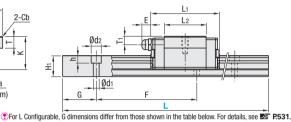




Heat Resistant Temperature: -20  $\sim 80^{\circ}$ C

Dimension Diagram of Blocks with MX (Lubrication Units)





- Precautions for Use
- Selocks are equipped with retainers to prevent balls from falling off. For how to handle the blocks, see F525.
- Radial clearances and accuracies are not guaranteed if the blocks and rails are interchanged from the original set combinations.
- Nabial oceanices and occuraces are not guiarneed if the books and rais are internanged from the original set combinations.
   Statight growes are provided on datum planes. Be sure to match the datum lines when using.
   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, see F.527
- For operating life calculations, see 22 F.327

	Part Number									Blo	ck Dir	nensi	on						Gu	ide R	ail D	imensio	n	
	Type		мх	н	L	w	L1 g		В	Sxl L2	к	v T	Cb	Grease Fitting		ng	H <sub>1</sub>	W <sub>1</sub> V	W <sub>2</sub>	Ca	Counterbored Hole	F	G	
	l iy	pe	IVIX	п		**	Standard	MX		SAE	LZ	, r	'	CD	Mounting Hole	Е	T <sub>1</sub>	ш	441	VV 2	Ca	d1xd2xh		G
Block	(1 block)	(2 blocks)	2R 2RL	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 B	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
Star	SVRLJ	k) (2 blocks)  Blank: None -MX: Provided		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
Wide Block	(1 block) SVW		-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
	SVWL	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	0.8	7x11x9	60	20

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

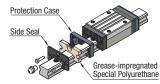
						kgf=N	x0.101972	
	Basic Lo	ad Rating	Allowable St	atic Moment	Mass			
н	C (Dynamic)	Co (Static)	Ма, Мв Мс		Bloc	Guide Rail		
	kN	kN	N·m	N⋅m	Standard Wide		kg/m	
24	5.0	8.23	33	57	0.15	0.20	1.5	
28	7.2	12.1	58	135	0.20	0.25	2.4	
33	11.7	19.6	109	225	0.30	0.40	3.4	



# Preload and Accuracy Standar

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

_						
n)	Dimensional A	Accuracy (µm)	Standard Grade	High Gra		
	Height H To	lerance	±100	±40		
	Pair Variation	of Height H	20	15		
	Width W <sub>2</sub> T	olerance	±100	±20		
_	Pair Variation	H24, 28	20	15		
	of Width W2	H33	30	13		
	Running Parallelism of	Plane C against Plane A	See <b>P.525</b>			
	Running Parallelism of A	Plane D against Plane B	366 <b>F.323</b>			



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 =

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

\*High Grade Types are not available

Low Temperature Black Chrome Plating products are available in an L dimension of up to 1000.

	Selectable	Unit Price									
н	Selectable		1 block		2 blocks						
		SVR	SVW	SVWT	SV2R	SV2W	SV2WT				
	100				-	-	-				
	160										
	220										
	280										
	340										
	400										
	460										
	520										
	580										
24	640 700										
	700										
	760										
	820										
	880										
	940 1000										
	*1120										
	*1040										
	*1240 *1360 *1480										
	*1480										
	160				-	-	-				
	220										
	280										
	340										
	400										
	460										
	520										
	580										
	640										
	700										
	760		i								
28	820										
	880										
	940										
	1000										
	1120										
	1240										
	*1360										
	*1480										
	*1600										
	*1720										
	*1840 *1960										
	1900										
	160 220				-	-	-				
	280										
	340										
	400										
	460										
	520										
	580										
	640										
	700										
	760										
33	820										
-	880										
	940										
	940 1000										
	1120										
	1240										
	*1360										
	*1480										
	*1600										
	*1720										
	*1840										
	*1960										

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

		Unit Price										
H	н			2 blocks								
	SVRL	SVWL	SVWTL	SV2RL	SV2WL	SV2WTL						
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



Part Number

880 (With Lubrication Units) **SVR-MX** 

RVR 880 (Low Temperature Black Chrome Plating) 880 (L Type Greased) oRVR28

880 (G Type Greased)

Low Temperature Black Chrome Plating and various Grease types available as alternative. (Except products with Lubrication Units) P.532



Part Number - L - (TMS, TMC···etc.)

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	U 1124 120,33					
Block Stopper Plate		M3xP0.5 Depth 5 Tapped Hole For Stopper Plates Details, see <b>P. 612</b> .					
Rail End Cut LLC RLC	Left End Cut	Cuts rail ends.   Didering Code  LLC					
Rail is cut with the product ID facing out (datum on other side).	Right End Cut	© Overall length will be shorter by cutting. 28  10  10					
Parallel Use of 2 Rails	wc	For standard grade, pair variation of Height H between 2 rai is within 20µm.  The varials are shipped as a pair.  Specify the actual rail quantity (even number) to order, no pairs:  Whot 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 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.					

### Additional Block Price

н		B3:1	Code		B4:1Code				
п	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) 

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

### Options for Linear Guide

4 blocks







Linear Guide Lock Units P612