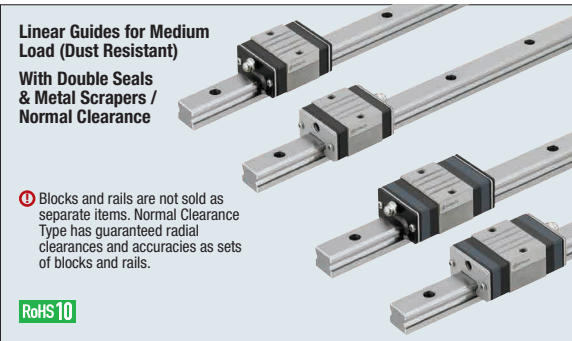


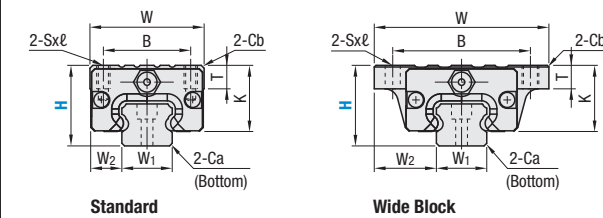
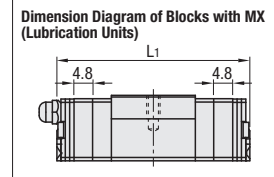
Linear Guides for Medium Load (Dust Resistant)

With Double Seals & Metal Scrapers / Normal Clearance



	Type		MX (Lubrication Units)	L Dimension	Number of Blocks	Material Hardness
	Double-Sealed	With Metal Scrapers				
Standard	SVRD	SVRK	Blank: None -MX: Provided	Selectable	1	Carbon Steel 58 HRC min.
	SV2RD	SV2RK			2	
	SVRDL	SVRKL			1	
	SV2RDL	SV2RKL			2	
Wide Block	SVWD	SVWK	Blank: None -MX: Provided	Selectable	1	Carbon Steel 58 HRC min.
	SV2WD	SV2WK			2	
	SVWDL	SVWKL			1	
	SV2WDL	SV2WKL			2	

Heat Resistant Temperature: -20~80°C



ⓘ For L Dimension Configurable Type, G dimensions differ from those shown in the table below. For details, see P.608.

Precautions for Use

- ⓘ Blocks are equipped with retainers (wire) to prevent balls from derailing. For blocks, see P.602.
- ⓘ 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.
- ⓘ Running parallelism is the value measured after the rail is mounted (it is not the value measured before the rails are fastened with screws).

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 P.604.

	Part Number		MX	H	L	Block Dimensions										Guide Rail Dimensions									
	Type	MX				W	L ₁		B	S x ℓ	L ₂	K	T	Cb	Grease Fittings			H ₁	W ₁	W ₂	Ca	Counterbored Holes		F	G
							Mounting Holes	E							T ₁	d ₁ x d ₂ x h									
Standard	1 Block	2 Blocks	Blank: None	24	160~1480	34	46 (42.6)	55.6 (52.2)	26	M4 x 7	25	20	7	0.85	M5 x P0.8	6	5	12.5	15	9.5	0.5	3.5 x 6 x 4.5	60	20	
	SVRD	SV2RD		28	220~1960	42	53.4 (49)	63 (58.6)	32	M5 x 8	27.6	22.5	7.5	1	M6 x P0.75	13	6	15.5	20	11	0.6	6 x 9.5 x 8.5	60	20	
	SVRK	SV2RK		33	1960	48	66 (61.4)	75.6 (71)	35	M6 x 9	37	26.5	8	1	M6 x P0.75	13	6.8	18	23	12.5	0.8	7 x 11 x 9	60	20	
Wide Block	1 Block	2 Blocks	-MX: Provided	24	160~1480	52	46 (42.6)	55.6 (52.2)	41	4.5	25	20	7	0.5	M5 x P0.8	6	5	12.5	15	18.5	0.5	3.5 x 6 x 4.5	60	20	
	SVWD	SV2WD		28	220~1960	59	53.4 (49)	63 (58.6)	49	5.5	27.6	22.5	9	1	M6 x P0.75	13	6	15.5	20	19.5	0.6	6 x 9.5 x 8.5	60	20	
	SVWK	SV2WK		33	1960	73	66 (61.4)	75.6 (71)	60	7	37	26.5	10	1	M6 x P0.75	13	6.8	18	23	25	0.8	7 x 11 x 9	60	20	

ⓘ Dimensions in () are for Metal Scraper Type.

Part Number Example

Part Number	-	L
SVRD28	-	880
SVRD-MX28	-	880
SVRD28L	-	880
SVRD28G	-	880

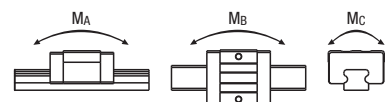
(With Lubrication Units)
(L Type Greased)
(G Type Greased)

Alternative grease types available.

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

kgf=Nx0.101972

H	Basic Load Rating		Allowable Static Moment		Mass				
	C (Dynamic) kN	Co (Static) kN	Ma, Mb N·m	Mc N·m	Block kg				
					Double-Sealed		With Metal Scrapers		
					Standard	Wide	Standard	Wide	
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



Linear Guides for Medium Load (Dust Resistant)

With Double Seals & Metal Scrapers / Normal Clearance, *continued*

Part Number Alterations Part Number - L - (TMS, TMC, RLC, LLC, etc.)
SVRD28 - 880 - TMC

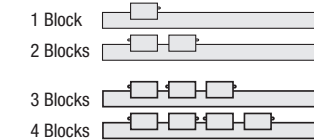
Alterations	Code	Specifications								
TMS: Tapped Hole Machining + 2 Stopper Plates	TMS TMC	Adds tapped holes on both rail ends to avoid block fall-off.								
TMC: Tapped Hole Machining Only		<p>H24, H28, H33</p> <p>M3 x P0.5 Depth 5 Tapped Hole Stopper Plates Details P.685.</p>								
Rail Ends Cut	Left End Cut LLC Right End Cut RLC	Cuts rail ends. Ordering Code: LLC								
Parallel Use of 2 Rails	WC	<table border="1"> <thead> <tr> <th>H</th> <th>L Cut</th> <th>N</th> </tr> </thead> <tbody> <tr> <td>24</td> <td rowspan="3">10</td> <td rowspan="3">10</td> </tr> <tr> <td>28</td> </tr> <tr> <td>33</td> </tr> </tbody> </table> <p>ⓘ Applicable to Selectable Type only. ⓘ Overall length will be shorter by cutting.</p>	H	L Cut	N	24	10	10	28	33
		H	L Cut	N						
24	10	10								
28										
33										
3-Block Specifications	B3	Pair variation of Height H between 2 rails is set within 20µm. Two rails are shipped as a pair. ⓘ Must be ordered in multiples of 2. ⓘ Not applicable to High Grade Type. ⓘ Not applicable to low temperature chrome plated products.								
4-Block Specifications	B4	Add 2 Blocks to 1-block product to ship as 3-block separate item. Selection Example: SVRD24-400-B3 Add 3 Blocks to 1-block product to ship as 4-block separate item. Selection Example: SVRD24-400-B4								

Selectable Shortest Rail Length

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

Position of Grease Fitting

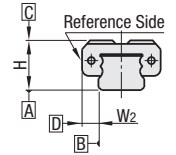
(Reference plane on the front side)



Preload & Accuracy Standards

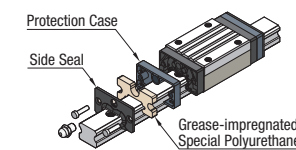
Normal Clearance Type

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



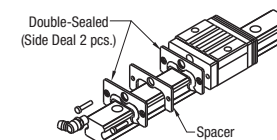
Dimension Precision (µm)		Standard Grade
Height H Tolerance		±100
Pair Variation of Height H		20
Width W ₂ Tolerance		±100
Pair Variation of Width W ₂		20
		H24, 28
		H33
Running Parallelism of Plane C against Plane A		Refer to P.602
Running Parallelism of Plane D against Plane B		

Lubrication Units MX



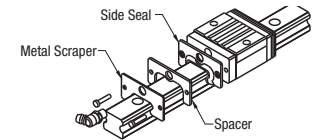
- Blocks with Lubrication Units MX provide long term maintenance-free operation. Reduces maintenance cost. Most suitable where the design does not allow access for additional lubrication. For details, refer to P.599.

Double-Sealed



- 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.

With Metal Scrapers



- 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 weld spatter.