# **Linear Guides for Medium Load**

With Dowel Hole / Normal Clearance



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

## Lubrication Units MX New Provides long term maintenance-free operation.

## **Precautions for Use**

① Blocks are equipped with retainers to prevent balls from falling out. For proper block handling, **P.602**. O Radial clearances and accuracies are not guaranteed if the blocks and rails are interchanged from the original set combinations.

① Straight grooves are provided on datum planes. Be sure to match the datum lines when using.

O Rails cannot be connected end to end. O The accuracy of Linear Guides is guaranteed after mounting the rail (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 P.604, or by using our free software at, http://www.misi umiusa.com/lg-bs\_softw

		Part Number						Block Dimensions											Guide Rail Dimensions																																	
		Tu	Tuno		u	L	w	L <sub>1</sub>		D			v	-	Ch	Grease F		ittings		Dowel Hole Dimensions				<b>W</b> 1		Co	Counterbored Holes	_	c																							
		Iy	he	IVIA	Н	п			Standard	мх	Б	3.0	L2	r.		00	Mounting Holes E T <sub>1</sub>		T <sub>1</sub>	N	Øa	F	Р	l1	n <sub>1</sub>		WV2	Ga	d <sub>1</sub> x d <sub>2</sub> x h	F	r u																					
1		1 Block SVRN SVRNL	2 Blocks SV2RN SV2RNL	Blank: 3	24	100–1480 (160)	34	41	50.6	26	M4 x 7	25	20	7	0.85	M5 x P0.8	6	5	17	3	—	_	4	12.5	15	9.5	0.5	3.5 x 6 x 4.5	60	20																						
	Medium Load				28	160–1960 (220)	42	47	56.6	32	M5 x 8	27.6	22.5	7.5	1	M6 x P0.75	13	6	21	4	_	_	5	15.5	20	11	0.6	6 x 9.5 x 8.5	60	20																						
					33		48	59	68.6	35	M6 x 9	37	26.5	8	1	M6 x P0.75	13	6.8	24	4	_	_	5	18	23	12.5	0.8	7 x 11 x 9	60	20																						
		1 Block SXRN SXRNL	2 Blocks SX2RN SX2RNL					0 Plasta	0 Plasta	0 Blasha								0 Dis size	0 Dia aka	0 Dia sha						-MX: With MX	24	100–1480 (220)	34	57	66.6	26	M4 x 7	41	20	7	0.85	M5 x P0.8	6	5	17	3	4	24	4	12.5	15	9.5	0.5	3.5 x 6 x 4.5	60	20
	Heavy Load				28	160–700 (220)	42	67	76.6	32	M5 x 7.5	47.6	22.5	7.5	1	M6 x P0.75	13	6	21	4	5	28	5	15.5	20	11	0.6	6 x 9.5 x 8.5	60	20																						
			JANINE 3		UNLINE	JAZANL	OVENUE	OVENUE		33	160-700 (280)	48	83	92.6	35	M6 x 9	61	26.5	8	1	M6 x P0.75	13	6.8	24	4	5	35	5	18	23	12.5	0.8	7 x 11 x 9	60	20																	

U L Dimension: Dimensions in ( ) are for the minimum rail length of the 2-Block Type.



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

# Linear Guides for Medium Load

# With Dowel Hole / Normal Clearance, continued

Part Number Part Alterations	rt Number - SVRN28 -	L - (TMS, TMC, RLC, LLC, B3, B4) 880 - TMC	Preload &	& Accuracy S	C Referenc	C Reference Side			
Alterations	Code	Specifications		Radial Clearance (µn	î `\ <del></del> †	<b>⊥</b> \ <del>\</del> <del>}</del>			
TMS: Tapped Hole Machining + 2 Stopper Plates		Adds tapped holes on both rail ends to avoid block fall-off.	H24	}	-4-+2				
TMC: Tapped Hole Machining Only		H24 H28, 33	H33	}	-6-+3		<u> </u>		
	TMS			Dimension Accu	Stand	Standard Grade			
	1110		Height H Tole	erance		±100			
Block		M3 x P0 5 Denth 5 Tanned Hole	Pair Variation	n of Height H		20			
Stopper Plate		For Stopper Plates Details <b>P.685</b> .	Width W <sub>2</sub> Tol	erance		±100			
		O Applicable to Carbon Steel Type only.	Dair Variation	of Width W	H24, 28		20		
Rail Ends Cut	Left End Cut	Rail ends cut.	Fall Vallation		H33		30		
IIC BIC	LLC	Ordering Code: LLC	Running Para	allelism of Plane C agai	R	Refer to			
Rail is cut with the product ID facing out (datum on other side).	Right End Cut RLC	H L Cut N   24 10 10   33 10 10   O Applicable to Selectable Type only. Cutting will shorten overall length.   S Not applicable to H dimension 24 and L dimension 100.	Running Para	allelism of Plane D agai	nst Plane B ail Length for	B3/B4	P.602		
		Add 2 Blocks to 1-block product to ship as		Mediu	m Load	Heavy	Load		
3-Block Specifications	B3	3-block separate item. Selection Example: SXRN24-400-B3	H	B3 (3-Block)	B4 (4-Block)	B3 (3-Block)	B4 (4-Block)		
		Add 2 Blocks to 1-block product to ship on	24	280	340	340	400		
4-Block Specifications	<b>B4</b>	4-block separate item. Selection Example:	28	340	400	400	460		
		SXKN24-400-B4	33	340	400	400	520		

# (Reference pla

1 Block

2 Blocks

3 Blocks

4 Blocks

		Basic Lo	ad Rating	Allowable St	tatic Moment	Mass					
	н	C (Dynamic)	Co (Static)	Ма, Мв	Mc	Bloc	Guide Rails				
		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			
	33	20.2	34.5	275	393	0.45	0.60	3.4			





Protection Side Se



**Misumi** 

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# Position of Grease Fitting

ane on the front side)
• <b>-</b> - <b>C</b>

## kgf=Nx0.101972

# Lubrication Units



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 see P.599

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