

Linear Guides for Medium/Heavy Load - Stainless Steel

Normal Clearance

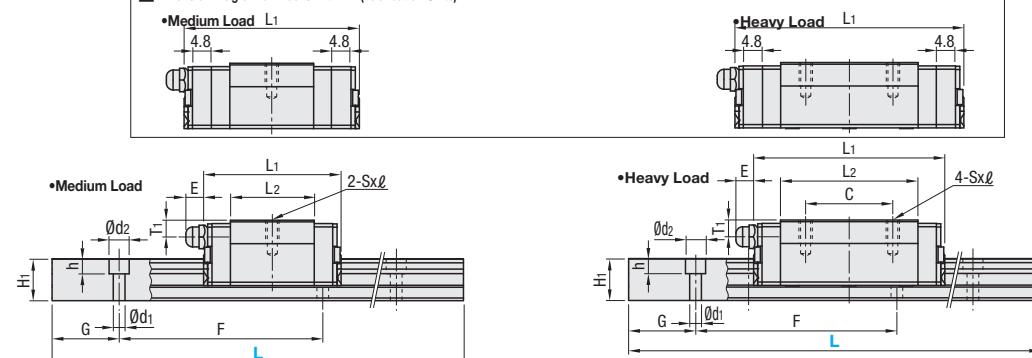
■ Features: Linear Guides for Medium and Heavy Load excellent in corrosion resistance.

Industry Standard



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

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 [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.

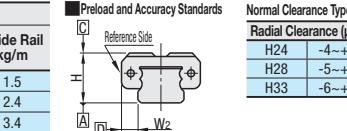
	Part Number		MX	H	L	Block Dimension						Guide Rail Dimension														
	Type					W	L1	B	C	SxL	L2	K	T	Cb	Grease Fitting	Mounting Hole	E	T1	H1	W1	W2	Ca	Countered Hole	d1xd2xh	F	G
Medium Load	(1 block)	(2 blocks)	SSVR	SSV2R	24	100-700 (160)	34 (52)	41	50.6	26 (41)	-	M4x7 (4.5)	25	20	7 (7)	0.85	M5xP0.8	6	5	12.5	15	9.5 (18.5)	0.5	3.5x6x4.5	60	20
						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
						160-700 (73)	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
	(1 block)	(2 blocks)	SSVRL	SSV2RL	28	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
						160-700 (280)	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
						160-700 (73)	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
Heavy Load	(1 block)	(2 blocks)	SSXR	SSX2R	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
						160-700 (280)	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
						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
	(1 block)	(2 blocks)	SSVRL	SSX2RL	28	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
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■ L Dimension: Dimensions in () are for 2-Block Type.

■ SxL Dimensions: Dimensions in () are for Wide Block Type.

kgf=Nx0.101972

Block	H	Basic Load Rating		Allowable Static Moment		Mass			
		C (Dynamic) kg	Co (Static) kg	Ma, Mb N · m	Mc N · m	Block kg	Guide Rail kg/m		
Medium Load	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	
Heavy Load	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	



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

Dimensional Accuracy (μm)	
Height H Tolerance	±100
Width W2 Tolerance	±100
Width W1 Tolerance	H24, 28 H33, 30

Running Parallelism of Plane C against Plane A
See P525

Running Parallelism of Plane D against Plane B

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.

Lubrication Units MX Provides long term maintenance-free operation.

Type	Medium Load	Heavy Load	MX (Lubrication Units)	L Dimension	Number of Blocks	Material Hardness
Standard Block	SSVR	SSXR	None	Selectable	1	
Standard Block	SSV2R	SSX2R	None	Selectable	2	
Wide Block	SSVRL	SSXRL	None	Configurable	1	
Wide Block	SSV2RL	SSX2RL	None	Configurable	2	
Wide Block	SSVW	SSXW	None	Selectable	1	
Wide Block	SSV2W	SSX2W	None	Selectable	2	
Wide Block	SSVWL	SSXWL	None	Selectable	1	
Wide Block	SSV2WL	SSX2WL	None	Selectable	2	

Heat Resistant Temperature: -20 ~ 80°C

Medium and Heavy Load

W B 2-Cb

W2 W1 2-Ca

Standard Block (Bottom)

Wide Block (Bottom)



Ordering Example

Part Number - L

SSXRL28 - 575

(With Lubrication Units)

RSXRL28 - 575

(LBC Plating)

SSXRL28L - 575

(G Type Greased)

SSXRL28G - 575

LBC Plating and various Grease types available as alternative (Except Blocks with Lubrication Units) P532

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

■ For 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.

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

1 block

2 blocks

3 blocks

4 blocks

5 blocks

6 blocks

7 blocks