Linear Guides for Medium/Heavy Load - Stainless Steel

Normal Clearance

= 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.

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

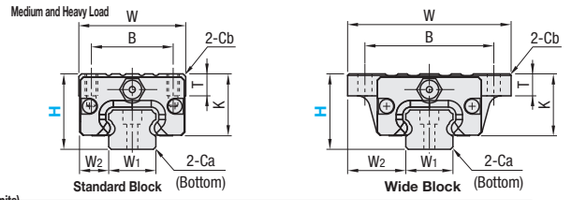
Lubrication Units MX
Provides long term maintenance-free operation.

Industry Standard

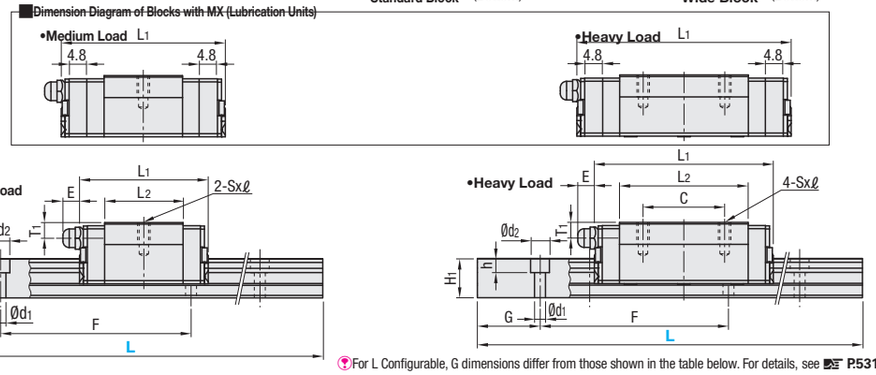
Blocks and rails are not sold as separate items. Normal Clearance Type has guaranteed radial clearances and accuracies as sets of blocks and rails.

	Type: Medium Load	Type: Heavy Load	MX (Lubrication Units)	L Dimension	Number of Blocks	M Material H Hardness
Standard Block	SSVR	SSXR	Blank: None -MX: Provided	Selectable	1	Stainless Steel 56HRC~
	SSV2R	SSX2R			2	
	SSVRL	SSXRL		Configurable	1	
	SSV2RL	SSX2RL			2	
Wide Block	SSVW	SSXW		Selectable	1	
	SSV2W	SSX2W			2	
	SSVWL	SSXWL		Configurable	1	
	SSV2WL	SSX2WL			2	

Heat Resistant Temperature: -20 ~ 80°C



Dimension Diagram of Blocks with MX (Lubrication Units)



For L Configurable, G dimensions differ from those shown in the table below. For details, see P.531.

Precautions for Use
- Blocks are equipped with retainers to prevent balls from falling off. For how to handle the blocks, see P.525.
- 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.

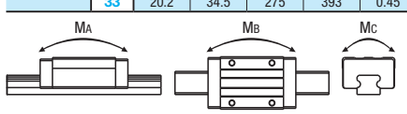
Others
- Filled with Lithium soap based grease (Alvania Grease S2 by Showa Shell Sekiyu K.K).
- Grease Fittings: Straight Type for H24 and Angled Type for H28 and H33.
- Grease Fitting is screw-in type, and thus, can be repositioned.
- For Operating Life Calculation, see P.527
- For operating life calculations, use our free calculation software from http://download.misumi.jp/mol/fa_soft.html.

	Part Number: Type	MX	H	L	Block Dimension: W	L1 Standard	L1 MX	B	C	Sxℓ	L2	K	T	Cb	Grease Fitting: Mounting Hole	E	T1	Guide Rail Dimension: H1	W1	W2	Ca	Counterbored Hole d1xd2xh	F	G
Medium Load	(1 block) SSVR (2 blocks) SSV2R	Blank: None -MX: Provided	24	100~700 (160)	34 (52)	41	50.6	26 (41)	-	M4x7 (4.5)	25	20	7 (7)	0.85 (0.5)	M5xP0.8	6	5	12.5	15	9.5 (18.5)	0.5	3.5x6x4.5	60	20
	SSVRL SSV2RL		28	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
	SSVW SSV2W		33	160~700 (220)	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
Heavy Load	(1 block) SSXR (2 blocks) SSX2R		24	100~700 (220)	34 (52)	57	66.6	26 (41)	26	M4x7 (4.5)	41	20	7 (7)	0.85 (0.5)	M5xP0.8	6	5	12.5	15	9.5 (18.5)	0.5	3.5x6x4.5	60	20
	SSXRL SSX2RL		28	160~700 (220)	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
	SSXW SSX2W		33	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

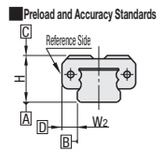
L Dimension: Dimensions in ( ) are for 2-Block Type.
Sxℓ Dimensions: Dimensions in ( ) are for Wide Block Type.

kgf=Nx0.101972

Block	H	Basic Load Rating: C (Dynamic) kN	Basic Load Rating: Co (Static) kN	Allowable Static Moment: MA, MB N·m	Allowable Static Moment: Mc N·m	Mass: Block kg Standard	Mass: Block kg Wide	Mass: 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



Preload and Accuracy Standards

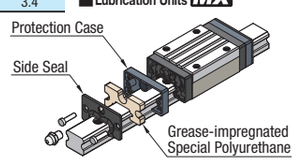


Normal Clearance Type

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

Dimensional Accuracy (μm)		Standard Grade
Height H Tolerance		±100
Pair Variation of Height H		20
Width W2 Tolerance		±100
Pair Variation of Width W2	H24, 28	20
	H33	30
Running Parallelism of Plane C against Plane A		See P.525
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 P.530.

Ordering Example

Part Number	-	L
SSXRL28	-	575
SSXRL-MX28	-	575 (With Lubrication Units)
RSXRL28	-	575 (Low Temperature Black Chrome Plating)
SSXRL28L	-	575 (L Type Greased)
SSXRL28G	-	575 (G Type Greased)

Low Temperature Black Chrome Plating and various Grease types available as alternative (Except Blocks with Lubrication Units) P532

H	Selectable L	Unit Price: Medium Load 1 block SSVR	SSVW	Medium Load 2 blocks SSV2R	SSV2W	Heavy Load 1 block SSXR	SSXW	Heavy Load 2 blocks SSX2R	SSX2W
24	100			-	-			-	-
	160							-	-
	220								
	280								
	340								
	400								
	460								
	520								
	580								
	640								
	700								
28	160			-	-			-	-
	220								
	280								
	340								
	400								
	460								
	520								
	580								
	640								
	700								
33	160			-	-			-	-
	220							-	-
	280								
	340								
	400								
	460								
	520								
	580								
	640								
	700								

L Dimension Configurable Type (1mm Increment)

H	Unit Price: Medium Load 1 block SSVRL	SSVWL	Medium Load 2 blocks SSV2RL	SSV2WL	Heavy Load 1 block SSXRL	SSXWL	Heavy Load 2 blocks SSX2RL	SSX2WL
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

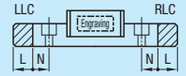
H	Unit Price: 1 block	2 blocks
24		
28		
33		

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

Alterations

Part Number - L - (RLC, LLC···etc.)
SSXR33 - 520 - RLC

Alterations	Code	Spec.
Rail End Cut	Left End Cut LLC	Cuts rail ends. Ordering Code LLC
	Right End Cut RLC	Rail is cut with the product ID facing out (datum on other side).
Parallel Use of 2 Rails	WC	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 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: SSVR24-400-B3
4-Block Specifications	B4	Add 3 blocks to 1-Block product to ship as 4-Block separate item. Selection Example: SSVR24-400-B4



H	Ordering Code: L Cut	N
24	10	10
28		
33		

Applicable to Selectable Type only.
Overall length will be shorter by cutting.
Not applicable to Heavy Load Type with H dimension 24 of L dimension 100.

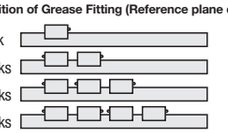
Medium Load

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

Heavy Load

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

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



Selectable Shortest Rail Length for B3/B4

H	Medium Load B3 (3-Block)	Medium Load B4 (4-Block)	Heavy Load B3 (3-Block)	Heavy Load B4 (4-Block)
24	280	340	340	400
28	340	400	400	460
33	340	400	400	520