

# Linear Guides for Medium/Heavy Load - Stainless Steel - Normal Clearance

= For customers using industry standard products =  
 frame-surrounded products (Standard Block Type) are compliant with the industry standard specifications. Select the block from this spec.

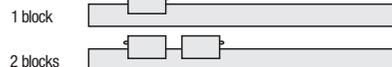
**Lubrication Units MX**  
 Provides long term maintenance-free operation.

## Industry Standard

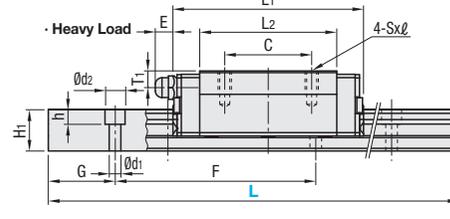
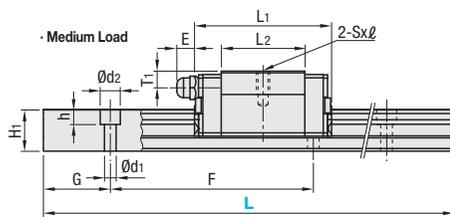


Blocks and rails are not sold as separate items. Normal Clearance Type has guaranteed radial clearances and accuracies as sets of blocks and rails.

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



### Dimension Diagram of Blocks with MX (Lubrication Units)



For L Dimension Configurable Type, G dimensions differ from those shown in the table below. For details, see P475.

### Precautions for Use

- Blocks are equipped with retainers (wire) to prevent balls from derailing. For blocks P469.
- 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 P471

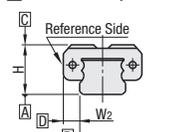
Part Number	Type	MX	H	L	Block Dimension										Guide Rail Dimension									
					W	L1	B	C	Sx2	L2	K	T	Cb	Grease Fitting		H1	W1	W2	Ca	Counterbored Hole		F	G	
Medium Load	(1 block) SSVR	(2 blocks) SSV2R	Blank: None -MX: Provided	24	100-700 (160)	34 (52)	41 (50.6)	26 (41)	-	M4x7 (4.5)	25	20	7 (7)	0.85	M5xP0.8	6	5	12.5	15	9.5 (18.5)	0.5	3.5x6x4.5	60	20
				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
	(1 block) SSVRL	(2 blocks) SSV2RL	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	
			33	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	
	(1 block) SSXR	(2 blocks) SSX2R	24	100-700 (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	
			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	
Heavy Load	(1 block) SSVW	(2 blocks) SSV2W	Blank: None -MX: Provided	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
				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
Heavy Load	(1 block) SSVWL	(2 blocks) SSV2WL	Blank: None -MX: Provided	24	100-700 (220)	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
				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.

Sx2 Dimensions: Dimensions in ( ) are for Wide Block Type.

kgf=Nx0.101972

### Preload and Accuracy Standards

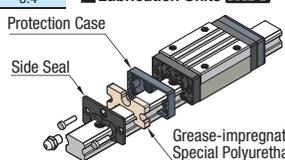


### Normal Clearance Type

Radial Clearance (µm)	Dimensional Accuracy (µm)	Standard Grade
H24 -4~+2	Height H Tolerance	±100
H28 -5~+2	Pair Variation of Height H	20
H33 -6~+3	Width W2 Tolerance	±100
	Pair Variation of Width W2	H24, 28 20 H33 30

Running Parallelism of Plane C against Plane A  
 Running Parallelism of Plane D against Plane B  
 See P.469

### 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 lubrication. For details see P466



Price [Configure Online](#)

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

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

H	L	Unit Price											
		Medium Load				Heavy Load							
		1 block	2 blocks	1 block	2 blocks	1 block	2 blocks	1 block	2 blocks				
24		SSVRL	SSVWL	SSV2RL	SSV2WL	SSXRL	SSXWL	SSX2RL	SSX2WL				
28													
33													

### MX (Lubrication Unit) Unit Price

H	Unit Price	
	1 block	2 blocks
24		
28		
33		



Ordering Example  
 Part Number - L  
 SSVRL28 - 575 (With Lubrication Units)  
 SSXR-MX28 - 575 (Low Temperature Black Chrome Plating)  
 RSXR28 - 575 (L Type Greased)  
 SSXR28L - 575 (G Type Greased)  
 SSXR28G - 575 (G Type Greased)  
 Low Temperature Black Chrome Plating and various Grease types available as alternative (Except Blocks with Lubrication Units).  
 For Days to Ship, Price and Performance see P475



Days to Ship [Configure Online](#)



Alterations  
 Part Number - L - (RLC, LLC --- etc.)  
 SSXR33 - 520 - RLC  
[Configure Online](#)

Alterations	Code	Spec.	Price Adder
Rail End Cut	Left End Cut LLC	Cuts rail ends. Ordering Code LLC	
		H L Cut N 24 10 10 28 33	
	Right End Cut RLC	Applicable to Selectable Type only. Overall length will be shorter by cutting. Not applicable to Heavy Load Type with H Dimension 24 and L dimension 100.	
		Pair variation of Height H between 2 rails is set within 20µm. Two rails are shipped as a pair. Specify the actual rail (even) number to order, not "pairs". Not applicable to High Grade Type. Not applicable to low temperature chrome plated products.	
Parallel Use of 2 Rails	WC		
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	

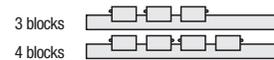
### Medium Load

H	B3: Price Adder				B4: Price Adder			
	Standard	Wide	Standard MX	Wide MX	Standard	Wide	Standard MX	Wide MX
24								
28								
33								

### Heavy Load

H	B3: Price Adder				B4: Price Adder			
	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)



### Selectable shortest rail length

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