

# Linear Guides for Heavy Load

## 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.

Similar Products Comparison Points | Select this product for high precision positioning, heavy load, and high frequency drive application.

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

**Industry Standard**



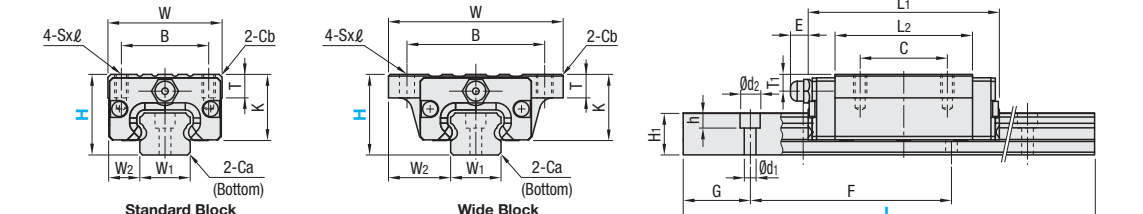
RoHS 10

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	1 block				2 blocks				MX (Lubrication Units)	L Dimension	Material Hardness
	Standard Grade		High Grade		Standard Grade		High Grade				
	Standard	High	Standard	High	Standard	High	Standard	High			
Standard Block	SXR	SXRJ	SX2R	SX2RJ	Blank: None -MX: Provided	Carbon Steel 58HRC~					
	SXRL	SXRLJ	SX2RL	SX2RLJ							
	SXW		SX2W								
	SXWL		SX2WL								
Wide Block	SXWT		SX2WT								
	SXWTL		SX2WTL								

Heat Resistant Temperature: -20 ~ 80°C

Dimension Diagram of Blocks with MX (Lubrication Units)



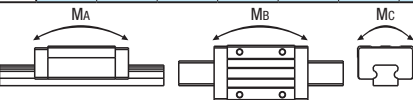
For L Configurable, G dimensions differ from those shown in the table below. For details, see P531.

- 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](http://download.misumi.jp/mol/fa_soft.html).

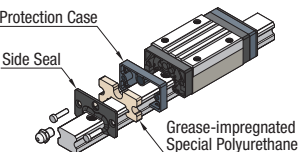
Part Number				H	L	Block Dimension													Guide Rail Dimension							
Type	MX	W	L <sub>1</sub>			B	C	Sxℓ	L <sub>2</sub>	K	T	Cb	Grease Fitting			H <sub>1</sub>	W <sub>1</sub>	W <sub>2</sub>	Ca	Countersink Hole d1xd2xd3	F	G				
			Standard										MX	Mounting Hole	E								T <sub>1</sub>			
Standard Block	(1 block)	(2 blocks)	Blank: None -MX: Provided	24	100~1480 (160)	34	57	66.6	26	26	M4x7	41	20	7	0.85	M5xP0.8	6	5	12.5	15	9.5	0.5	3.5x6x4.5	60	20	
	SXR	SX2R		28	160~1960 (220)	42	67	76.6	32	32	M5x8	47.6	22.5	7.5	1	M6xP0.75	13	6	15.5	20	11	0.6	6x9.5x8.5	60	20	
	SXRJ	SX2RJ		33	160~1960 (220)	48	83	92.6	35	35	M6x9	61	26.5	8	1	M6xP0.75	13	6.8	18	23	12.5	0.8	7x11x9	60	20	
	SXRL	SX2RL																								
Wide Block	(1 block)	(2 blocks)	Blank: None -MX: Provided	24	100~1480 (160)	52	57	66.6	41	26	4.5 (M5)	41	20	7	0.5	M5xP0.8	6	5	12.5	15	18.5	0.5	3.5x6x4.5	60	20	
	SXW	SX2W		28	160~1960 (220)	59	67	76.6	49	32	5.5 (M6)	47.6	22.5	9	1	M6xP0.75	13	6	15.5	20	19.5	0.6	6x9.5x8.5	60	20	
	SXWL	SX2WL		33	160~1960 (220)	73	83	92.6	60	35	7 (M8)	61	26.5	10	1	M6xP0.75	13	6.8	18	23	25	0.8	7x11x9	60	20	
	SXWT	SX2WT																								
	SXWTL	SX2WTL																								

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

H	Basic Load Rating		Allowable Static Moment		Mass		
	C (Dynamic) kN	Co (Static) kN	MA, Ms N · m	Mc N · m	Block kg	Wide	Guide Rail kg/m
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



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.

\*High Grade Types are not available.  
LTBC Plating products are available in an L dimension of up to 1000.

H	Selectable L	Unit Price					
		1 block			2 blocks		
24	100	SXR	SXW	SXWT	SX2R	SX2W	SX2WT
	160						
	220						
	280						
	340						
	400						
	460						
	520						
	580						
	640						
	700						
	760						
	820						
	880						
	940						
	1000						
28	*1120						
	*1240						
	*1360						
	*1480						
	160						
	220						
	280						
	340						
	400						
	460						
	520						
	580						
	640						
	700						
	760						
	820						
33	880						
	940						
	1000						
	1120						
	1240						
	*1360						
	*1480						
	*1600						
	*1720						
	*1840						
	*1960						
	160						
	220						
	280						
	340						
	400						
	460						
	520						
	580						
	640						
	700						
	760						
	820						
	880						
	940						
	1000						
	1120						
	1240						
	*1360						
	*1480						
	*1600						
	*1720						
	*1840						
	*1960						

L Dimension Configurable Type (1mm Increment)

H	Unit Price					
	1 block			2 blocks		
24	SXRL	SXWL	SXWTL	SX2RL	SX2WL	SX2WTL
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

Ordering Example

Part Number	-	L
SXP28	-	880
SXR-MX28	-	880
SXR28	-	880
SXRL28L	-	880
SXRL28G	-	880

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

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

Alterations

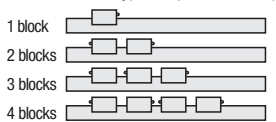
Part Number	-	L	-	(TMS, TMC--etc.)
SXR33	-	880	-	TMC

Alterations	Code	Spec.
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		H24 H28, 33
Block Stopper Plate		M3xP0.5 Depth 5 Tapped Hole For Stopper Plates Details, see P612.
LLC	Left End Cut LLC	Cuts rail ends. (Ordering Code) LLC
RLC	Right End Cut RLC	Cuts rail ends. (Ordering Code) LLC
Rail is cut with the product ID facing out (datum on other side).		Applicable to Selectable Type only. Overall length will be shorter by cutting. Not applicable to H dimension 24 of L dimension 100.
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 High Grade Type. 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: SXR24-400-B3. Not applicable to High Grade Type.
4-Block Specifications	B4	Add 3 blocks to 1-Block product to ship as 4-Block separate item. Selection Example: SXR24-400-B4. Not applicable to High Grade Type.

Additional Block Price

H	B3:1Code				B4:1Code			
	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 for B3/B4

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

Options for Linear Guide

Linear Guide Clamps	Rail Height Adjusting Blocks
P608	P609, 610
Block Derailment Prevention Parts / Dust Resistant Parts	
Stopper Bolts	Rail Push Plates
P612	P612
Block Stopper Plates	Linear Locks
P612	P613
Rail Mounting Hole Caps	Linear Guide Lock Units
P612	P614