

Linear Guides for Heavy Load

Normal Clearance

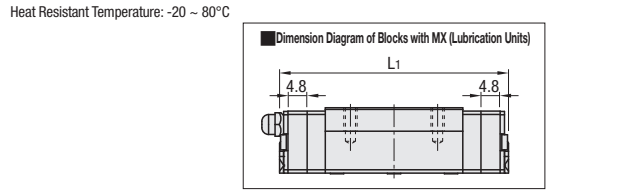
= For customers using industry standard products =
 Frame-surrounded products are compliant with the industry standard specifications (Standard Block Type).
 Select the block from this spec.

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

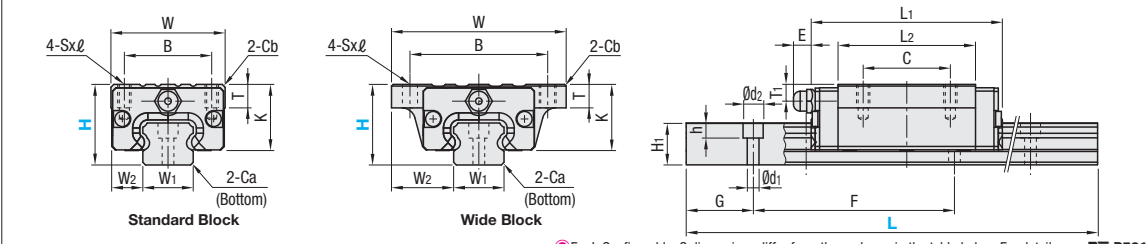
Lubrication Units **MX**
 Provides long term maintenance-free operation.



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



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.

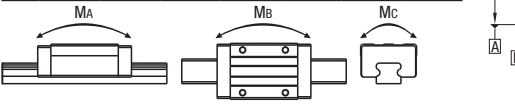


- Precautions for Use
 - Blocks are equipped with retainers to prevent balls from falling off. For how to handle the blocks, see P525.
 - Radial clearances and accuracies are not guaranteed if the blocks and rails are interchanged from the original set combinations.
 - Straight grooves are provided on 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.

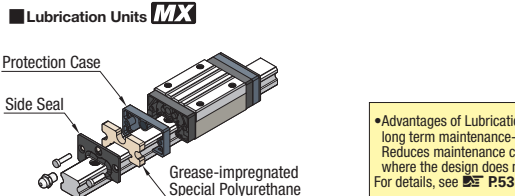
Part Number	Type	MX	H	L	Block Dimension										Guide Rail Dimension													
					L1		B	C	Sxℓ	L2	K	T	Cb	Grease Fitting			H1	W1	W2	Ca	Countersink Hole d1xd2xh	F	G					
					Standard	MX								M	E	T1												
Standard Block	(1 block)	Blank: None -MX: Provided	24	100-1480 (160)	34	57	66.6	26	26	M4x7	41	20	7	0.85	M5xP0.8	6	5	12.5	15	9.5	0.5	3.5x6x4.5	60	20				
	(2 blocks)																								SXR	SXRJ	SX2R	SX2RJ
																									SXRL	SXRLJ	SX2RL	SX2RLJ
																									SXW	SXWL	SX2W	SX2WL
Wide Block	(1 block)	Blank: None -MX: Provided	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				
	(2 blocks)																								SXRJ	SX2RJ		
																									SXRLJ	SX2RLJ		
																									SXW	SXWL	SX2W	SX2WL
Wide Block	(1 block)	Blank: None -MX: Provided	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				
	(2 blocks)																								SXRJ	SX2RJ		
																									SXRLJ	SX2RLJ		
																									SXW	SXWL	SX2W	SX2WL
Wide Block	(1 block)	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				
	(2 blocks)																								SXRJ	SX2RJ		
																									SXRLJ	SX2RLJ		
																									SXW	SXWL	SX2W	SX2WL
Wide Block	(1 block)	Blank: None -MX: Provided	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				
	(2 blocks)																								SXRJ	SX2RJ		
																									SXRLJ	SX2RLJ		
																									SXW	SXWL	SX2W	SX2WL
Wide Block	(1 block)	Blank: None -MX: Provided	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				
	(2 blocks)																								SXRJ	SX2RJ		
																									SXRLJ	SX2RLJ		
																									SXW	SXWL	SX2W	SX2WL

L Dimension: Dimensions in () are for 2-Block Type.
 Sxℓ Dimensions: Dimensions in () are for Wide Block Tapped Hole.
 kgf=Nx0.101972

H	Basic Load Rating			Allowable Static Moment			Mass		
	C (Dynamic) kN	Co (Static) kN	Ma, Mb N·m	Mc N·m	Block kg	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		



Preload and Accuracy Standards		Normal Clearance Type	
Radial Clearance (μm)	Dimensional Accuracy (μm)	Standard Grade	High Grade
H24 -4~+2	Height H Tolerance ±100	±100	±40
H28 -5~+2	Pair Variation of Height H 20	20	15
H33 -6~+3	Width W2 Tolerance ±100	±100	±20
	Pair Variation of Width W2 H24, 28 20		15
	H33 30		
	Running Parallelism of Plane C against Plane A		
	Running Parallelism of Plane D against Plane B		



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.
 *Low Temperature Black Chrome Plating products are available in an L dimension of up to 1000.

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

H	L Dimension Configurable Type (1mm Increment)					
	1 block			2 blocks		
	SXRL	SXWL	SXWT	SX2RL	SX2WL	SX2WTL
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.

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
SXR28	-	880
SXR-MX28	-	880
SXR28	-	880
SXRL28L	-	880
SXRL28G	-	880

(With Lubrication Units)
 (Low Temperature Black Chrome Plating)
 (L Type Greased)
 (G Type Greased)
 Low Temperature Black Chrome 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.
RLC		Right End Cut RLC
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.
3-Block Specifications	B3	Add 2 blocks to 1-Block product to ship as 3-Block separate item.
4-Block Specifications	B4	Add 3 blocks to 1-Block product to ship as 4-Block separate item.

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)
1 block	24	340	400
2 blocks	28	400	460
3 blocks	33	400	520
4 blocks			

Linear Guide Clamps	Rail Height Adjusting Blocks
P608	P609, 610

Block Derailment Prevention Parts / Dust Resistant Parts	Block / Rail Fixing Parts
Stopper Bolts P612	Rail Push Plates P612
Block Stopper Plates P612	Linear Locks P613
Rail Mounting Hole Caps P612	Linear Guide Lock Units P614