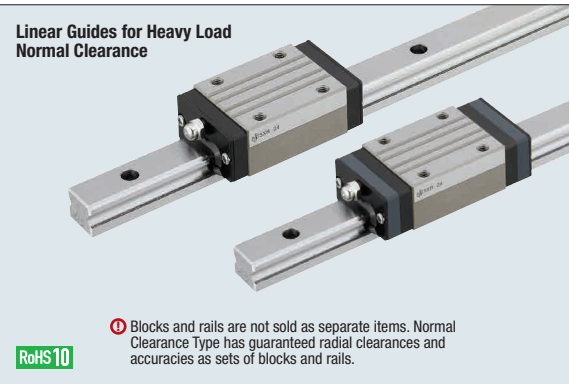


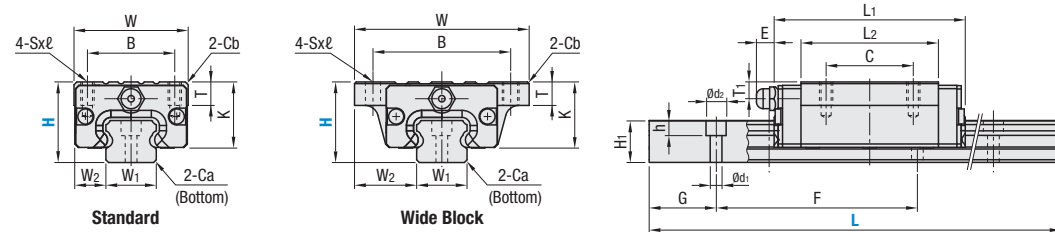
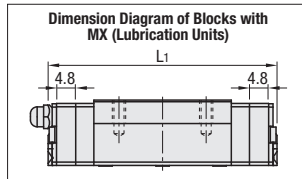
Linear Guides for Heavy Load

Normal Clearance



	Type				MX (Lubrication Units)	L Dimensions	Material Hardness
	1 Block		2 Blocks				
Standard Block	Standard Grade	High Grade	Standard Grade	High Grade	Blank: None -MX: Provided	Selectable	Carbon Steel 58 HRC min.
		SXR	SXRJ	SX2R		SX2RJ	
Wide Block						Selectable	
	Through Holes	SXW		SX2W		Configurable	
	Tapped Holes	SXWL		SX2WL		Selectable	
		SXWT		SX2WT		Configurable	
	SXWTL		SX2WTL	Configurable			

Heat Resistant Temperature: -20~80°C



For L Dimension Configurable Type, G dimensions differ from those shown in the table below. For details, see P.608.

Precautions for Use

- Blocks are equipped with retainers (wire) to prevent balls from derailing. For blocks P.602.
- 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 P.604.

	Part Number		MX	H	L	Block Dimensions											Guide Rail Dimensions								
	Type	MX				W	L ₁		B	C	S x ℓ	L ₂	K	T	Cb	Grease Fittings			H ₁	W ₁	W ₂	Ca	Counterbored Holes d ₁ x d ₂ x h	F	G
							Mounting Holes	E								T ₁									
Standard	1 Block	2 Blocks	Blank: None	24	100-1480 (160)	34	57	66.6	26	26	M4 x 7	41	20	7	0.85	M5 x P0.8	6	5	12.5	15	9.5	0.5	3.5 x 6 x 4.5	60	20
	SXR	SX2R		28	160-1960 (220)	42	67	76.6	32	32	M5 x 8	47.6	22.5	7.5	1	M6 x P0.75	13	6	15.5	20	11	0.6	6 x 9.5 x 8.5	60	20
	SXRL	SX2RL		33	160-1960 (220)	48	83	92.6	35	35	M6 x 9	61	26.5	8	1	M6 x P0.75	13	6.8	18	23	12.5	0.8	7 x 11 x 9	60	20
Wide Block	1 Block	2 Blocks	-MX: Provided	24	100-1480 (160)	52	57	66.6	41	26	4.5 (M5)	41	20	7	0.5	M5 x P0.8	6	5	12.5	15	18.5	0.5	3.5 x 6 x 4.5	60	20
	SXW	SX2W		28	160-1960 (220)	59	67	76.6	49	32	5.5 (M6)	47.6	22.5	9	1	M6 x P0.75	13	6	15.5	20	19.5	0.6	6 x 9.5 x 8.5	60	20
	SXWL	SX2WL		33	160-1960 (220)	73	83	92.6	60	35	7 (M8)	61	26.5	10	1	M6 x P0.75	13	6.8	18	23	25	0.8	7 x 11 x 9	60	20

L Dimension: Dimensions in () are for the minimum rail length of the 2-Block Type. S x ℓ Dimensions: Dimensions in () are for Wide Block Tapped Hole Type.

Part Number Example

Part Number	-	L
SXR28	-	880
SXR-MX28	-	880
RXR28	-	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).

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

Linear Guides for Heavy Load

Normal Clearance, continued

Part Number Alterations

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

Express Service is not available for TMS, TMC and WC.

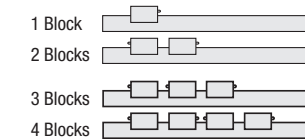
Alterations	Code	Specifications
TMS: Tapped Hole Machining + 2 Stopper Plates TMC: Tapped Hole Machining Only	TMS TMC	Adds tapped holes on both rail ends to avoid block fall-off. H24, H28, 33 M3 x P0.5 Depth 5 Tapped Hole Stopper Plates Details P.685.
Rail Ends Cut	Left End Cut LLC Right End Cut RLC	Cuts rail ends. Ordering Code: LLC H L Cut N 24 10 10 28 10 10 33 10 10
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. Must be ordered in multiples of 2. 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
4-Block Specifications	B4	Add 3 Blocks to 1-block product to ship as 4-block separate item. Selection Example: SXR24-400-B4

Selectable Shortest Rail Length

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

Position of Grease Fitting

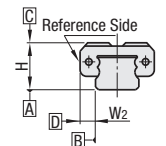
(Reference plane on the front side)



Preload & Accuracy Standards

Normal Clearance Type

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



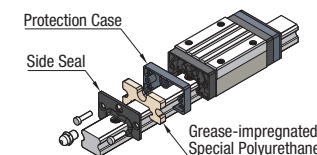
Dimension Precision (µm)	Standard Grade	High Grade
	Height H Tolerance	±100
Pair Variation of Height H	20	15
Width W ₂ Tolerance	±100	±20
	Pair Variation of Width W ₂	
	H24, 28	20
	H33	30
Running Parallelism of Plane C against Plane A	Refer to P.602	
Running Parallelism of Plane D against Plane B	Refer to P.602	

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 Rails kg/m
					Standard	Wide	
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



Blocks with Lubrication Units MX provide long term maintenance-free operation. Reduces maintenance cost. Most suitable where the design does not allow access for additional lubrication. For details, see P.599.

Options for Linear Guide

Linear Guide Clamps	Rail Height Adjusting Blocks
<p>P.680-681</p>	<p>P.682-684</p>
Block Derailment Prevention Parts / Cover Caps	Block / Rail Fixing Parts
<p>Stopper Bolts</p> <p>P.685</p> <p>Block Stopper Plates</p> <p>P.685</p> <p>Rail Mounting Hole Caps</p> <p>P.685</p>	<p>Rail Push Plates</p> <p>P.685</p> <p>Linear Locks</p> <p>P.686</p> <p>Linear Guide Lock Units</p> <p>P.687</p>