

# Linear Guides for Heavy Load (Stainless Steel)

With Plastic Retainers / Interchangeable – Light Preload

**Linear Guides for Heavy Load (Stainless Steel) – With Plastic Retainers**

Interchangeable, Light Preload

RoHS10

Material Hardness	Type		Block	Rail	L Dimensions
	1 Block	2 Blocks			
440C Stainless Steel or Equivalent 57 HRC min.	SSXRZ	SSX2RZ	SSXRB	SSRZL	Selectable
	SSXRLZ	SSX2RLZ		SSRZLF	Configurable

Heat Resistant Temperature: 0–50°C

Resin Retainer  
Steel Balls

Ⓢ 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.
  - For Interchangeable, Light Preload Type, rails and blocks can be interchanged.
  - 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		H	L	Block Dimensions										Guide Rail Dimensions						
Type				W	L <sub>1</sub>	B	C	S x ℓ	L <sub>2</sub>	K	T	Grease Fittings			H <sub>1</sub>	W <sub>1</sub>	W <sub>2</sub>	Counterbored Holes d, x d <sub>2</sub> x h	F	G
1 Block	2 Blocks											Mounting Holes	E	T <sub>1</sub>						
SSXRZ SSXRLZ	SSX2RZ SSX2RLZ	24	100–1480 (160)	34	56.8	26	26	M4 x 6	40	19.4	10	∅3	3	6	12.5	15	9.5	3.5 x 6 x 4.5	60	20
Block SSXRB	Rail SSRZL SSRZLF	28	160–1480 (220)	42	65.2	32	32	M5 x 7	48	22	12	M6 x P0.75	11	5.5	15.5	20	11	6 x 9.5 x 8.5	60	20
		33		48	81.6	35	35	M6 x 9	60	26	12	M6 x P0.75	11	7	18	23	12.5	7 x 11 x 9	60	20

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

**Part Number Example**

Part Number: SSXRZ28 - L: 640

**Part Number Alterations**

Part Number: SSXRZ28 - L: 640 - RLC

Alterations	Code	Specifications								
<p>Rail End Cut</p> <p>LLC RLC</p> <p>Rail is cut with the product ID facing out (datum on other side).</p>	<p><b>Left End Cut LLC</b></p> <p><b>Right End Cut RLC</b></p>	<p>Cuts rail ends.</p> <p>Ordering Code: LLC</p> <table border="1"> <thead> <tr> <th>H</th> <th>L Cut</th> <th>N</th> </tr> </thead> <tbody> <tr> <td>24</td> <td rowspan="3">10</td> <td rowspan="3">10</td> </tr> <tr> <td>28</td> </tr> <tr> <td>33</td> </tr> </tbody> </table> <p>Ⓢ Applicable to Selectable Type only.</p> <p>Ⓢ Overall length will be shorter by cutting.</p>	H	L Cut	N	24	10	10	28	33
H	L Cut	N								
24	10	10								
28										
33										
3-Block Specifications	<b>B3</b>	Add 2 Blocks to the 1-block product to ship as 3-block separate item. Selection Example: SSXRZ24-400-B3								
4-Block Specifications	<b>B4</b>	Add 3 Blocks to the 1-block product to ship as 4-block separate item. Selection Example: SSXRZ24-400-B4								

# Linear Guides for Heavy Load (Stainless Steel)

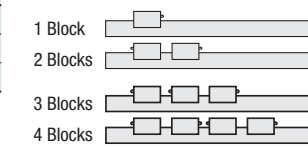
With Plastic Retainers / Interchangeable – Light Preload, *continued*

## Selectable Shortest Rail Length

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

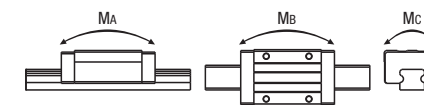
## Position of Grease Fitting

(Reference plane on the front side)



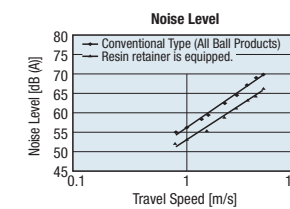
H	Basic Load Rating		Allowable Static Moment			Mass	
	C (Dynamic) kN	Co (Static) kN	MA N-m	Mb N-m	Mc N-m	Block kg	Guide Rails kg/m
24	7.9	15.6	74	62	78	0.20	1.4
28	11.1	21.8	124	104	149	0.28	2.3
33	17.9	33.5	242	203	266	0.51	3.1

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## Features of Plastic Retainers

Low noise levels and improved sound quality.



– Lack of mutual contact between balls results in low noise levels and improved sound quality.  
– Since there is no mutual contact abrasion between the balls, particle generation is less than those of conventional products.

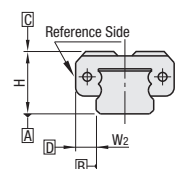
## Preload & Accuracy Standards

Interchangeable, Light Preload Type

Radial Clearance (μm)	
H24, 28	-4-0
H33	-5-0

Dimension Precision (μm)	Interchangeable
Height H Tolerance	±20
Pair Variation of Height H	15
Width W <sub>2</sub> Tolerance	±30
Pair Variation of Width W <sub>2</sub>	25
Running Parallelism of Plane C against Plane A	Refer to P.602
Running Parallelism of Plane D against Plane B	



## 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>