

Linear Guides for Ultra Heavy Load (Stainless Steel)

With Plastic Retainers / Interchangeable – Light Preload

Linear Guides for Ultra 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.	SSHRZ	SSH2RZ	SSHRB	SSHZL	Selectable
	SSHRLZ	SSH2RLZ		SSHZLF	Configurable

Heat Resistant Temperature: 0–50°C

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

Features: Linear Guides With Plastic Retainers prevent contact between balls and result in low noise levels under high-speed operation.

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.).
- Angled Grease Fitting Type.
- 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 ₁	B	C	S x ℓ	L ₂	K	T	Grease Fittings			H ₁	W ₁	W ₂	Counterbored Holes	F	G
1 Block	2 Blocks											Mounting Holes	E	T ₁				d ₁ x d ₂ x h		
SSHRZ SSHRLZ	SSH2RZ SSH2RLZ	30	220–1480	44	69.8	32	36	M5 x 6	50	25	12	M6 x P0.75	11	5	18	20	12	6 x 9.5 x 8.5	60	20
Block SSHRB	Rail SSHZL SSHZLF	40		48	79	35	35	M6 x 9	58	33	12	M6 x P0.75	11	10	22	23	12.5	7 x 11 x 9	60	20

Part Number Example

Part Number - L
SSHRZ30 - 640

Part Number Alterations

Part Number - L - (RLC, LLC, etc.)
SSHRZ30 - 640 - RLC

Alterations	Code	Specifications									
<div>Rail End Cut</div> <div></div> <div>Rail is cut with the product ID facing out (datum on other side).</div>	<div>Left End Cut LLC</div> <div>Right End Cut RLC</div>	<div>Cuts rail ends.</div> <div>Ordering Code: LLC</div> <table><thead><tr><th>H</th><th>L Cut</th><th>N</th></tr></thead><tbody><tr><td>30</td><td>10</td><td>10</td></tr><tr><td>40</td><td></td><td></td></tr></tbody></table> <div>Applicable to Selectable Type only.</div> <div>Overall length will be shorter by cutting.</div>	H	L Cut	N	30	10	10	40		
H	L Cut	N									
30	10	10									
40											
3-Block Specifications	B3	Add 1 Block to 2-block product to ship as 3-block separate item. Selection Example: SSHRZ30-400-B3									
4-Block Specifications	B4	Add 2 Blocks to 2-block product to ship as 4-block separate item. Selection Example: SSHRZ30-400-B4									

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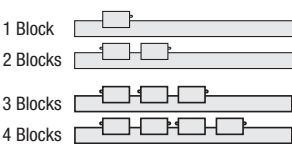
With Plastic Retainers / Interchangeable – Light Preload, *continued*

Selectable Shortest Rail Length

H	B3 (3-Block)	B4 (4-Block)
30	340	400
40	400	460

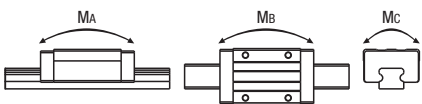
Position of Grease Fitting

(Reference plane on the front side)



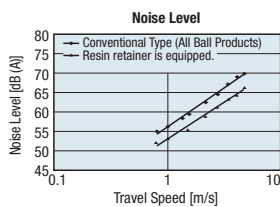
kgf=Nx0.101972

H	Basic Load Rating		Allowable Static Moment			Mass	
	C (Dynamic) kN	Co (Static) kN	MA N-m	Ms N-m	Mc N-m	Block kg	Guide Rails kg/m
30	16.3	29.6	167	141	199	0.33	2.6
40	22.4	37.5	246	207	295	0.55	3.6



Features of Plastic Retainers

Low noise levels and improved sound quality.



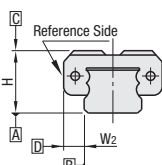
- Lack of mutual contact between balls results in low noise levels and improved sound quality.
- Since there is no mutual contact abrasion between the balls, particle generation is less than those of conventional products.

Preload & Accuracy Standards

Interchangeable, Light Preload Type

Radial Clearance (μm)	
H30, 40	-5–0

Dimensional Accuracy (μm)	Interchangeable
Height H Tolerance	±20
Pair Variation of Height H	15
Width W ₂ Tolerance	±30
Pair Variation of Width W ₂	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
Block Derailment Prevention Parts / Cover Caps	Block / Rail Fixing Parts
<div>Stopper Bolts</div> <div></div> <div>Block Stopper Plates</div> <div></div> <div>Rail Mounting Hole Caps</div> <div></div>	<div>Rail Push Plates</div> <div></div> <div>Linear Locks</div> <div></div> <div>Linear Guide Lock Units</div> <div></div>