

Linear Guides for Medium Load (Stainless Steel)

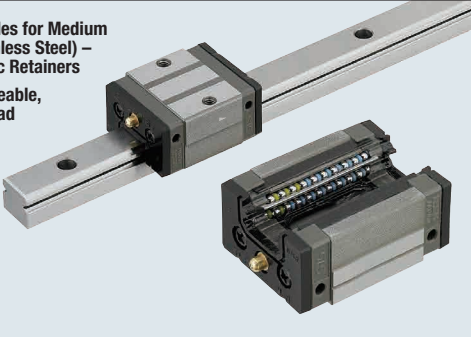
With Plastic Retainers / Interchangeable – Light Preload

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

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

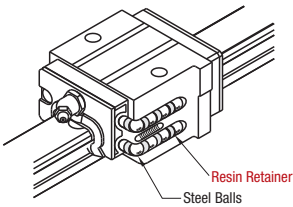
Interchangeable, Light Preload

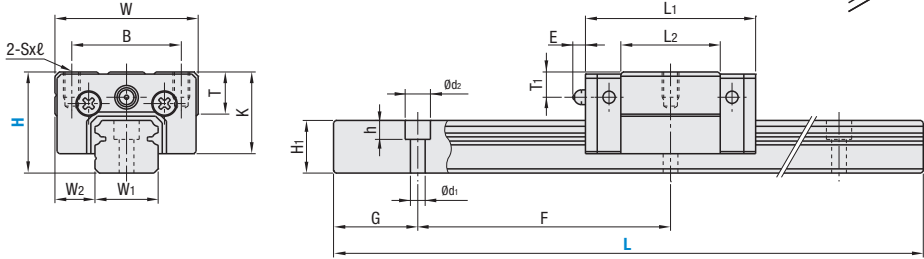
RoHS10



Material Hardness	Type		Blocks	Rails	L Dimensions
	1 Block	2 Blocks			
440C Stainless Steel or Equivalent 57 HRC min.	SSVRZ	SSV2RZ	SSVRB	SSRZL	Selectable
	SSVRLZ	SSV2RLZ		SSRZLF	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**.

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 ₁	B	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 x h		
SSVRZ	SSV2RZ	24	100–1480 (160)	34	40.4	26	M4 x 6	23.6	19.4	10	Ø3	3	6	12.5	15	9.5	3.5 x 6 x 4.5	60	20
SSVRLZ	SSV2RLZ	28	160–1480 (220)	42	47.2	32	M5 x 7	30	22	12	M6 x P0.75	11	5.5	15.5	20	11	6 x 9.5 x 8.5	60	20
Block SSVRB	Rail SSRZL SSRZLF	33		48	59.6	35	M6 x 9	38	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 - L

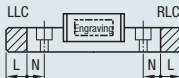
SSVRZ28 - 220



Part Number Alterations

Part Number - L - (RLC / LLC)

SSVRZ28 - 640 - RLC

Alterations	Code	Specifications								
 Rail is cut with the product ID facing out (datum on other side).	Left End Cut LLC	Cuts rail ends. Ordering Code: LLC <table><tr><th>H</th><th>L Cut</th><th>N</th></tr><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></table>	H	L Cut	N	24	10	10	28	33
	H	L Cut	N							
24	10	10								
28										
33										
	Right End Cut RLC	<div>ⓘ Applicable to Selectable Type only.</div> <div>ⓘ Overall length will be shorter by cutting.</div>								
3-Block Specifications	B3	Add 2 Blocks to the 1-block product to ship as 3-block separate item. Selection Example: SSVRZ24-400-B3								
4-Block Specifications	B4	Add 3 Blocks to the 1-block product to ship as 4-block separate item. Selection Example: SSVRZ24-400-B4								

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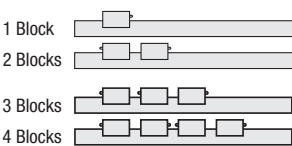
With Plastic Retainers / Interchangeable – Light Preload, *continued*

Selectable Shortest Rail Length

H	B3 (3-Block)	B4 (4-Block)
24	280	340
28	340	400
33	340	400

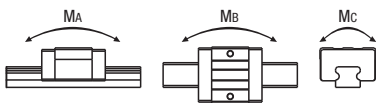
Position of Grease Fitting

(Reference plane on the front side)



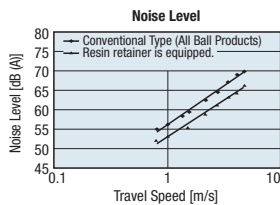
H	Basic Load Rating		Allowable Static Moment			Mass	
	C (Dynamic) kN	Co (Static) kN	MA N·m	MB N·m	MC N·m	Blocks kg	Guide Rails kg/m
24	4.9	7.8	21	18	39	0.14	1.4
28	7.25	11.8	40	34	80	0.19	2.3
33	12.7	20.8	96	81	164	0.34	3.1

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Features of Plastic Retainers

Low noise levels and improved sound quality.



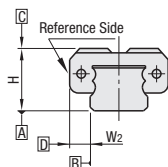
- Lack of mutual contact between balls results in low noise levels and improved sound quality.
- Since there is no mutual contact abrasion between the balls, particle generation is less than those of conventional products.

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 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
 P.680–681	 P.682–684
Block Derailment Prevention Parts / Cover Caps	Block / Rail Fixing Parts
Stopper Bolts  P.685	Rail Push Plates  P.685
Block Stopper Plates  P.685	Linear Locks  P.686
Rail Mounting Hole Caps  P.685	Linear Guide Lock Units  P.687