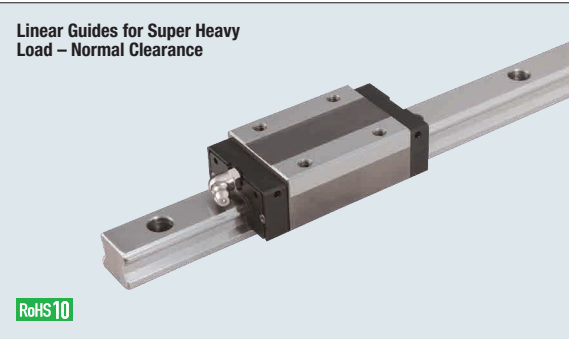


# Linear Guides for Super Heavy Load

## Normal Clearance

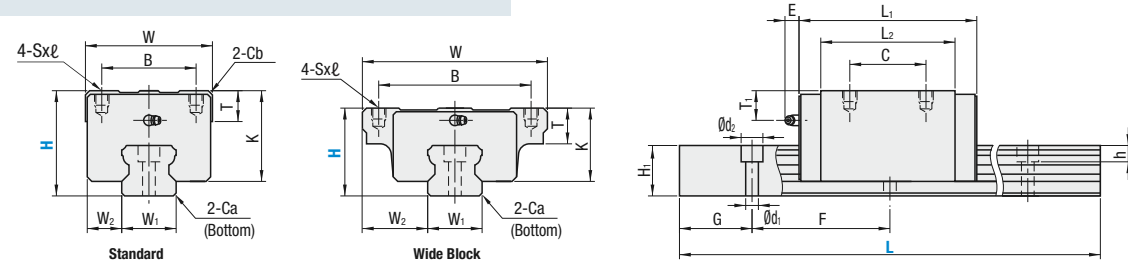
Linear Guides for Super Heavy Load – Normal Clearance



	Type		L Dimensions	Material Hardness
	1 Block	2 Blocks		
Standard	C-SHR	C-SH2R	Selectable	Rails / Blocks: Carbon Steel 58–62 HRC min.
	C-SHRL	C-SH2RL	Configurable	
Block Wide	C-SHWT	C-SH2WT	Selectable	
	C-SHWTL	C-SH2WTL	Configurable	

Heat Resistant Temperature: -20–80°C

RoHS10



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

### Precautions for Use

- This product is All Ball Type. Blocks are equipped with retainers to prevent balls from derailing. For how to handle the blocks, see P.602.
- Radial clearances and accuracies are not guaranteed if the blocks and rails are interchanged from the original set combinations.
- Thick grooves are provided on the datum planes of blocks and rails. Be sure to match the datum planes 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 H28 and Angled Type for H30, H36, H40, H42 and H45.
- Grease Fitting is screw-in type, and thus, can be repositioned.
- For installation and maintenance of Linear Guides, see P.606.

	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	Cb	Grease Fittings			H <sub>1</sub>	W <sub>1</sub>	W <sub>2</sub>	Ca	Counterbored Holes d <sub>1</sub> x d <sub>2</sub> x h	F	G
	1 Block	2 Blocks												Mounting Holes	E	T <sub>1</sub>							
Standard	C-SHR C-SHRL	C-SH2R C-SH2RL	28	100–1960 (160)	34	55.9	26	26	M4x5	39.5	24.8	10.2	0.5	M4x0.7	7	9.5	13	15	9.5	0.5	4.5x7.5x6	60	20
			30	160–1960 (220)	44	74	32	36	M5x5	54	25.4	8.2	0.5	M6x1	14	6.5	16.5	20	12	0.5	6x9.5x8.5	60	20
			40	200–1960 (280)	48	80	35	35	M6x6.5	59	34.2	12.15	1.0	M6x1	14	11.5	20	23	12.5	0.9	7x11x9	60	20
			45	200–1960 (280)	60	95.3	40	40	M8x10	69.3	38	11	1.0	M6x1	14	11	23	28	16	1.0	9x14x12	80	20
Wide Block	C-SHWT C-SHWTL	C-SH2WT C-SH2WTL	24	100–1960 (160)	47	55.9	38	30	M5x8	39.5	20.8	8	—	M4x0.7	7	5.5	13	15	16	0.5	4.5x7.5x6	60	20
			30	160–1960 (220)	63	74	53	40	M6x10	54	25.4	10	—	M6x1	14	6.5	16.5	20	21.5	0.5	6x9.5x8.5	60	20
			36	200–1960 (280)	70	80	57	45	M8x12	59	30.2	12	—	M6x1	14	7.5	20	23	23.5	0.9	7x11x9	60	20
			42	200–1960 (280)	90	95.3	72	52	M10x15	69.3	35	15	—	M6x1	14	8	23	28	31	1.0	9x14x12	80	20

Part Number Example	Part Number	L
C-SHR28	- 880	
C-SHW24	- 880	

# Linear Guides for Super Heavy Load

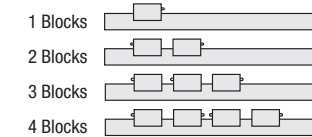
## Normal Clearance, continued

Part Number Alterations	Part Number	L	(B3)
	C-SHR30	- 820	- B3

Alterations	Code	Specifications
3-Block Specifications	B3	Add 2 Blocks to 1-block product to ship as 3-block separate item. Selection Example: C-SHR30-400-B3
4-Block Specifications	B4	Add 3 Blocks to 1-block product to ship as 4-block separate item. Selection Example: C-SHR30-460-B4

### Position of Grease Fitting

(Reference plane on the front side)



### Selectable Shortest Rail Length

H	B3 (3-Block)	B4 (4-Block)
24 / 28	340	400
30	400	460
36 / 40	400	520
42 / 45	440	520

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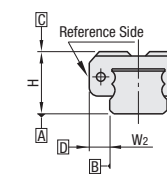
H	Basic Load Rating			Allowable Static Moment			Mass		
	C (Dynamic) kN	C0 kN	MA N·m	Mb N·m	Mc N·m	Block kg		Guide Rails kg/m	
						Standard	Wide		
24 / 28	5.1	10.2	54.2	54.2	79.9	0.20	0.20	1.32	
30	8.6	16.8	117.3	117.3	178.6	0.29	0.40	2.28	
36 / 40	11.0	20.8	158.3	158.3	254.0	0.55	0.62	3.17	
42 / 45	16.0	29.4	263.4	263.4	432.5	0.85	1.42	4.54	



### Preload & Accuracy Standards

#### Interchangeable, Light Preload Type

Radial Clearance (μm)	
H24 / H28	-4–+4
H30	-5–+5
H36 / H40	-6–+6
H42 / H45	-7–+7



Dimension Precision (μm)	
Height H Tolerance	±120
Variation of Height H	40
Width W <sub>2</sub> Tolerance	±120
Variation of Width W <sub>2</sub>	40
Running Parallelism of Plane C against Plane A	Refer to P.602
Running Parallelism of Plane D against Plane B	