C-WISUMI Linear Guides for Medium Load

Normal Clearance

Select C-VALUE Products for medium-accuracy positioning, medium/low load, and medium-to-low frequency drive application.

When you comsider using C-VALUE Products, select an appropriate model after comparing the specifications with those of the existing products. BT P.589, P.593



guaranteed radial clearances and accuracies as sets of blocks and rails.

	Ту	ре				
	1 block	2 blocks	L Dimension	MMaterial Hardness		
	Standard Grade Standard Grad		Dimension	III la ciless		
Standard Block	C-SVR	C-SV2R	Selectable			
Stan Bloc	C-SVRL	C-SV2RL	Configurable	Rails / Blocks: Carbon Steel		
994	C-SVWT	C-SV2WT	Selectable	58HRC~62HRC		
Vide Nock apped	C-SVWTL	C-SV2WTL	Configurable			

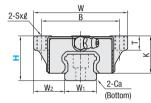
Heat Resistant Temperature: -20 ~ 80°C

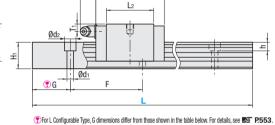
● For L Dimension Configurable Type, any L dim. on the Price List is not available:

C-SVRL24-170 (Configurable): ○

C-SVRL24-160 (Selectable): X····Place order for C-SVR24-160

2-Sxl





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
P547.
Radial dearances 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.
Running parallelism is the value measured after the rails mounted, (it is not the value measured before the rails are fastened with screws)
The accuracy of Linear Cultudes is murantaned after mounting the rail (after fastening screws on the

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 Angled Type for H28 and H33.

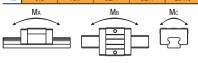
• Grease Fitting is screw-in type, and thus, can be repositioned.
• For installation and maintenance of Linear Guides, see EF P.551.

							Blo	ck Di	men	sion					C	auide	Rail	Dimension	n	
Туре	н	L				•		.,	_	٥.	Greas	e Fitti	ng		147		_	Counterbored Hole		G
			W	L1	В	SXL	L2	K	'	Cb	Mounting Hole	E	T ₁	H 1	W1	W2	Ca	d1xd2xh	٢	G •
	24	100~1480 (160)	34	39.3	26	M4x5	22.9	20.8	6.2	0.5	M4x0.7	6	5.5	13	15	9.5	0.5	4.5x7.5x6	60	20
(1 block) (2 blocks)	28	160~1960 (220)	42	47.8	32	M5x5	27.8	23.4	7.2	0.5	M6x1	12	4.5	16.5	20	11	0.5	6x9.5x8.5	60	20
C-SVRL C-SV2RL	33	160~1960 (220)	48	56.2	35	M6x6	35.2	27.2	8.15	1	M6x1	12	4.5	20	23	12.5	0.9	7x11x9	60	20
	42	280~1960	60	66.4	40	M8x8	40.4	35	8.5	1.0	M6x1	14	8	23	28	16	1	9x14x12	80	20
(1 block) (2 blocks)	24	100~1480 (160)	52	39.3	41	M5x7	22.9	20.8	7	-	M4x0.7	7	5.5	13	15	18.5	0.5	4.5x7.5x6	60	20
	28	160~1960 (220)	59	47.8	49	M6x9	27.8	23.4	9	-	M6x1	14	4.5	16.5	20	19.5	0.5	6x9.5x8.5	60	20
	(1 block) (2 blocks) C-SVR C-SV2R C-SV2RL (1 block) (2 blocks) C-SWT C-SV2WT	(1 block) (2 blocks) C-SVR C-SV2R C-SVRL C-SV2RL (1 block) (2 blocks) C-SWTT C-SV2WT	24 100~1480 (160) 28 160~1960 (220)	24 100~1480 34	24 100~1480 34 39.3 28 160~1960 42 47.8 27.5	C-SVRL C-SV2RL C-SV2RL C-SVWT C-SV2WT C-SV2W	C-SVRL C-SV2RL 24 100~1480 34 39.3 26 M4x5	Type H L W L1 B Sxℓ L2 Columbia Columbi	Type H L W L1 B Sxℓ L2 K 24 100~1480 34 39.3 26 M4x5 22.9 20.8 28 160~1960 42 47.8 32 M5x5 27.8 23.4 28 160~1960 48 56.2 35 M6x6 35.2 27.2 42 280~1960 60 66.4 40 M8x8 40.4 35 (1 block) (2 blocks) (2 blocks) (220) 42 280~1960 60 66.4 40 M8x8 40.4 35 (1 block) (2 blocks) (2 blocks) (160) 52 39.3 41 M5x7 22.9 20.8 (3 160~1960 52 39.3 41 M5x7 22.9 20.8 160~1960 52 39.3 41 M5x7 22.9 20.8	Type H L W L1 B Sxê L2 K T 24 100~1480 34 39.3 26 M4x5 22.9 20.8 6.2 28 160~1960 42 47.8 32 M5x5 27.8 23.4 7.2 28 160~1960 48 56.2 35 M6x6 35.2 27.2 8.15 42 280~1960 60 66.4 40 M8x8 40.4 35 8.5 (1 block) (2 blocks) (2 blocks) (250) 42 4100~1480 (160) 52 39.3 41 M5x7 22.9 20.8 7 C-SVWT C-SVZWT C-	C-SVRL C-SV2RL C-SV2RL C-SV2RL C-SVWT C-SV2WT	Type H L W L1 B Sxℓ L2 K T Cb Greas: A	Type H L W L1 B Sx2 L2 K T Cb Grease Fitti Mounting E 24 100~1480 (160) 34 39.3 26 M4x5 22.9 20.8 6.2 0.5 M4x0.7 6 28 160~1960 42 47.8 32 M5x5 27.8 23.4 7.2 0.5 M6x1 12 C-SVRL C-SV2RL 33 160~1960 48 56.2 35 M6x6 35.2 27.2 8.15 1 M6x1 12 42 280~1960 60 66.4 40 M8x8 40.4 35 8.5 1.0 M6x1 14 (I block) (2 blocks) (2 blocks) (160) 52 39.3 41 M5x7 22.9 20.8 7 - M4x0.7 7 C-SVWTL C-SV2WTL C	Type H L W L1 B Sx\(\ell\) L2 K T Cb Grease Fitting A	Type H L W L1 B Sx2 L2 K T Cb Grease Fitting Mounting E T1 24 100~1480 (160) 34 39.3 26 M4x5 22.9 20.8 6.2 0.5 M4x0.7 6 5.5 13 28 160~1960 42 47.8 32 M5x5 27.8 23.4 7.2 0.5 M6x1 12 4.5 16.5 (25) (25) (220) 42 280~1960 60 66.4 40 M8x8 40.4 35 8.5 1.0 M6x1 14 8 23 (I block) (2 blocks) (2 blocks) (2 blocks) (2 blocks) (2 block) (2 c)	Type H L W L1 B Sxl L2 K T Cb Grease Fitting Mounting E T1 W1 24 100-1480 (160) 34 39.3 26 M4x5 22.9 20.8 6.2 0.5 M4x0.7 6 5.5 13 15 28 160-1960 (220) 42 47.8 32 M5x5 27.8 23.4 7.2 0.5 M6x1 12 4.5 16.5 20 28 160-1960 48 56.2 35 M6x6 35.2 27.2 8.15 1 M6x1 12 4.5 20 23 42 280-1960 60 66.4 40 M8x8 40.4 35 8.5 1.0 M6x1 14 8 23 28 (I block) (2 blocks) (2 blocks) (220) 24 100-1480 (160) 52 39.3 41 M5x7 22.9 20.8 7 - M4x0.7 7 5.5 13 15 C-SVWT C-SVZWT	Type H L W L1 B SxL L2 K T Cb Grease Fitting H1 W1 W2 24 100~1480 (160) 34 39.3 26 M4x5 22.9 20.8 6.2 0.5 M4x0.7 6 5.5 13 15 9.5 28 160~1960 42 47.8 32 M5x5 27.8 23.4 7.2 0.5 M6x1 12 4.5 16.5 20 11 28 160~1960 48 56.2 35 M6x6 35.2 27.2 8.15 1 M6x1 12 4.5 20 23 12.5 42 280~1960 60 66.4 40 M8x8 40.4 35 8.5 1.0 M6x1 14 8 23 28 16 (1 block) (2 blocks) (2 blocks) 42 100~1480 (160) 52 39.3 41 M5x7 22.9 20.8 7 - M4x0.7 7 5.5 13 15 18.5 (1 block) (2 blocks) 22 blocks) 24 100~1480 (160) 52 39.3 41 M5x7 22.9 20.8 7 - M4x0.7 7 5.5 13 15 18.5 (2 blocks) (2 blocks) 22 blocks) 24 100~1480 (160) 52 39.3 41 M5x7 22.9 20.8 7 - M4x0.7 7 5.5 13 15 18.5 (3 block) (2 blocks) 22 blocks) 24 100~1480 (160) 52 39.3 41 M5x7 22.9 20.8 7 - M4x0.7 7 5.5 13 15 18.5 (3 block) (2 blocks) (2 blocks) (160~1960 59 47.8 40 M6x9 27.8 23.4 0 0 0 0 M6x1 14 4.5 16.5 20 19.5	Type H L W L1 B Sxt L2 K T Cb Grease Fitting Hole E T1 W1 W2 Ca 24 100~1480 (160) 34 39.3 26 M4x5 22.9 20.8 6.2 0.5 M4x0.7 6 5.5 13 15 9.5 0.5 28 160~1960 42 47.8 32 M5x5 27.8 23.4 7.2 0.5 M6x1 12 4.5 16.5 20 11 0.5 28 160~1960 48 56.2 35 M6x6 35.2 27.2 8.15 1 M6x1 12 4.5 20 23 12.5 0.9 42 280~1960 60 66.4 40 M8x8 40.4 35 8.5 1.0 M6x1 14 8 23 28 16 1 (I block) (2 blocks) (2 blocks) (200 C-SVVR	Type H L W L1 B Sxt L2 K T Cb Mounting E T1 W1 W2 Ca Counterbrored Hole d1xdzxh 24 100~1480 (160) 34 39.3 26 M4x5 22.9 20.8 6.2 0.5 M4x0.7 6 5.5 13 15 9.5 0.5 4.5x7.5x6 28 160~1960 42 47.8 32 M5x5 27.8 23.4 7.2 0.5 M6x1 12 4.5 16.5 20 11 0.5 6x9.5x8.5 C-SVR C-SVR C-SV2R C-SV2R C-SV2R 20.0 48 56.2 35 M6x6 35.2 27.2 8.15 1 M6x1 12 4.5 20 23 12.5 0.9 7x11x9 42 280~1960 60 66.4 40 M8x8 40.4 35 8.5 1.0 M6x1 14 8 23 28 16 1 9x14x12 (I block) (2 blocks) (2 blocks) (2 blocks) (160) 52 39.3 41 M5x7 22.9 20.8 7 - M4x0.7 7 5.5 13 15 18.5 0.5 4.5x7.5x6	Type H L W L1 B Sxl L2 K T Cb Greas Fitting Mounting E T1 W1 W2 Ca Great Hole dixdxh C SVR C SVR C SV2R C

kaf=N×0.10972

Allowable Load

						•			
	Basic Loa	ad Rating	Allowak	Moment	Mass				
н	C (Dynamic) Co		Ма Мв Мс		Bloc	k kg	Guide Rail		
	kN	kN	N∙m	N∙m	N∙m	Standard	Wide	kg/m	
24	3.2	5.2	13.3	13.3	40.8	0.07	0.098	1.32	
28	4.7	7.1	18.6	18.6	75.2	0.11	0.15	2.28	
33	6.9	10.6	38.0	38.0	129.7	0.18	0.26	3.17	
42	0.3	13.7	52 /	52.4	201.0	0.48		4.54	



■Preload and Accuracy Standards Normal Clearance Type

Reference	e Side
=	•
A	W ₂

	Radial Cle	arance (µm)
\Rightarrow	H24	-4~+4
ζ+)	H28	-5~+5
	H33	-6~+6
)	H42	-7~+7
	Dimensional	Accuracy (um)

Dimensional Accuracy (µm)					
Height H Tolerance	±120				
Variation of Height H	40				
Width W ₂ Tolerance	±120				
Variation of Width W2	40				
Running Parallelism of Plane C against Plane A	See				
Running Parallelism of Plane D against Plane B	P.547				

Linear Guide
Linear Guide: General Information Site
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L Dimension Configurable Type (10mm Increment) Additional Price

	Unit Price								
н	1 b	lock	2 bl	ocks					
	C-SVRL	C-SVWTL	C-SV2RL	C-SV2WTL					
24									
28									
33		-		-					
42		-		-					

©L Dimension Configurable Type (10mm Increment)
Add the above amount to the unit price of the Selectable Type longer than, and closest to this L Dimension Configurable Type.











Alterations	Code	Spec.
3-Block Specifications	В3	Add 2 blocks to 1-block product to ship as 3-block separate item. Selection Example: C-SVR24-400-B3
4-Block Specifications	B4	Add 3 blocks to 1-block product to ship as 4-block separate item. Selection Example: C-SVR24-400-B4

Additional Block Price

н	B3: /1	Code	B4: /1Code				
п	C-SVR	C-SVWT	C-SVR	C-SVWT			
24							
28							
33		-		-			
42		-		-			

Position of Grease Fitting (Reference plane on the front side)
1 block
2 blocks
3 blocks
4 blocks

Sel	Selectable Shortest Rail Length for B3/B4							
Н	B3 (3-block)	B4 (4-block)						
24	340	400						
28	400	460						
33	400	520						
42	440	520						