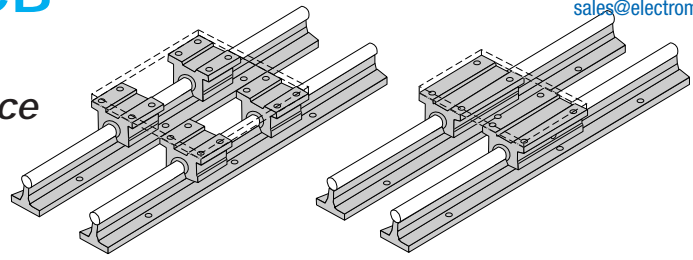


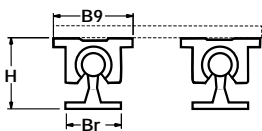
Continuous Support 1CB

Linear Guide #6

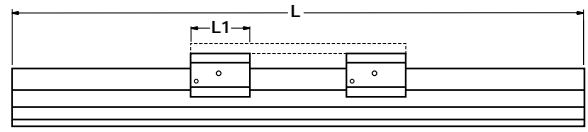
Fully Supported, Highest Performance
 Industry Standard Dimensions



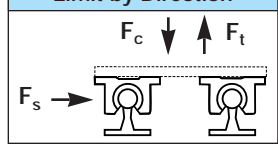
INCH



Double Continuously Supported Linear Guide with 4 Pillow Blocks



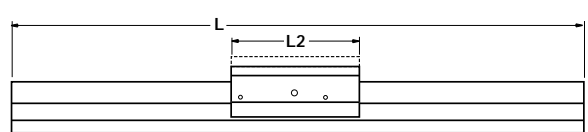
Load Rating and Limit by Direction



	Dynamic Load Rating	Load Limit
F_c	C	C
F_t	0.5C	0.5C
F_s	C	0.5C

Dynamic Load Rating
 Load value used in life calculation.
Load Limit
 Maximum allowable load applied to bearing.

Double Continuously Supported System with 2 Twin Pillow Blocks



Continuously Supported Linear Guide 1CB Double with 4 Pillow Blocks (Dimensions in inches)

Part Number	Nominal Diameter	L1	H	Br	B9	Pillow Block	Shaft Support Rail Assembly
1CB-08-FAO	.50	1.50	1.812	1.50	2.00	SPB-8-OPN-XS	SRA-8-XS
1CB-12-FAO	.75	1.88	2.437	1.75	2.75	SSUPBO-12-XS	SRA-12-XS
1CB-16-FAO	1.00	2.63	2.937	2.13	3.25	SSUPBO-16-XS	SRA-16-XS
1CB-20-FAO	1.25	3.38	3.625	2.50	4.00	SSUPBO-20-XS	SRA-20-XS
1CB-24-FAO	1.50	3.75	4.250	3.00	4.75	SSUPBO-24-XS	SRA-24-XS

Continuously Supported Linear Guide 1CB Double with 2 Twin Pillow Blocks (Dimensions in inches)

Part Number	Nominal Diameter	L2	H	Br	B9	Maximum Stroke Length	Pillow Block	Shaft Support Rail Assembly
1CB-08-HAO	.50	3.5	1.812	1.50	2.00	L-(3.5)	TWN-8-OPN-XS	SRA-8-XS
1CB-12-HAO	.75	4.5	2.437	1.75	2.75	L-(4.5)	SSUTWNO-12-XS	SRA-12-XS
1CB-16-HAO	1.00	6.0	2.937	2.13	3.25	L-(6.0)	SSUTWNO-16-XS	SRA-16-XS
1CB-20-HAO	1.25	7.5	3.625	2.50	4.00	L-(7.5)	SSUTWNO-20-XS	SRA-20-XS
1CB-24-HAO	1.50	9.0	4.250	3.00	4.75	L-(9.0)	SSUTWNO-24-XS	SRA-24-XS

Continuously Supported Linear Guide 1CB Benefits:

- Requires only one part number to specify the entire linear guide.
- Allows for custom table mounting.
- Used in continuously supported applications when rigidity is required.

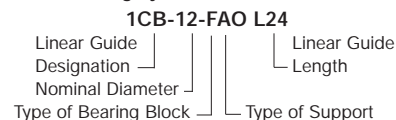
Continuously Supported Linear Guide 1CB Components: †

- 4 Super Smart Ball Bushing* open type pillow blocks or 2 Super Smart Ball Bushing open type twin pillow blocks.
- 2 60 Case* LinearRace* shaft Support Rail Assemblies.

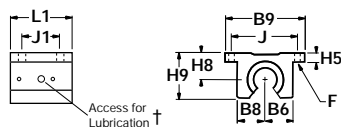
Specifying a Thomson Linear Guide:

1. Determine the proper system for your load and life requirements.
2. Select the part number.
3. Add the letter "L" followed by the overall length in inches, as a suffix to the part number.

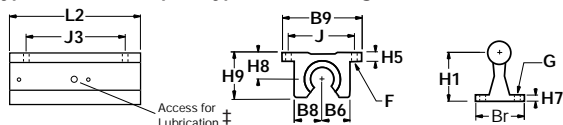
Part Numbering System



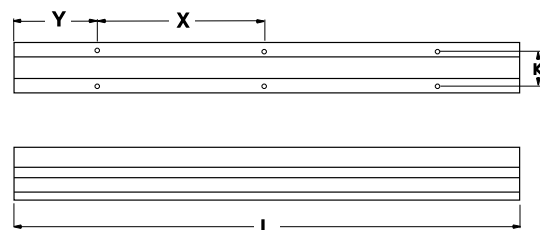
Type SSUPBO Open Type Super Smart Ball Bushing Pillow Block
Type SPB-OPN Open Type Ball Bushing Pillow Block



Type SSUTWN Open Type Super Smart Ball Bushing Twin Pillow Block
Type TWN-OPN Open Type Ball Bushing Twin Pillow Block



Type SRA LinearRace Shaft Support Rail Assembly



† Size .500 inch has oil lubricant fitting.
Sizes .625 and above have 1/4-28 access for lubrication.

Type SPB-OPN and SSUPBO Pillow Blocks (Dimensions in Inches)												Type TWN-OPN and SSUTWNO Pillow Blocks						
Part Number	Nom. Dia.	L1	H9	H8	H5	B9	B8	B6	J	J1	F		Wt. lb	Part Number	Nom. Dia.	L2	J3	Wt. lb
											Bolt	Hole						
SPB-8-OPN-XS	.50	1.50	1.12	.687	.25	2.00	.75	.69	1.69	1.00	#6	.16	.20	TWN-8-OPN-XS	.50	3.5	2.5	.40
SSUPBO-12-XS	.75	1.88	1.56	.937	.31	2.75	1.00	.94	2.38	1.25	#8	.19	.51	SSUTWNO-12-XS	.75	4.5	3.5	1.02
SSUPBO-16-XS	1.00	2.63	2.00	1.187	.38	3.25	1.25	1.19	2.88	1.75	#10	.22	1.03	SSUTWNO-16-XS	1.00	6.0	4.5	2.06
SSUPBO-20-XS	1.25	3.38	2.56	1.500	.43	4.00	1.63	1.50	3.50	2.00	#10	.22	2.15	SSUTWNO-20-XS	1.25	7.5	5.5	4.30
SSUPBO-24-XS	1.50	3.75	2.94	1.750	.50	4.75	1.88	1.75	4.12	2.50	1/4	.28	3.29	SSUTWNO-24-XS	1.50	9.0	6.5	6.88

Housing Material: Aluminum Alloy Black Anodized

Housing Material: Aluminum Alloy Black Anodized

Type SRA LinearRace Shaft Support Rail Assembly (Dimensions in Inches)										Wt. lb/ft		
Part Number	Nom. Dia.	H1	H7	Br	K	X	Y	G		Wt. lb/ft		
								Bolt	Hole			
SRA-8-XS	.50	1.125	.19	1.50	1.00	4	2	#6	.17	1.26		
SRA-12-XS	.75	1.500	.25	1.75	1.25	6	3	#10	.22	2.50		
SRA-16-XS	1.00	1.750	.25	2.13	1.50	6	3	1/4	.28	4.06		
SRA-20-XS	1.25	2.125	.31	2.50	1.88	6	3	5/16	.34	6.30		
SRA-24-XS	1.50	2.500	.38	3.00	2.25	8	4	5/16	.34	8.60		

LinearRace Shaft Support Rail Material: Aluminum Alloy Black Anodized

Maximum length of LinearRace Shaft Support Rail is 72 inches. If longer continuous one-piece LinearRace Shaft Support Rails are required, contact the Thomson Linear Guide Application Engineering department.

Dynamic Load Rating (C) Matrix (4 million inches travel)			
Linear Guide Assembly Part No.	Dynamic Load Rating, C (lbf) (Even Distribution)	Pillow Block Part No.	Pillow Block Dynamic Load Rating, C (lbf)
1CB-08-FAO	580	SPB-8-OPN-XS	145
1CB-12-FAO	3600	SSUPBO-12-XS	900
1CB-16-FAO	6000	SSUPBO-16-XS	1500
1CB-20-FAO	7460	SSUPBO-20-XS	1865
1CB-24-FAO	12320	SSUPBO-24-XS	3080

Dynamic Load Rating (C) Matrix (4 million inches travel)			
Linear Guide Assembly Part No.	Dynamic Load Rating, C (lbf) (Even Distribution)	Pillow Block Part No.	Pillow Block Dynamic Load Rating, C (lbf)
1CB-08-HAO	580	TWN-8-OPN-XS	290
1CB-12-HAO	3600	SSUTWNO-12-XS	1800
1CB-16-HAO	6040	SSUTWNO-16-XS	3020
1CB-20-HAO	7460	SSUTWNO-20-XS	3730
1CB-24-HAO	12320	SSUTWNO-24-XS	6160

† Super Ball Bushing* bearings are used in .500 inch size pillow blocks.