

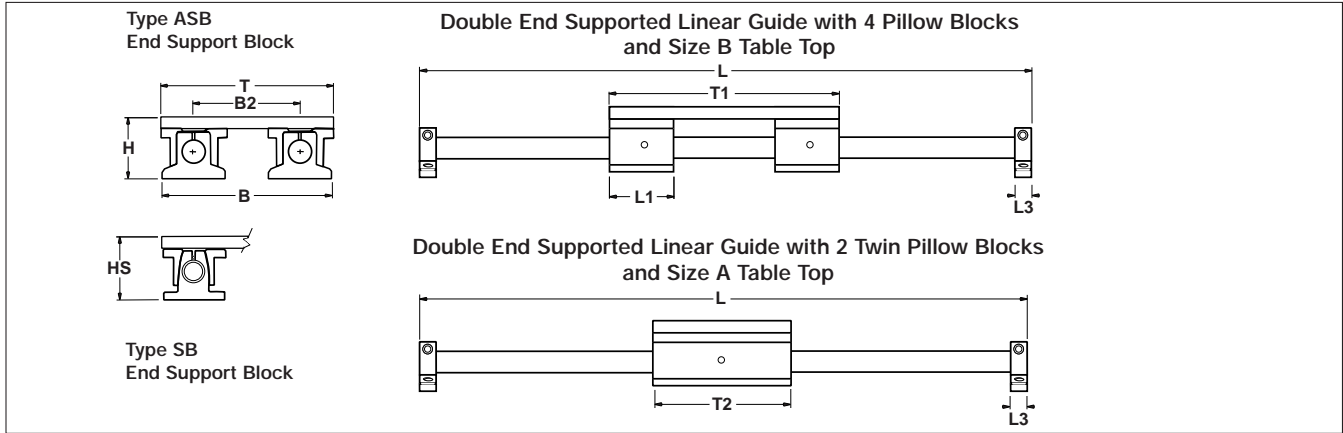
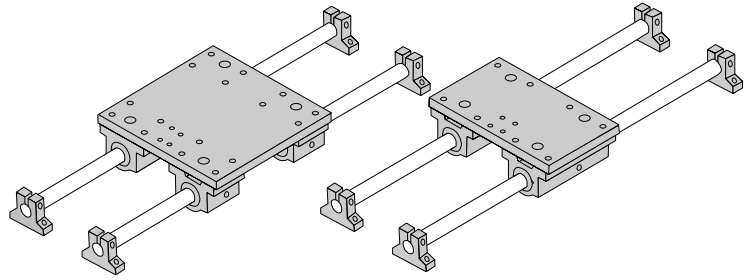
End Support 1BC

Linear Guide #9

with Table Top

*End Supported,
Industry Standard Dimension*

INCH



End Support Linear Guide 1BC with 4 Pillow Blocks and Table Top (Size B) (Dimensions in inch)

Part Number		Nom. Dia.	L1	L3	H	HS	B	B2	T	T1	Max. Stroke Length	Pillow Block	Shaft Support	
W/Type ASB Shaft Supports	W/Type SB Shaft Supports												Type ASB	Type SB
1BC-04-AHB	-	.250	1.19	.50	1.187	-	3.75	2.25	4.00	4.00	L-(5.0)	SPB-4-XS	ASB-4-XS	-
1BC-06-AHB	-	.375	1.31	.56	1.312	-	4.13	2.50	4.50	4.50	L-(5.62)	SPB-6-XS	ASB-6-XS	-
1BC-08-AHB	1BC-08-AJB	.500	1.69	.63	1.937	2.062	5.25	3.25	5.50	5.50	L-(6.76)	SSUPB-8-XS	ASB-8-XS	SB-8-XS
1BC-12-AHB	1BC-12-AJB	.750	2.06	.75	2.562	2.687	7.00	4.50	7.50	7.50	L-(9.0)	SSUPB-12-XS	ASB-12-XS	SB-12-XS
1BC-16-AHB	1BC-16-AJB	1.000	2.81	1.00	3.062	3.187	8.75	5.50	9.00	9.00	L-(11.0)	SSUPB-16-XS	ASB-16-XS	SB-16-XS
-	1BC-20-AJB	1.250	3.63	1.13	-	4.000	-	6.75	11.00	11.00	L-(13.26)	SSUPB-20-XS	-	SB-20-XS
1BC-24-AHB	1BC-24-AJB	1.500	4.00	1.25	4.500	4.500	12.75	8.00	13.00	13.00	L-(15.5)	SSUPB-24-XS	ASB-24-XS	SB-24-XS

End Support Linear Guide 1BC with 2 Twin Pillow Blocks and Table Top (Size A) (Dimensions in inch)

Part Number		Nom. Dia.	T2	L3	H	HS	B	B2	T	Max. Stroke Length	Pillow Block	Shaft Support	
W/ Type ASB Shaft Supports	W/ Type SB Shaft Supports											Type ASB	Type SB
1BC-04-BHA	-	.250	2.50	.50	1.187	-	3.75	2.25	4.00	L-(3.50)	TWN-4-XS	ASB-4-XS	-
1BC-06-BHA	-	.375	2.75	.56	1.132	-	4.13	2.50	4.50	L-(3.88)	TWN-6-XS	ASB-6-XS	-
1BC-08-BHA	1BC-08-BJA	.500	3.50	.63	1.937	2.062	5.25	3.25	5.50	L-(4.75)	SSUTWN-8-XS	ASB-8-XS	SB-8-XS
1BC-12-BHA	1BC-12-BJA	.750	4.50	.75	2.562	2.687	7.00	4.50	7.50	L-(6.00)	SSUTWN-12-XS	ASB-12-XS	SB-12-XS
1BC-16-BHA	1BC-16-BJA	1.000	6.00	1.00	3.062	3.187	8.75	5.50	9.00	L-(8.00)	SSUTWN-16-XS	ASB-16-XS	SB-16-XS
-	1BC-20-BJA	1.250	7.50	1.13	-	4.000	-	6.75	11.00	L-(9.75)	SSUTWN-20-XS	-	SB-20-XS
1BC-24-BHA	1BC-24-BJA	1.500	9.00	1.25	4.500	4.500	12.75	8.00	13.00	L-(11.50)	SSUTWN-24-XS	ASB-24-XS	SB-24-XS

Shaft Deflection Note:

Load limit may be below the dynamic load rating due to shaft deflection. Bearings can accommodate up to 1/2° deflection. See Engineering Section (pg 204) for Deflection calculations.

End Support Linear Guide

1BC Benefits:

- Includes table top with standard tapped holes for quick and easy mounting of the work piece.
- Includes Ball Screw Assembly attachment holes for ease of assembly and actuation.
- Available with 60 Case* LinearRace* shaft end support blocks in either light weight aluminum or rigid iron materials.

End Support Linear Guide

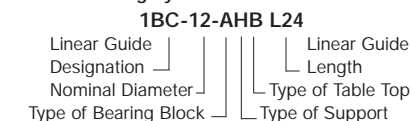
1BC Components: †

- 4 Super Smart Ball Bushing* pillow blocks or 2 Super Smart Ball Bushing twin pillow blocks.
- 2 60 Case LinearRace shafts.
- 4 Shaft End Support Blocks.
- 1 mounting table top with work piece and Ball Screw Assembly attachment holes.

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 SSUPB Super Smart Ball Bushing Pillow Block
Type SPB Super Ball Bushing Pillow Block

Type ASB LinearRace Shaft End Support Block

Mounting Table Top

Type SPB Super Ball Bushing Pillow Block
Mounting Hole Position for Sizes .250 and .375

† Sizes .250, .375 and .500 have oil lubricant fitting. Sizes, .625 and above have 1/4"-28 access for lubrication.

Type SPB and SSUPB Pillow Blocks (Dimensions in Inches)												Type TWN and SSUTWN Pillow Blocks					
Part Number	Nom. Dia.	L1	H9	H8	H5	B9	B7	J	J1	F		Wt. lb	Part Number	Nom. Dia.	L2	J3	Wt. lb
										Bolt	Hole						
SPB-4-XS	.250	1.19	.81	.437	.19	1.63	1.00	1.31	.75 ⁽²⁾	#6	.16	.10	TWN-4-XS	.250	2.50	2.00	.19
SPB-6-XS	.375	1.31	.94	.500	.19	1.75	1.12	1.44	.88 ⁽²⁾	#6	.16	.13	TWN-6-XS	.375	2.75	2.25	.25
SSUPB-8-XS	.500	1.69	1.25	.687	.25	2.00	1.38	1.69	1.00	#6	.16	.20	SSUTWN-8-XS	.500	3.50	2.50	.40
SSUPB-12-XS	.750	2.06	1.75	.937	.31	2.75	1.88	2.38	1.25	#8	.19	.62	SSUTWN-12-XS	.750	4.50	3.50	1.24
SSUPB-16-XS	1.000	2.81	2.19	1.187	.38	3.25	2.38	2.88	1.75	#10	.22	1.24	SSUTWN-16-XS	1.000	6.00	4.50	2.48
SSUPB-20-XS	1.250	3.63	2.81	1.500	.43	4.00	3.00	3.50	2.00	#10	.22	2.57	SSUTWN-20-XS	1.250	7.50	5.50	5.14
SSUPB-24-XS	1.500	4.00	3.25	1.750	.50	4.75	3.50	4.12	2.50	1/4	.28	3.94	SSUTWN-24-XS	1.500	9.00	6.50	8.08

Housing Material: Aluminum Alloy Black Anodized

⁽²⁾Two mounting holes as shown in view A-A for sizes .250 and .375

Housing Material: Aluminum Alloy Black Anodized

Anodized

Type ASB LinearRace Shaft End Support Block										Type SB LinearRace Shaft End Support Block									
Part Number	Nom. Dia.	L3	H3	H1	B	B3	G		Wt. lb	Part Number	Nom. Dia.	L3	Hh	Hc	Bb	B3	G		Wt. lb
							Bolt	Hole									Bolt	Hole	
ASB-04-XS	.250	.50	.88	.500	1.50	1.12	#6	.16	.06	SB-8-XS	.500	.63	1.62	1.000	2.00	1.50	#8	.19	.3
ASB-06-XS	.375	.56	1.00	.562	1.62	1.25	#6	.16	.08	SB-12-XS	.750	.75	2.12	1.250	2.75	2.00	#10	.22	.5
ASB-08-XS	.500	.63	1.48	.875	2.00	1.50	#8	.19	.11	SB-16-XS	1.000	1.00	2.56	1.500	3.25	2.50	1/4	.28	1.0
ASB-12-XS	.750	.75	1.95	1.125	2.50	2.00	#10	.22	.22	SB-20-XS	1.250	1.13	3.00	1.750	4.00	3.00	5/16	.34	2.0
ASB-16-XS	1.000	1.00	2.48	1.375	3.25	2.50	1/4	.28	.44	SB-24-XS	1.500	1.25	3.50	2.000	4.75	3.50	5/16	.34	2.6
ASB-24-XS	1.500	1.250	3.50	2.000	4.75	3.50	5/16	.34	1.16	Material: Iron									

End Support Material: Aluminum Alloy Black Anodized

Mounting Table Top (Dimensions in inches)															
Nominal Diameter	All Table Tops					Table Top Size B					Table Top Size A				
	T	M	J	H6	F5	T1	J1	J4	J5	N	T2	J3	J4	J5	N1
.250	4.0	2.25	1.31	.250	#8-32	4.0	.75 ⁽²⁾	.22	.22	3.50	2.50	2.00	.25	.22	2.0
.375	4.5	2.50	1.44	.250	#10-32	4.5	.88 ⁽²⁾	.22	.28	3.75	2.75	2.25	.25	.28	2.0
.500	5.5	3.25	1.69	.375	1/4-20	5.5	1.00	.34	.28	4.50	3.50	2.50	.50	.31	2.5
.750	7.5	4.50	2.38	.500	5/16-18	7.5	1.25	.41	.31	6.00	4.50	3.50	.50	.31	3.0
1.000	9.0	5.50	2.88	.500	3/8-16	9.0	1.75	.53	.31	7.00	6.00	4.50	.75	.31	4.0
1.250	11.0	6.75	3.50	.750	1/2-13	11.0	2.00	.82	.38	8.50	7.50	5.50	1.00	.38	5.0
1.500	13.0	8.00	4.12	.750	1/2-13	13.0	2.50	.75	.44	10.00	9.00	6.50	1.25	.44	6.0

Carriage Material: Aluminum Alloy Black Anodized

⁽²⁾Two mounting holes as shown in view A-A for sizes .250 and .375

[†] Super Ball Bushing* bearings are used in .250 and .375 inch size pillow blocks.