### Side Mounted 1DB Linear Guide #7 Side Mounted for Low Profile





Side Mounted	Side Mounted Linear Guide 1DB Double Side Mounted with 4 Pillow Blocks										
Part Number	Nominal Diameter	Н	В	B1	L1	Pillow Block	Shaft Support Rail Assembly				
1DB-08-JOO	.50	1.562	1.44	2.61	1.50	SPB-8-OPN-MOD	SSRA-8				
1DB-12-JOO	.75	2.062	1.94	3.55	1.88	SSUPBO-12-MOD	SSRA-12				
1DB-16-JOO	1.00	2.562	2.44	4.49	2.63	SSUPBO-16-MOD	SSRA-16				

Side Mounted	Side Mounted Linear Guide 1DB Double Side Mounted with 2 Twin Pillow Blocks										
Part Number	Nominal Diameter	Н	В	B1	L2	Maximum Stroke Length	Pillow Block	Shaft Support Rail Assembly			
1DB-08-KOO	.50	1.562	1.44	2.61	3.5	L-(3.5)	TWN-8-OPN-MOD	SSRA-8			
1DB-12-KOO	.75	2.062	1.94	3.55	4.5	L-(4.5)	SSUTWNO-12-MOD	SSRA-12			
1DB-16-KOO	1.00	2.562	2.44	4.49	6.0	L-(6.0)	SSUTWNO-16-MOD	SSRA-16			

# Side Mounted Linear Guide 1DB Benefits:

- Requires only one part number to order the entire Linear Guide.
- Continuously supported design increases rigidity and provides for unlimited system travel lengths.
- Low profile, side mounted design allows for compact machines.
- Side mounted design provides an increase in pull off load capacity.
- Allows for custom table mounting.

## Side Mounted Linear Guide 1DB Components: <sup>†</sup>

- 4 Super Smart Ball Bushing\* modified open type pillow blocks or 2 Super Smart Ball Bushing modified open type twin pillow blocks.
- 2 60 Case\* LinearRace\* shaft Side Mounted 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 SPB-OPN-MOD and SSUPBO-MOD Pillow Block							(Di	mensior	ns in Incl	hes)	Type TWN-OPN-MOD and SSUTWNO-MOD Pi			Pillow B	locks
Part	Nom.	H8	H9	Α	B9	L1	J	J1	F	Wt.	Part	Nom.	L2	J2	Wt.
Number	Dia.									lb	Number	Dia.			lb
SPB-8-OPN-MOD	.50	.687	1.44	.67	1.12	1.50	.812	1.250	#8-32	.18	TWN-8-OPN-MOD	.50	3.5	3.00	.39
SSUPBO-12-MOD	.75	.937	1.94	.92	1.56	1.88	1.187	1.562	#10-32	.45	SSUTWNO-12-MOD	.75	4.5	4.00	1.00
SSUPBO-16-MOD	1.00	1.187	2.44	1.17	2.00	2.63	1.438	2.250	1/4-20	.98	SSUTWNO-16-MOD	1.00	6.0	5.25	2.11

Housing Material: Aluminum Alloy Black Anodized

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Type SSRA Side Mounted LinearRace Shaft Support Rail Assembly (Dimensions in Inches)											Inches)	
Part	Nom.	H1	В	R	E	D	С	Х	Y <sup>(1)</sup>	(	3	Wt.
Number	Dia.									Bolt	Hole	lb/ft
SSRA-08	.50	.875	1.44	.500	1.00	.49	1.06	4	2	1/4	.28	2.05
SSRA-12	.75	1.125	1.94	.688	1.31	.75	1.44	6	3	<sup>5</sup> /16	.34	4.00
SSRA-16	1.00	1.375	2.44	.875	1.63	.88	1.81	6	3	<sup>3</sup> /8	.41	6.25
<sup>(1)</sup> Eor standard lo		1.375	2.44	.875		.88 Ionath of Linea	_	6 Support Doll is	3			

<sup>(1)</sup> For standard lengths

LinearRace Shaft Support Rail Material: Aluminum Black Anodized

#### Mounting Configurations

The following mounting configurations depict ideas for combining the Side Mounted Continuously Supported linear guides into your linear motion application. If you need further information, contact the Thomson Application Engineering Department.



\*\*Pillow blocks shown are the standard SSUPBO or SPB-OPN style. To order System 1DA with standard pillow blocks, order the Side Mounted Shaft Rail Assembly (SSRA) and the SSUPBO or SPB-OPN separately. Maximum length of LinearRace Shaft Support Rail is 72 inches. If longer continuous onepiece LinearRace Shaft Support Rails are required, contact the Thomson Linear Guides Application Engineering department.

Dynamic Load	Rating (C) Matrix	(4 million inches travel)				
Linear Guide	Dynamic Load	Pillow Block	Pillow Block			
Assembly	Rating, C (lbf)	Part No.	Dynamic Load			
Part No.	(Even Distribution)		Rating, C (lbf)			
1DB-08-JOO	480	SPB-8-OPN-MOD	120			
1DB-12-JOO	3200	SSUPBO-12-MOD	800			
1DB-16-JOO	5400	SSUPBO-16-MOD	1350			
1DB-08-KOO	480	TWN-8-OPN-MOD	240			
1DB-12-KOO	3200	SSUTWNO-12-MOD	1600			
1DB-16-KOO	5400	SSUTWNO-16-MOD	2700			

<sup>†</sup> Super Ball Bushing<sup>\*</sup> bearings are used in .500 inch size pillow blocks.