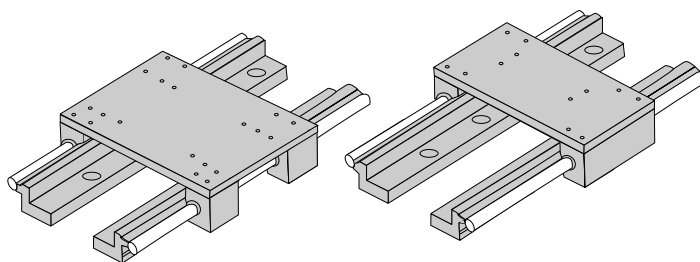


# Side Mounted 1DC Linear Guide #7

with Table Top  
*Side Mounted for  
Low Profile*



**INCH**

**Double Side Mounted Linear Guide with 4 Pillow Blocks and Size D Table Top**

**Double Side Mounted Linear Guide with 2 Twin Pillow Blocks and Size C Table Top**

**Load Rating and Limit by Direction**

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

Dynamic Load Rating  
Load value used in life calculation.

Load Limit  
Maximum allowable load applied to bearing.

**Side Mounted Linear Guide 1DC Double Side Mounted with 4 Pillow Blocks and Table Top (Size D)** (Dimensions in inches)

Part Number	Nominal Diameter	H	T	T1	B	B2	S	Maximum Stroke Length	Pillow Block	Shaft Support Rail Assembly
1DC-08-JOD	.50	2.062	7.25	5.50	4.63	5.63	1.75	L-(5.5)	SPB-8-OPN-MOD	SSRA-8
1DC-12-JOD	.75	2.562	9.75	7.50	6.13	7.50	2.25	L-(7.5)	SSUTWNO-12-MOD	SSRA-12
1DC-16-JOD	1.00	3.062	12.00	9.00	7.63	9.38	2.75	L-(9.0)	SSUTWNO-16-MOD	SSRA-16

**Side Mounted Linear Guide 1DC Double Side Mounted with 2 Twin Pillow Blocks and Table Top (Size C)** (Dimensions in inches)

Part Number	Nominal Diameter	H	T	T2	B	B2	Maximum Stroke Length	Pillow Block	Shaft Support Rail Assembly
1DC-08-KOC	.50	2.062	7.25	3.5	4.63	5.63	L-(3.5)	TWN-8-OPN-MOD	SSRA-8
1DC-12-KOC	.75	2.562	9.75	4.5	6.13	7.50	L-(4.5)	SSUTWNO-12-MOD	SSRA-12
1DC-16-KOC	1.00	3.062	12.00	6.0	7.63	9.38	L-(6.0)	SSUTWNO-16-MOD	SSRA-16

## Side Mounted Linear Guide

### 1DC 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.
- Includes table top with standard tapped holes for quick and easy mounting of the work piece.

## Side Mounted Linear Guide

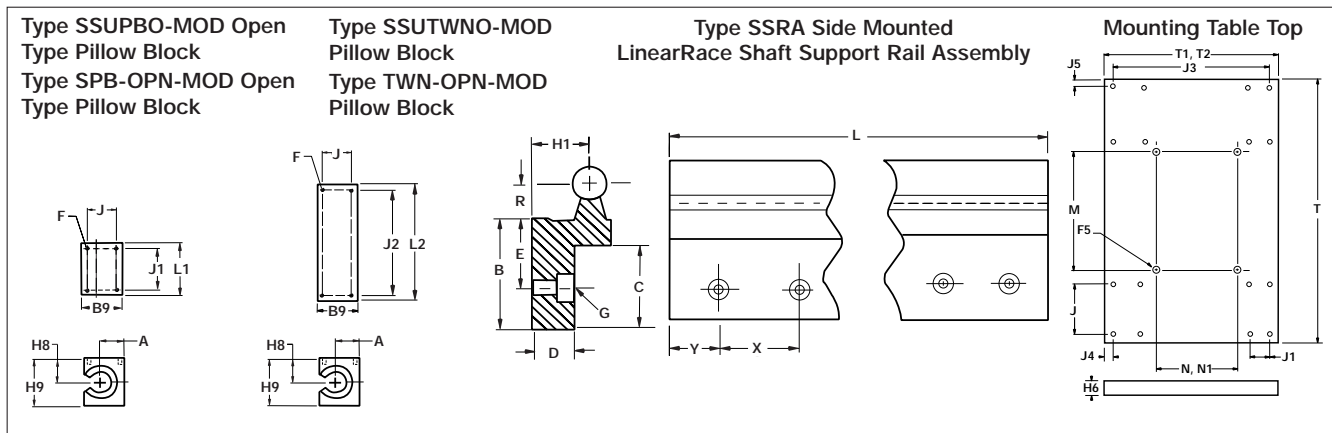
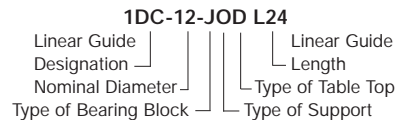
### 1DC Components:

- 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.
- 1 mounting table top with work piece 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 SPB-OPN-MOD and SSUPBO-MOD Pillow Block (Dimensions in Inches)											Type TWN-OPN-MOD and SSUTWNO-MOD Pillow Blocks				
Part Number	Nom. Dia.	H8	H9	A	B9	L1	J	J1	F	Wt. lb	Part Number	Nom. Dia.	L2	J2	Wt. lb
SPB-08-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

Type SSRA Side Mounted LinearRace Shaft Support Rail Assembly (Dimensions in Inches)											G		Wt. lb/ft
Part Number	Nom. Dia.	H1	B	R	E	D	C	X	Y <sup>(1)</sup>	Bolt	Hole		
SSRA-08	.500	.875	1.44	.500	1.00	.49	1.06	4	2	1/4	.28	2.05	
SSRA-12	.750	1.125	1.94	.688	1.31	.75	1.44	6	3	5/16	.34	4.00	
SSRA-16	1.000	1.375	2.44	.875	1.63	.88	1.81	6	3	3/8	.41	6.25	

<sup>(1)</sup> For standard lengths  
LinearRace Shaft Support Rail Material: Aluminum 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.

Mounting Table Top (Dimensions in inches)															
Nominal Diameter	All Table Tops					Table Top Size D					Table Top Size C				
	T	M	J	H6	F5	T1	J1	J4	J5	N	T2	J3	J4	J5	N1 <sup>(2)</sup>
.50	7.25	4.0	.81	.50	1/4-20	5.5	1.25	.25	.28	2.63	3.5	3.00	.25	.28	.75
.75	9.75	6.0	1.19	.50	5/16-18	7.5	1.56	.25	.38	3.50	4.5	4.00	.25	.38	1.00
1.00	12.00	6.0	1.44	.50	3/8-16	9.0	2.25	.34	.40	4.38	6.0	5.25	.38	.40	1.25

<sup>(2)</sup> Mounting hole spacing facilitates attachment of Dual Shaft Rail 2DA Linear Guide in an X-Y orientation.

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)
1DC-08-JOD	480	SPB-8-OPN-MOD	120
1DC-12-JOD	3200	SSUTWNO-12-MOD	800
1DC-16-JOD	5400	SSUTWNO-16-MOD	1350
1DC-08-KOC	480	TWN-8-OPN-MOD	240
1DC-12-KOC	3200	SSUTWNO-12-MOD	1600
1DC-16-KOC	5400	SSUTWNO-16-MOD	2700

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