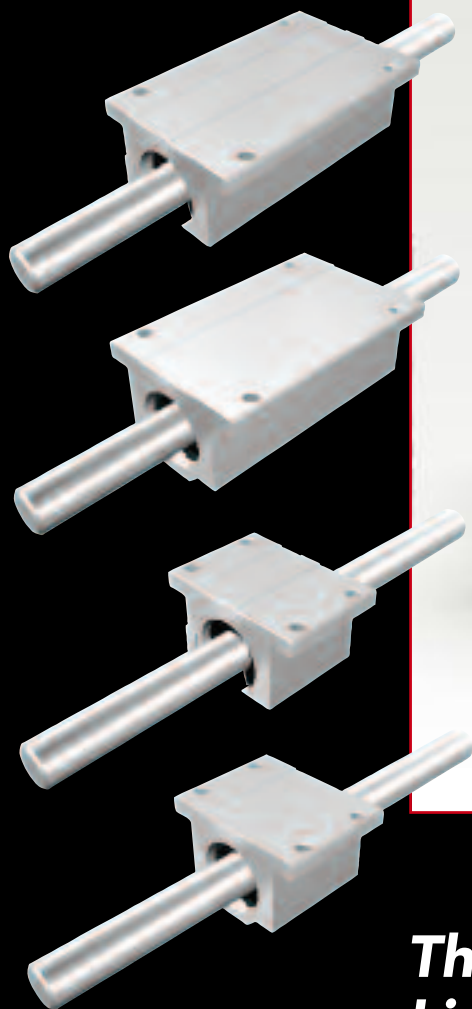


SELF-ADJUSTING TYPE

POWER LINEAR BUSH



*The Ultimate in
Linear Bushing Technology*

QUICK DELIVERY



The Mark of Linear Motion

EXCLUSIVELY FROM THK

CAT.NO.US100-1E

POWER LINEAR BUSH Series



Cost-Effective Benefits of the POWER LINEAR BUSH

Reduced Installation Time and Costs

Self-adjustment capability can compensate for inaccuracies in base machining, reducing installation time and costs.

Higher Load Capacity and Longer Service Life

Compared to the same size conventional linear bushing, the POWER LINEAR BUSH offers a higher load capacity and a longer service life.

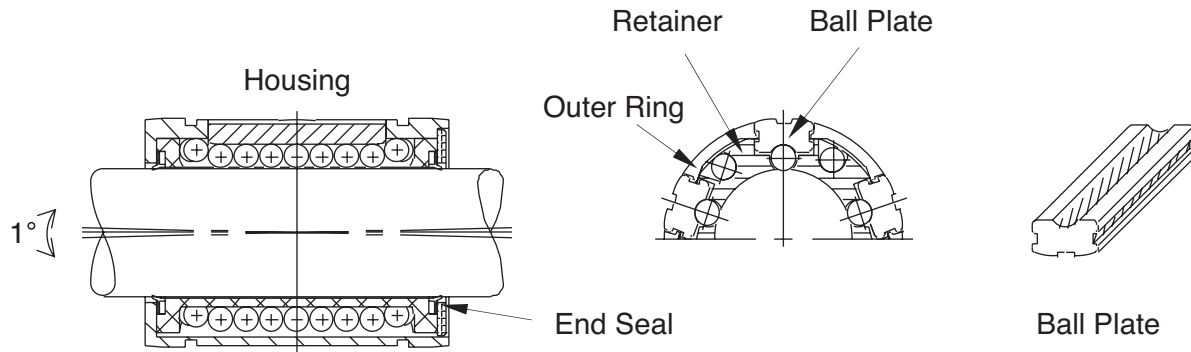
Reduction in Material Costs

The POWER LINEAR BUSH's higher load capacity enables the use of smaller components, and a reduction in material costs.

Energy-Saving Operation

The POWER LINEAR BUSH is lightweight with lower inertia and lower friction. This enables moving parts to have rapid motion with lower driving power.

Features of the POWER LINEAR BUSH



Higher Load Capacity

The uniquely designed, hardened steel ball plate features a precisely ground groove that is slightly larger than the ball. This results in an increased contact area between the balls and the ball plate, and provides load capacities 3 times higher than conventional linear bushings.

Self-Adjustment Capability

The convex shape of the ball plate provides a pivot point at the center which allows a self-adjustment capability up to $\pm 0.5^\circ$. This self-adjustment capability eliminates any possibility of edge pressure caused by inaccurate machining, errors in mounting, or shaft deflection.

Longer Service Life

Our POWER LINEAR BUSH offers three times the load rating, or 27 times the service life, of conventional linear bushings.

Smooth and Quiet Motion

The POWER LINEAR BUSH has extremely smooth and quiet motion due to a uniquely designed ball retainer and outer sleeve. They are constructed of engineering polymer, which is lightweight, low friction and highly wear-resistant.

Clearance Adjustment

The POWER LINEAR BUSH's ball plates are designed to float in the outer sleeve. This allows clearance between the balls and shaft to be adjusted according to application.

Interchangeable

The POWER LINEAR BUSH is designed to be fully interchangeable with conventional linear bushings.

Power Linear Bush Products



Model LMBS (page 8)

Standard type

Floating ball plate features offer self alignment and clearance adjustment, and light weight retainer and outer sleeve offer silent operation.



Model LMBS-OP (page 8)

Open type

One ball circuit is removed from outer sleeve to be used with bottom supported shaft for deflection free movement. This open type POWER LINEAR BUSH also has self alignment and clearance adjustment.



Model SCB (page 9)

Standard type Case Units



Model SLB (page 9)

Long type Case Units



Model SCB-OP (page 10)

Open type Case Units



Model SLB-OP (page 10)

Open-Long type Case Units



Shaft (page 11)

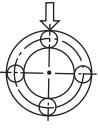


Shaft Support (pages 12-14)

Load Rating by Orientation of Load

The rated load of the POWER LINEAR BUSH varies according to the position of balls in relation to the load direction. The basic load ratings indicated in the dimensional drawing tables on page 8 indicate the value when one row of balls receiving a load are directly under the load. If the POWER LINEAR BUSH is mounted so that two rows of balls evenly receive the load in the load direction, the rated load changes as shown in Table 1.

Table 1 Load Ratings by Orientation of Load

No. of Ball Circuits	Orientation of Ball	Load Rating	Orientation of Ball	Load Rating
4		$1.41 \times C$ $1.41 \times C_o$		C C_o
5		$1.46 \times C$ $1.46 \times C_o$		C C_o
6		$1.28 \times C$ $1.28 \times C_o$		C C_o

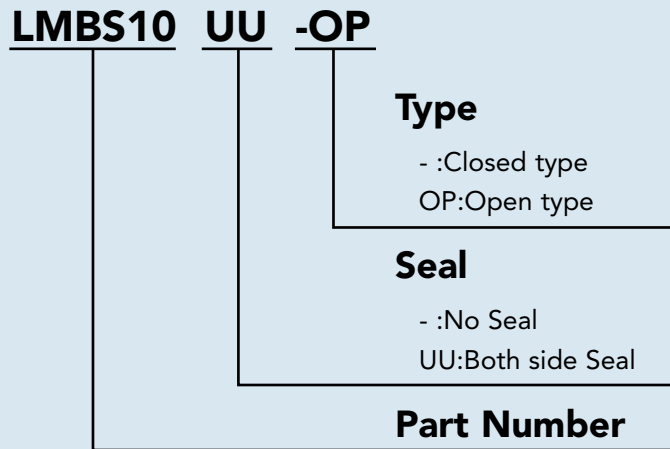
C, Co : cf. dimensions list

POWER LINEAR BUSH

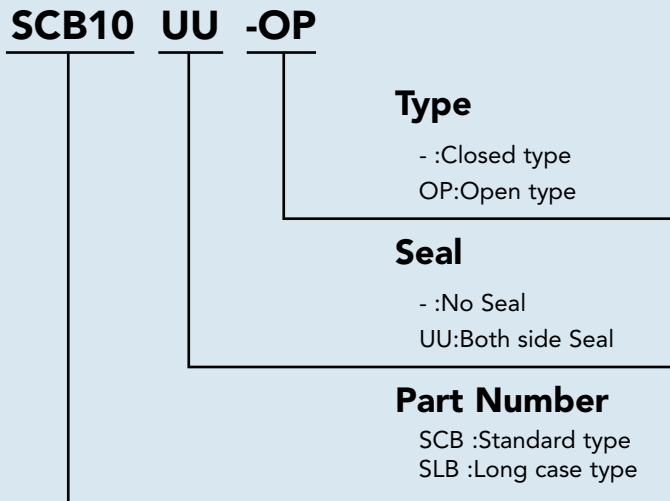
- The photo may differ slightly in appearance from the actual product.
- The appearance and specifications of the product are subject to change without notice. Contact THK before placing an order.
- Although great care has been taken in the production of this catalog, THK will not take any responsibility for damage resulting from typographical errors or omissions.
- For the export of our products or technologies and for the sale for exports, THK in principle complies with the foreign exchange law and the Foreign Exchange and Foreign Trade Control Law as well as other relevant laws. For export of THK products as single items, contact THK in advance.

Part Number Notation

Linear Bush



Case Unit



Housing and Shaft

To optimize the performance of the POWER LINEAR BUSH, high precision ground shafts and housings are required.

Housing

The POWER LINEAR BUSH requires the use of a housing. The tolerance of the housing bore will affect the life and the accuracy of the application. See Table 2.

Shaft

Because the balls in the POWER LINEAR BUSH are rolling elements running directly on the shaft surface, the hardness, the surface finish, and the tolerance of the shaft will largely affect the traveling performance of the POWER LINEAR BUSH. The shaft must have the following conditions:

- **Hardness**

The hardness must be H_RC 58 ~ 65.

A shaft hardness with less than H_RC 58 will lead to a reduction of service life and decreased permissible load.

- **Surface Finish**

The surface finish must be 8 RA or better for smooth operation.

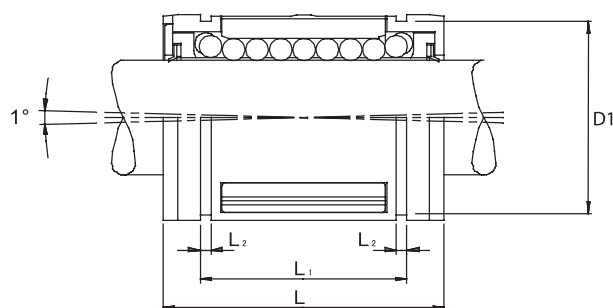
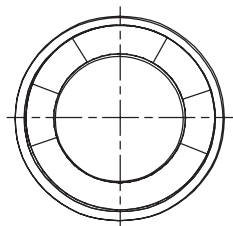
- **Tolerance**

The correct tolerance of the shaft diameter is recommended. See Table 2.

Table 2 Recommended Tolerance Between Shaft and Housing (Unit: inch)

Part number	Shaft		Housing	
	Shaft Dia.	Tolerance (g6)	Housing Bore	Tolerance (H7)
LMBS4	1/4	-0.0002 to -0.006	1/2	0 to +0.007
LMBS6	3/8	-0.0002 to -0.006	5/8	0 to +0.007
LMBS8	1/2	-0.0002 to -0.007	7/8	0 to +0.008
LMBS10	5/8	-0.0002 to -0.007	1 1/8	0 to +0.008
LMBS12	3/4	-0.0003 to -0.008	1 1/4	0 to +0.010
LMBS16	1	-0.0003 to -0.008	1 9/16	0 to +0.010
LMBS20	1 1/4	-0.0004 to -0.010	2	0 to +0.012
LMBS24	1 1/2	-0.0004 to -0.010	2 3/8	0 to +0.012
LMBS32	2	-0.0004 to -0.012	3	0 to +0.012

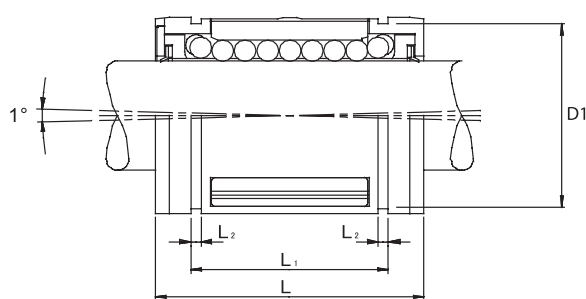
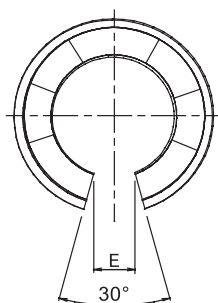
MODEL LMBS



(Unit: inch)

Nominal Shaft Dia. dr	Part number (With Seal)	No. of Ball Circuits	Housing Bore Dia. Recommended	D1	L	L1	L2	Basic Load Rating		Wgt. (lb.)
								Dynamic C (lbf.)	Static Co (lbf.)	
1/4	LMBS4(UU)	4	0.5005/0.5000	0.4685	0.750/0.735	0.511/0.501	0.039	57	49	0.01
3/8	LMBS6(UU)	4	0.6255/0.6250	0.5882	0.875/0.860	0.699/0.689	0.039	78	66	0.02
1/2	LMBS8(UU)	4	0.8755/0.8750	0.8209	1.250/1.230	1.032/1.012	0.050	210	190	0.05
5/8	LMBS10(UU)	5	1.1255/1.1250	1.0591	1.500/1.480	1.105/1.095	0.056	290	340	0.08
3/4	LMBS12(UU)	6	1.250/1.2500	1.1760	1.625/1.605	1.270/1.250	0.056	500	430	0.14
1	LMBS16(UU)	6	1.5630/1.5625	1.4689	2.250/2.230	1.884/1.864	0.070	820	780	0.29
1 1/4	LMBS20(UU)	6	2.0008/2.0000	1.8858	2.625/2.600	2.004/1.984	0.068	1240	1270	0.40
1 1/2	LMBS24(UU)	6	2.3760/2.3750	2.2390	3.000/2.970	2.410/2.390	0.086	1510	1540	0.80
2	LMBS32(UU)	6	3.0010/3.0000	2.8382	4.000/3.960	3.193/3.163	0.105	2230	2580	1.38

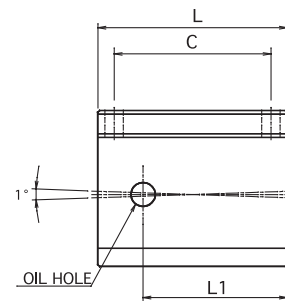
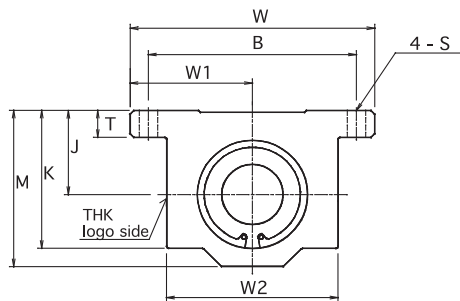
MODEL LMBS-OP



(Unit: inch)

Nominal Shaft Dia. dr	Part number (With Seal)	No. of Ball Circuits	Housing Bore Dia. Recommended	D1	L	L1	L2	E	Basic Load Rating		Wgt. (lb.)
									Dynamic C (lbf.)	Static Co (lbf.)	
1/2	LMBS8(UU)OP	3	0.8755/0.8750	0.8209	1.250/1.230	1.032/1.012	0.050	0.32	210	190	0.03
5/8	LMBS10(UU)OP	4	1.1255/1.1250	1.0591	1.500/1.480	1.105/1.095	0.056	0.38	320	340	0.06
3/4	LMBS12(UU)OP	5	1.2505/1.2500	1.1760	1.625/1.605	1.270/1.250	0.056	0.43	510	430	0.11
1	LMBS16(UU)OP	5	1.5630/1.5625	1.4689	2.250/2.230	1.884/1.864	0.070	0.56	830	780	0.21
1 1/4	LMBS20(UU)OP	5	2.0008/2.0000	1.8858	2.625/2.600	2.004/1.984	0.068	0.63	1240	1270	0.35
1 1/2	LMBS24(UU)OP	5	2.3760/2.3750	2.2390	3.000/2.970	2.410/2.390	0.086	0.75	1510	1540	0.67
2	LMBS32(UU)OP	5	3.0010/3.0000	2.8382	4.000/3.960	3.193/3.163	0.105	1.00	2230	2580	1.10

MODEL SCB



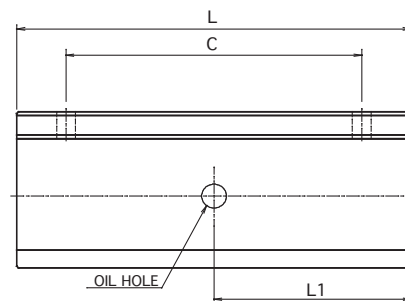
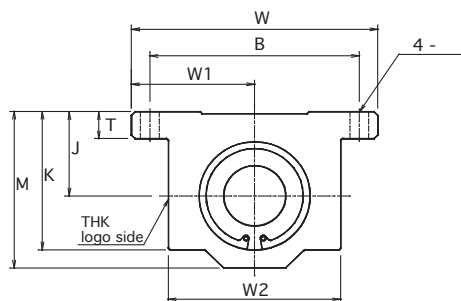
SCB4-SCB8: 3/16" thru
SCB10-SCB32: 1/4"-28

(Unit: inch)

Nominal Shaft Dia. dr	Part Number	Outer dimensions			Mounting hole			J ±0.0012	W1 ±0.0012	T	K	W2	L1	Basic Load Rating		Wgt. (lbs)
		M	W	L	B	C	S							Dynamic C (lb.f.)	Static Co (lb.f.)	
1/4	SCB4UU	0.81	1.63	1.19	1.313	0.750	0.16	0.4370	0.8125	0.19	0.75	1.00	0.80	57	49	0.089
3/8	SCB6UU	0.94	1.75	1.31	1.438	0.875	0.16	0.5000	0.8750	0.19	0.88	1.13	0.88	78	66	0.185
1/2	SCB8UU	1.25	2.00	1.69	1.688	1.000	0.16	0.6870	1.0000	0.25	1.13	1.38	1.10	210	190	0.240
5/8	SCB10UU	1.63	2.50	1.94	2.125	1.125	0.19	0.8750	1.2500	0.28	1.44	1.75	1.23	290	340	0.455
3/4	SCB12UU	1.75	2.75	2.06	2.375	1.250	0.19	0.9370	1.3750	0.31	1.56	1.88	1.35	500	430	0.550
1	SCB16UU	2.19	3.25	2.81	2.875	1.750	0.22	1.1870	1.6250	0.38	1.94	2.38	1.84	820	780	1.180
1 1/4	SCB20UU	2.81	4.00	3.63	3.500	2.000	0.22	1.5000	2.0000	0.44	2.50	3.00	2.31	1240	1270	2.350
1 1/2	SCB24UU	3.25	4.75	4.00	4.125	2.500	0.28	1.7500	2.3750	0.50	2.88	3.50	2.62	1510	1540	3.440
2	SCB32UU	4.06	6.00	5.00	5.250	3.250	0.41	2.1250	3.0000	0.63	3.63	4.50	3.35	2230	2580	6.810

Note: UU - standard stock, without seal - build to order.

MODEL SLB



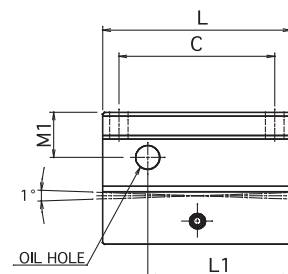
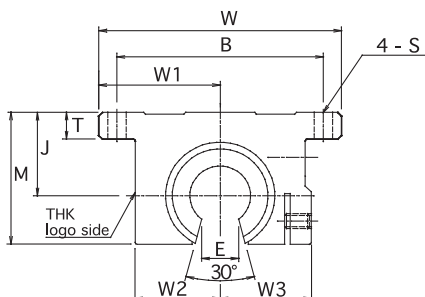
SLB4-SLB8: 3/16" thru
SLB10-SLB24: 1/4"-28

(Unit: inch)

Nominal Shaft Dia.dr	Part Number	Outer dimensions			Mounting hole			J ±0.0012	W1 ±0.0012	T	W	W2	L1	Basic Load Rating		Wgt. (lb.)
		M	W	L	B	C	S							Dynamic C (lb.f.)	Static Co (lb.f.)	
1/4	SLB4UU	0.81	1.63	2.50	1.313	2.000	0.16	0.4370	0.8125	0.19	0.75	1.00	1.25	91	98	0.185
3/8	SLB6UU	0.94	1.75	2.75	1.438	2.250	0.16	0.5000	0.8750	0.19	0.88	1.13	1.38	124	132	0.240
1/2	SLB8UU	1.25	2.00	3.50	1.688	2.500	0.16	0.6870	1.0000	0.25	1.13	1.38	1.75	303	380	0.500
5/8	SLB10UU	1.63	2.50	4.00	2.125	3.000	0.19	0.8750	1.2500	0.28	1.44	1.75	2.00	462	680	0.990
3/4	SLB12UU	1.75	2.75	4.50	2.375	3.500	0.19	0.9370	1.3750	0.31	1.56	1.88	2.25	796	860	1.180
1	SLB16UU	2.19	3.25	6.00	2.875	4.500	0.22	1.1870	1.6250	0.38	1.94	2.38	3.00	1305	1560	2.385
1 1/4	SLB20UU	2.81	4.00	7.50	3.500	5.500	0.22	1.5000	2.0000	0.44	2.50	3.00	3.75	1973	2540	4.970
1 1/2	SLB24UU	3.25	4.75	9.00	4.125	6.500	0.28	1.7500	2.3750	0.50	2.88	3.50	4.50	2403	3080	7.775

Note: UU - standard stock, without seal - build to order.

MODEL SCB-OP

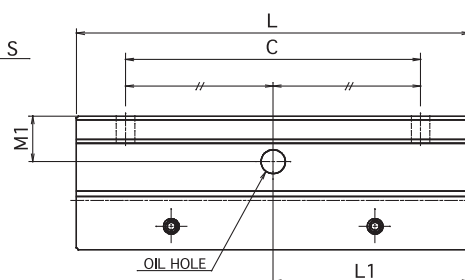
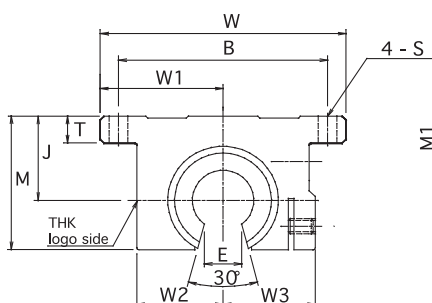


SCB8:3/16" thru
SCB10-SCB32:1/4"-28

Nominal Shaft Dia.dr	Part Number	Outer dimensions			Mounting hole			J ±0.0012	W1 ±0.0012	T	W2	W3	M1	L1	E	Basic Load Rating		Wgt. (lb.)
		M	W	L	B	C	S									Dynamic C (lbf.)	Static Co (lbf.)	
1/2	SCB8UUOP	1.100	2.00	1.50	1.688	1.000	0.16	0.6870	1.0000	0.25	0.69	0.75	0.44	0.99	0.27	210	190	0.185
5/8	SCB10UUOP	1.405	2.50	1.75	2.125	1.125	0.19	0.8750	1.2500	0.28	0.88	0.94	0.47	1.08	0.33	290	340	0.361
3/4	SCB12UUOP	1.535	2.75	1.88	2.375	1.250	0.19	0.9370	1.3750	0.31	0.94	1.00	0.51	1.15	0.39	500	430	0.450
1	SCB16UUOP	1.975	3.25	2.62	2.875	1.750	0.22	1.1870	1.6250	0.38	1.19	1.25	0.73	1.75	0.52	820	780	1.005
1 1/4	SCB20UUOP	2.485	4.00	3.38	3.500	2.000	0.22	1.5000	2.0000	0.44	1.50	1.63	0.80	2.18	0.58	1240	1270	1.975
1 1/2	SCB24UUOP	2.910	4.75	3.73	4.125	2.500	0.28	1.7500	2.3750	0.50	1.75	1.87	0.91	2.49	0.40	1510	1540	2.945
2	SCB32UUOP	3.660	6.00	4.75	5.250	3.250	0.41	2.1250	3.0000	0.63	2.25	2.44	1.10	3.16	0.96	2230	2580	5.830

Note: UU - standard stock, without seal - build to order.

MODEL SLB-OP



SLB8:3/16" thru
SLB10-SLB24:1/4"-28

Nominal Shaft Dia.dr	Part Number	Outer dimensions			Mounting hole			J ±0.0012	W1 ±0.0012	T	W2	W3	M1	L1	E	Basic Load Rating		Wgt. (lb.)
		M	W	L	B	C	S									Dynamic C (lbf.)	Static Co (lbf.)	
1/2	SLB8UUOP	1.100	2.00	3.50	1.688	2.500	0.16	0.6870	1.0000	0.25	0.69	0.75	0.44	1.75	0.27	303	380	0.390
5/8	SLB10UUOP	1.405	2.50	4.00	2.125	3.000	0.19	0.8750	1.2500	0.28	0.88	0.94	0.47	2.00	0.33	462	680	0.790
3/4	SLB12UUOP	1.535	2.75	4.50	2.375	3.500	0.19	0.9370	1.3750	0.31	0.94	1.00	0.51	2.25	0.39	796	860	0.990
1	SLB16UUOP	1.975	3.25	6.00	2.875	4.500	0.22	1.1870	1.6250	0.38	1.19	1.25	0.73	3.00	0.52	1305	1560	1.985
1 1/4	SLB20UUOP	2.485	4.00	7.50	3.500	5.500	0.22	1.5000	2.0000	0.44	1.50	1.63	0.80	3.75	0.40	1973	2540	4.190
1 1/2	SLB24UUOP	2.910	4.75	9.00	4.125	6.500	0.28	1.7500	2.3750	0.50	1.75	1.87	0.91	4.50	0.96	2403	3080	6.680

Note: UU - standard stock, without seal - build to order.

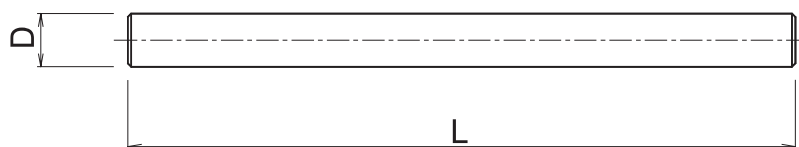
STANDARD LM SHAFT SFB

THK supplies precision LM SHAFTS for the POWER LINEAR BUSH.

Because the balls are running directly on the shaft surface, the hardness, the surface finishing, and the tolerance of the shaft should be considered. THK stocks standard dimensional LM shafts, and can supply these high-quality LM shafts with short delivery times.

Shaft Dimensions

- Material : High Carbon Alloy Steel
- Hardness : HRC 60 ~ 65
- Surface Finishing : 8 RA or better
- Straightness : 0.001"/ 0.002"per ft.



(Unit: inch)

SFB10 + 11.5L

Shaft Length (inch)

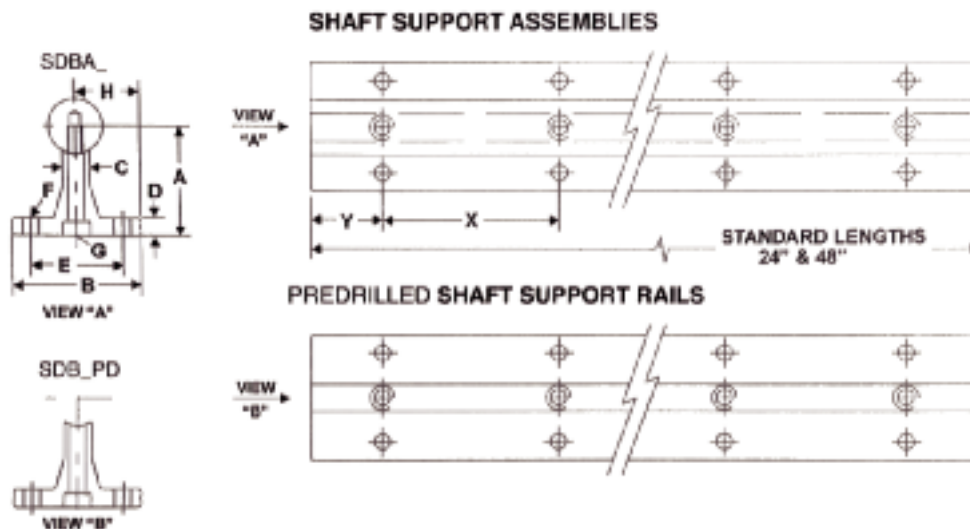
Part Number

Shaft Dia. D	Part Number	Tolerance of D	Max. Length	Case Hardened depth Minimum	Weight / inch of Length (lb.)	Combination Bush number
1/4	SFB4	0.2495/0.2490	96	0.027	0.014	LMBS4
3/8	SFB6	0.3745/0.3740	144	0.027	0.031	LMBS6
1/2	SFB8	0.4995/0.4990	168	0.040	0.056	LMBS8
5/8	SFB10	0.6245/0.6240	180	0.040	0.087	LMBS10
3/4	SFB12	0.7495/0.7490	180	0.060	0.125	LMBS12
1	SFB16	0.9995/0.9990	180	0.080	0.222	LMBS16
1 1/4	SFB20	1.2495/1.2490	180	0.080	0.347	LMBS20
1 1/2	SFB24	1.4994/1.4989	180	0.080	0.500	LMBS24
2	SFB32	1.9994/1.9987	180	0.100	0.889	LMBS32

Shaft Dia. D	Part Number	Standard stock length (inch)					Combination Bush number
1/4	SFB4	6	18	30	48	60	LMBS4
3/8	SFB6	6	18	36	48	60	LMBS6
1/2	SFB8	12	24	36	48	60	LMBS8
5/8	SFB10	12	24	36	48	60	LMBS10
3/4	SFB12	12	24	36	48	60	LMBS12
1	SFB16	18	30	42	54	72	LMBS16
1 1/4	SFB20	18	30	42	54	72	LMBS20
1 1/2	SFB24	18	30	42	54	72	LMBS24
2	SFB32	18	30	42	54	72	LMBS32

THK also supplies specially machined shafts.

POWER LINEAR BUSH SHAFT SUPPORT



(Unit: inch)

Shaft Dia.	Shaft Support Assembly	Predrilled Shaft Support Rail	*Plain Shaft Support Rail	A +/- .001	B	C	D	E +/- .005
1/2	SDBA8	SDB8PD	SDB8	1.125	1-1/2	1/4	3/16	1.000
5/8	SDBA10	SDB10PD	SDB10	1.125	1-5/8	5/16	1/4	1.125
3/4	SDBA12	SDB12PD	SDB12	1.500	1-3/4	3/8	1/4	1.250
1	SDBA16	SDB16PD	SDB16	1.750	2-1/8	1/2	1/4	1.500
1-1/4	SDBA20	SDB20PD	SDB20	2.125	2-1/2	9/16	5/16	1.875
1-1/2	SDBA24	SDB24PD	SDB24	2.500	3	11/16	3/8	2.250
2	SDBA32	SDB32PD	SDB32	3.250	3-3/4	7/8	1/2	2.750

Shaft Dia.	F Bolt	F Hole	G Screw	G Hole	H +/- .001	X	Y	WT/FT LBS
1/2	6	.169	6-32 x 7/8	.169	.750	4	2	.6
5/8	8	.193	8-32 x 7/8	.193	.812	4	2	.8
3/4	10	.221	10-32 x 7/8	.221	.875	6	3	1.0
1	1/4	.281	1/4-20 x 1-1/2	.281	1.062	6	3	1.4
1-1/4	5/16	.343	5/16-18 x 1-3/4	.343	1.250	6	3	2.1
1-1/2	5.16	.343	3/8-16 x 2	.406	1.500	8	4	2.6
2	3/8	.406	1/2-13 x 2-1/2	.531	1.875	8	4	4.2

Note:

(*) DOES NOT INCLUDE ANY HOLES IN SHAFT SUPPORT

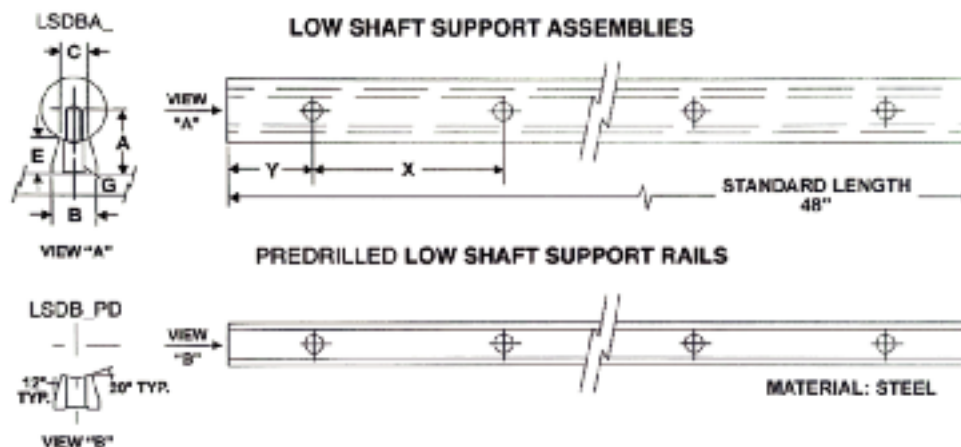
Part Number Notation

SDB8PD - 24"

Shaft Length (inch)

Part Number

POWER LINEAR BUSH SHAFT SUPPORT



(Unit: inch)

Shaft Dia.	Shaft Support Assembly	Predrilled Shaft Support Rail	*Plain Shaft Support Rail	A +/- .001	B	C
1/2	LSDBA8	LSDB8PD	LSDB8	.562	.370	1/4
5/8	LSDBA10	LSDB10PD	LSDB10	.687	.450	5/16
3/4	LSDBA12	LSDB12PD	LSDB12	.750	.510	3/8
1	LSDBA16	LSDB16PD	LSDB16	1.000	.690	1/2
1-1/4	LSDBA20	LSDB20PD	LSDB20	1.187	.780	9/16
1-1/2	LSDBA24	LSDB24PD	LSDB24	1.375	.930	11/16
2	LSDBA32	LSDB32PD	LSDB32	1.750	1.180	7/8

Shaft Dia.	E (Ref.)	G Screw	G Hole	X	Y	WT/FT LBS
1/2	.341	6-32	.169	4	2	.32
5/8	.412	8-32	.193	4	2	.49
3/4	.420	10-32	.221	6	3	.59
1	.560	1/4-20	.281	6	3	1.01
1-1/4	.626	5/16-18	.343	6	3	1.27
1-1/2	.703	3/8-16	.406	8	4	1.68
2	.845	1/2-13	.531	8	4	2.59

Note:
(*) DOES NOT INCLUDE ANY HOLES IN SHAFT SUPPORT

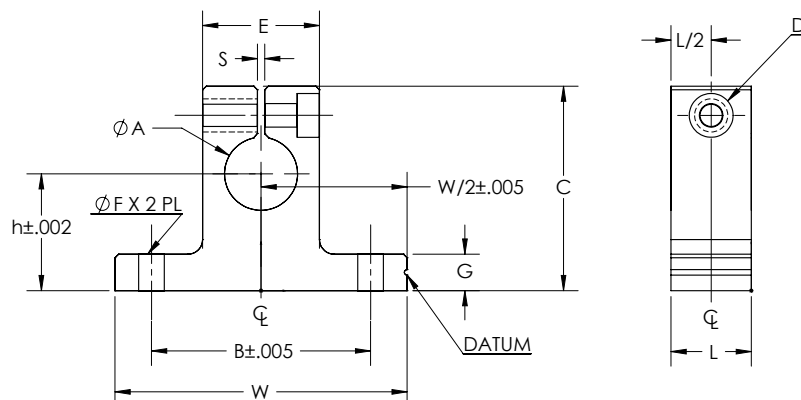
Part Number Notation

SDB8PD - 24"

Shaft Length (inch)

Part Number

POWER LINEAR BUSH SHAFT SUPPORT



(Unit: inch)

Part Number	Shaft ØA	h	W	L	C	B
SKB-4	1/4	0.6875	1-1/2	1/2	1-1/16	1.125
SKB-6	3/8	0.750	1-5/8	9/16	1-3/16	1.250
SKB-8	1/2	1.000	2	5/8	1-5/8	1.500
SKB-10	5/8	1.000	2-1/2	11/16	1-3/4	1.875
SKB-12	3/4	1.250	2-5/8	3/4	2-1/16	2.000
SKB-16	1	1.500	3-1/4	1	2-1/2	2.500
SKB-20	1-1/4	1.750	3-3/4	1-1/8	3	3.000
SKB-24	1-1/2	2.000	4-1/2	1-1/4	3-7/16	3.500
SKB-32	2	2.500	5-3/4	1-1/2	4-3/8	4.500

Part Number	E	S	G	ØF	Screw D
SKB-4	5/8	1/16	1/4	0.156	#6
SKB-6	3/4	1/16	1/4	0.156	#6
SKB-8	7/8	1/16	1/4	0.188	#8
SKB-10	1	1/16	5/16	0.218	#10
SKB-12	1-1/4	1/16	3/8	0.218	#10
SKB-16	1-1/2	1/16	3/8	0.281	1/4
SKB-20	2	1/16	7/16	0.344	5/16
SKB-24	2-1/4	1/8	1/2	0.344	5/16
SKB-32	3	1/8	5/8	0.406	3/8

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