LBCA - 12 - S

Linear Bearing Series

- **LBCA** - One Precision linear bearing (closed - all steel)
- **LBOA** - One Precision linear bearing (open - all steel)

Nominal Diameter

- **4** - 0.250 inch diameter
- **6** - 0.375 inch diameter
- **8** - 0.500 inch diameter
- **10** - 0.625 inch diameter
- **12** - 0.750 inch diameter
- **16** - 1.000 inch diameter
- **20** - 1.250 inch diameter
- **24** - 1.500 inch diameter
- **32** - 2.000 inch diameter

Wiper Seals

- - No seals
- **S** - Seals at both ends

Specifications: LBCA & LBOA Linear Bearings

Operating Temperature	0^{o} F to + 600^{o} F (without seals) 0^{o} F to + 185^{o} F (with seals)
Maximum Speed	10 ft/second
Bearing Seals (optional)	Internal Wiper Seals on both ends, Plastic Bearing Retainer
Matching Shaft	Class S (**SS** series), hardened & ground shafting (see pages 38 - 39)

Housing Tolerances

C = clearance

LBCA (closed style)

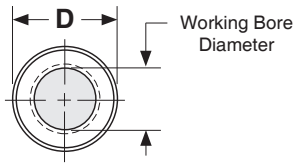
Nominal Shaft Diameter (inches)	Recommended Housing Bore: Normal Fit (inches)	Recommended Housing Bore: Press Fit (inches)	Bearing and Shaft Fit-up (inches)
0.250	.5005 / .5000	.4995 / .4990	.0015C / .0005C
0.375	.6255 / .6250	.6245 / .6240	.0015C / .0005C
0.500	.8755 / .8750	.8745 / .8740	.0015C / .0005C
0.625	1.1255 / 1.1250	1.1245 / 1.1240	.0015C / .0005C
0.750	1.2505 / 1.2500	1.2495 / 1.2490	.0015C / .0005C
1.000	1.5630 / 1.5625	1.5620 / 1.5615	.0015C / .0005C
1.250	2.0010 / 2.0000	1.9993 / 1.9983	.0015C / .0004C
1.500	2.3760 / 2.3750	2.3743 / 2.3733	.0016C / .0005C
2.000	3.0010 / 3.0000	2.9992 / 2.9982	.0020C / .0005C

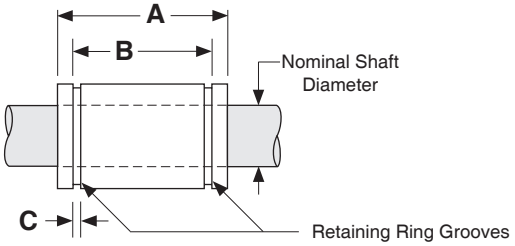
LBOA (open style)

Nominal Shaft Diameter (inches)	Recommended Housing Bore before adjustment (inches)
0.500	.8760 / .8740
0.625	1.1260 / 1.1240
0.750	1.2510 / 1.2490
1.000	1.5635 / 1.5615
1.250	2.0010 / 1.9990
1.500	2.3760 / 2.3740
2.000	3.0010 / 2.9990

Dimensions & Specifications: LBCA Precision Linear Bearing (closed)

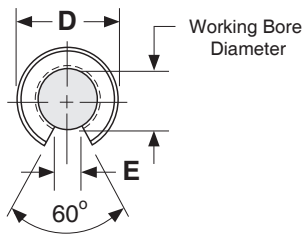
Model Number		Nominal Shaft Diameter	Working Bore Diameter	Dyn. (1) Load Capacity	Dimensions (inches)				Bearing Weight
Without Seals	With (2) Seals	(inches)	(inches)	(lbs)	A	B	C	D	(lbs)
LBCA-4	LBCA-4-S	0.250	0.2500/0.2495	19	0.750/0.735	0.515/0.499	0.039	0.5000/0.4996	0.02
LBCA-6	LBCA-6-S	0.375	0.3750/0.3745	37	0.875/0.860	0.640/0.624	0.039	0.6250/0.6246	0.06
LBCA-8	LBCA-8-S	0.500	0.5000/0.4995	85	1.250/1.235	0.967/0.951	0.046	0.8750/0.8746	0.08
LBCA-10	LBCA-10-S	0.625	0.6250/0.6245	150	1.500/1.485	1.108/1.092	0.056	1.1250/1.1246	0.16
LBCA-12	LBCA-12-S	0.750	0.7500/0.7495	200	1.625/1.610	1.170/1.154	0.056	1.2500/1.2496	0.21
LBCA-16	LBCA-16-S	1.000	1.0000/0.9995	350	2.250/2.235	1.759/1.741	0.068	1.5625/1.5621	0.38
LBCA-20	LBCA-20-S	1.250	1.2500/1.2494	520	2.625/2.605	2.009/1.991	0.068	2.0000/1.9995	1.10
LBCA-24	LBCA-24-S	1.500	1.5000/1.4994	770	3.000/2.980	2.415/2.397	0.086	2.3750/2.3745	1.43
LBCA-32	LBCA-32-S	2.000	2.0000/1.9992	1,100	4.000/3.980	3.195/3.177	0.103	3.0000/2.9994	2.75

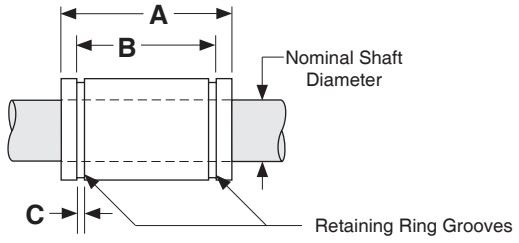




Dimensions & Specifications: LBOA Precision Linear Bearing (open)

Model Number		Nominal Shaft Diameter	Working Bore Diameter	Dyn. (1) Load Capacity	Dimensions (inches)					Bearing Weight
Without Seals	With (2) Seals	(inches)	(inches)	(lbs)	A	B	C	D	E min.	(lbs)
LBOA-8	LBOA-8-S	0.500	0.5005/0.4995	60	1.250/1.235	0.967/0.951	0.046	0.8760/0.8746	0.31	0.07
LBOA-10	LBOA-10-S	0.625	0.6255/0.6245	105	1.500/1.485	1.108/1.092	0.056	1.1260/1.1240	0.38	0.11
LBOA-12	LBOA-12-S	0.750	0.7505/0.7495	140	1.625/1.610	1.170/1.154	0.056	1.2510/1.2490	0.44	0.17
LBOA-16	LBOA-16-S	1.000	1.0005/0.9995	240	2.250/2.235	1.759/1.741	0.068	1.5635/1.5615	0.56	0.32
LBOA-20	LBOA-20-S	1.250	1.2506/1.2494	400	2.625/2.605	2.009/1.991	0.068	2.0010/1.9990	0.63	0.90
LBOA-24	LBOA-24-S	1.500	1.5006/1.4994	600	3.000/2.980	2.415/2.397	0.086	2.3760/2.3740	0.75	1.12
LBOA-32	LBOA-32-S	2.000	2.0008/1.9992	860	4.000/3.980	3.195/3.177	0.103	3.0010/2.9990	1.00	2.16





Footnotes:

(1) Rating based upon 2 million inches of travel with the load forces being applied downward on the linear bearing, while in a horizontal application, and based upon 1060 steel shafting (Rockwell 60C). The actual load rating, and life, is dependent upon factors detailed on pages 6 to 11.

(2) The bearing retainer is plastic when the internal -S seal option is selected.

LBC - 10 - S

Linear Bearing Series

- **LBC** - One Linear Bearing Closed
- **LBO** - One Linear Bearing Open

Nominal Diameter

- **4** - 0.250 inch diameter
- **6** - 0.375 inch diameter
- **8** - 0.500 inch diameter
- **10** - 0.625 inch diameter
- **12** - 0.750 inch diameter
- **16** - 1.000 inch diameter
- **20** - 1.250 inch diameter
- **24** - 1.500 inch diameter
- **32** - 2.000 inch diameter

Bearing Options

- - No seals or corrosion resistance
- **S** - Seals at both ends
- **CR** - Corrosion Resistant without seals

Specifications: LBC & LBO Linear Bearings (self-aligning)

Operating Temperature	0^{o} F to + 185^{o} F
Maximum Speed	9 ft/second
Bearing Seals	Optional Internal Wiper Seals on both ends
Matching Shaft	Class L (**SL** series), hardened & ground shafting (see pages 38 - 39)

Housing Tolerances

C = clearance
P = preload

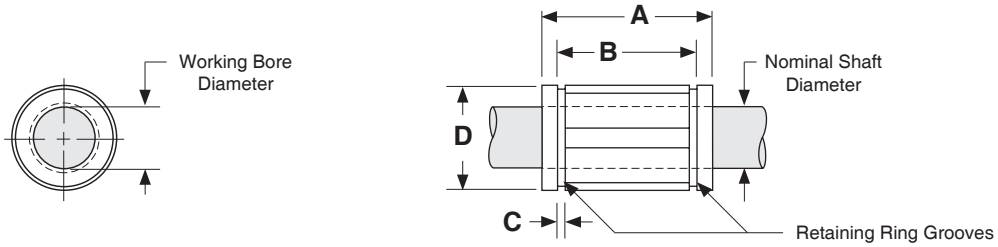
Nominal Shaft Diameter (inches)	Recommended Housing Bore		Bearing and Shaft Fit-up[1] (before adjustment)	
	Fixed Housing (inches)	Adjustable Housing (inches)	Fixed Housing (inches)	Adjustable Housing (inches)
0.250	.5005 / .5000	.5010 / .5000	.0015C / .0000	.002C / .0000
0.375	.6255 / .6250	.6260 / .6250	.0015C / .0000	.002C / .0000
0.500	.8755 / .8750	.8760 / .8750	.0015C / .0000	.002C / .0000
0.625	1.1255 / 1.1250	1.1260 / 1.1250	.0015C / .0000	.002C / .0000
0.750	1.2505 / 1.2500	1.2510 / 1.2500	.0015C / .0000	.002C / .0000
1.000	1.5630 / 1.5625	1.5635 / 1.5625	.0015C / .0000	.002C / .0000
1.250	2.0008 / 2.0000	2.0010 / 2.0000	.0018C / .0001P	.002C / .0000
1.500	2.3760 / 2.3750	2.3760 / 2.3750	.0021C / .0000	.0021C / .0000
2.000	3.0010 / 3.0000	3.0010 / 3.0000	.0023C / .0002P	.0023C / .0002P

Footnotes:

(1) Adjustable Housing Diameter (before adjustment) for LBO-20 is .002C/.0001P.

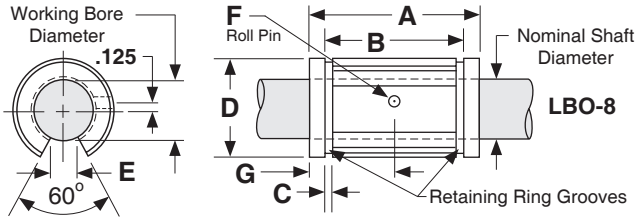
Dimensions & Specifications: LBC Linear Bearing (closed)

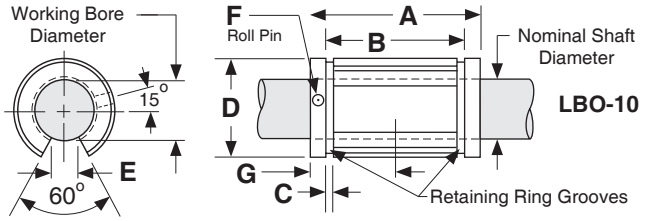
Model Number		Nominal Shaft Diameter	Dyn. (1) Load Capacity	Working Bore Diameter	Housing (2) Bore D	Dimensions (inches)			Bearing Weight
Without Seals	With Seals	(inches)	(lbs)	(inches)	(inches)	A	B	C	(lbs)
LBC-4	LBC-4-S	0.250	60	0.2500/0.2495	0.5005/0.5000	0.750/0.735	0.511/0.501	0.039	0.01
LBC-6	LBC-6-S	0.375	105	0.3750/0.3745	0.6255/0.6250	0.875/0.860	0.699/0.689	0.039	0.02
LBC-8	LBC-8-S	0.500	265	0.5000/0.4995	0.8755/0.8750	1.250/1.230	1.032/1.012	0.050	0.04
LBC-10	LBC-10-S	0.625	450	0.6250/0.6245	1.1255/1.1250	1.500/1.480	1.105/1.095	0.056	0.10
LBC-12	LBC-12-S	0.750	640	0.7500/0.7495	1.2505/1.2500	1.625/1.605	1.270/1.250	0.056	0.14
LBC-16	LBC-16-S	1.000	1,050	1.0000/0.9995	1.5630/1.5625	2.250/2.230	1.884/1.864	0.068	0.25
LBC-20	LBC-20-S	1.250	1,550	1.2500/1.2494	2.0008/2.0000	2.625/2.600	2.004/1.984	0.068	0.45
LBC-24	LBC-24-S	1.500	2,000	1.5000/1.4994	2.3760/2.3750	3.000/2.970	2.410/2.390	0.086	0.85
LBC-32	LBC-32-S	2.000	3,000	2.0000/1.9992	3.0010/3.0000	4.000/3.960	3.206/3.176	0.105	1.45

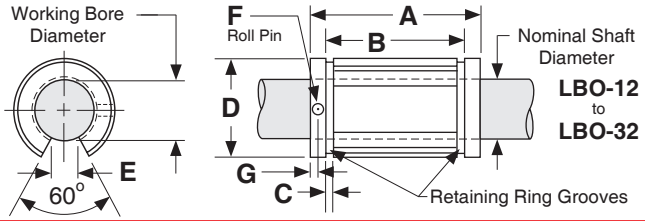


Dimensions & Specifications: LBO Linear Bearing (open)

Model Number		Nominal Shaft Diameter	Dyn.(1) Load Cap.	Working Bore Diameter	Housing (2) Bore D	Dimensions (inches)				Retention Hole		Bearing Weight
Without Seals	With Seals	(inches)	(lbs)	(inches)	(inches)	A	B	C	E min.	F dia.	G (in)	(lbs)
LBO-8	LBO-8-S	0.500	230	0.5000/0.4995	0.8755/0.8750	1.250/1.230	1.032/1.012	0.050	0.312	.14	.63	0.04
LBO-10	LBO-10-S	0.625	320	0.6250/0.6245	1.1255/1.1250	1.500/1.480	1.105/1.095	0.056	0.375	.11	.13	0.08
LBO-12	LBO-12-S	0.750	470	0.7500/0.7495	1.2505/1.2500	1.625/1.605	1.270/1.250	0.056	0.437	.14	.13	0.12
LBO-16	LBO-16-S	1.000	780	1.0000/0.9995	1.5630/1.5625	2.250/2.230	1.884/1.864	0.068	0.562	.14	.13	0.21
LBO-20	LBO-20-S	1.250	1,170	1.2500/1.2494	2.0008/2.0000	2.625/2.600	2.004/1.984	0.068	0.625	.20	.19	0.38
LBO-24	LBO-24-S	1.500	1,560	1.5000/1.4994	2.3760/2.3750	3.000/2.970	2.410/2.390	0.086	0.750	.20	.19	0.71
LBO-32	LBO-32-S	2.000	2,350	2.0000/1.9992	3.0010/3.0000	4.000/3.960	3.206/3.176	0.103	1.105	.27	.31	1.20







Footnotes:

(1) Rating based upon 2 million inches of travel with the load forces being applied downward on the linear bearing, while in a horizontal application, and based upon 1060 steel shafting (Rockwell 60C). The actual load rating, and life, is dependent upon factors detailed on pages 6 to 11.

(2) This specification is based upon the bearing being on the shaft. Refer to page 38 for additional details.

LBCM - 16 - S

Linear Bearing Closed Metric

LBCM - Asian Style Super Metric Bearing Closed
LBOM - Asian Style Super Metric Bearing Open

Nominal Diameter

16 - 16 mm diameter
20 - 20 mm diameter
25 - 25 mm diameter
30 - 30 mm diameter
40 - 40 mm diameter

Bearing Options

- No seals
S - Seals at both ends

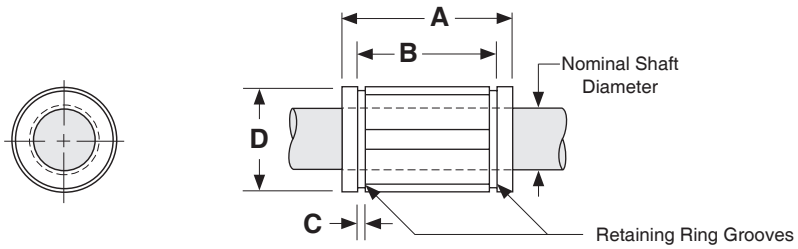
Specifications: LBCM & LBOM Linear Bearings Metric (self-aligning)

Operating Temperature	-17.8° C to + 85° C
Maximum Speed	2,74 meters/second
Matching Shaft	Metric (**SM** series), hardened & ground shafting (see pages 40 - 41)
Housing Tolerances	

Nominal Shaft Diameter (mm)	Recommended Housing Bore D (mm)
16	28,10 / 28,03
20	32,10 / 32,05
25	40,10 / 40,05
30	45,15 / 45,05
40	60,15 / 60,05

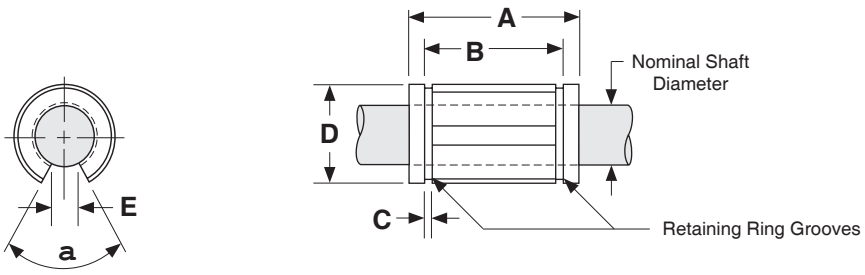
Dimensions & Specifications: LBCM Linear Bearing Closed Metric (Asian Style)

Model Number		Nominal Shaft Diameter	Dynamic (1) Load Capacity		Housing (2) Bore D	Dimensions (mm)			No. of Ball Tracks	Bearing Weight
Without Seals	With Seals	(mm)	N	(Kgf)	(mm)	A	B	C		(kg)
LBCM-16	LBCM-16-S	16	1225	(119,9)	28	37	26,5	1,60	5	0,034
LBCM-20	LBCM-20-S	20	2303	(239,8)	32	42	30,5	1,60	6	0,058
LBCM-25	LBCM-25-S	25	4312	(459,6)	40	59	41,0	1,85	6	0,120
LBCM-30	LBCM-30-S	30	4802	(569,6)	45	64	44,5	1,85	6	0,148
LBCM-40	LBCM-40-S	40	9310	(949,3)	60	80	60,5	2,10	6	0,314



Dimensions & Specifications: LBOM Linear Bearing Open Metric (Asian Style)

Model Number		Nominal Shaft Diameter	Dynamic (1) Load Capacity		Housing (2) Bore D	Dimensions (mm)				Angle	No. of Ball Tracks	Bearing Weight
Without Seals	With Seals	(mm)	N	(Kgf)	(mm)	A	B	C	E min.	a		(kg)
LBOM-16	LBOM-16-S	16	1372	(139,9)	28	37	26,5	1,60	11,0	60^0	4	0,026
LBOM-20	LBOM-20-S	20	2332	(237,8)	32	42	30,5	1,60	11,0	60^0	5	0,048
LBOM-25	LBOM-25-S	25	4351	(443,7)	40	59	41,0	1,85	12,5	60^0	5	0,100
LBOM-30	LBOM-30-S	30	4851	(494,7)	45	64	44,5	1,85	15,0	60^0	5	0,122
LBOM-40	LBOM-40-S	40	9408	(959,3)	60	80	60,5	2,15	20,0	60^0	5	0,260



Footnotes:

(1) Rating based upon 50 km of travel with the load forces being applied downward on the linear bearing, while in a horizontal application, and based upon 1060 steel shafting (Rockwell 60C).

(2) This specification is based upon the bearing being on the shaft.

LBCME - 16 - S

Linear Bearing Closed Metric

LBCME - European ISO Super Metric Bearing Closed
LBOME - European ISO Super Metric Bearing Open

Nominal Diameter

16 - 16 mm diameter
20 - 20 mm diameter
25 - 25 mm diameter
30 - 30 mm diameter
40 - 40 mm diameter
50 - 50 mm diameter

Bearing Options

- No seals
S - Seals at both ends

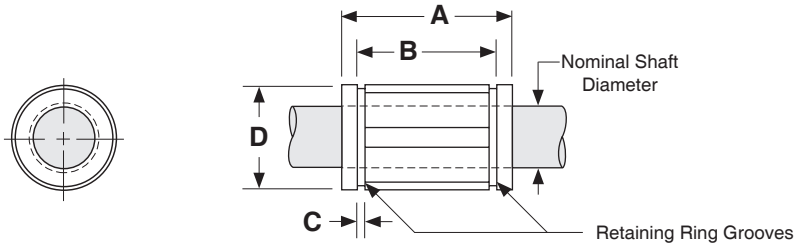
Specifications: LBCME & LBOME Linear Bearings Metric (self-aligning)

Operating Temperature	-17.8° C to + 85° C
Maximum Speed	2,74 meters/second
Matching Shaft	Metric (**SM** series), hardened & ground shafting (see pages 40 - 41)
Housing Tolerances	

Nominal Shaft Diameter (mm)	Recommended Housing Bore D (mm)
16	26,10 / 26,03
20	32,10 / 32,05
25	40,10 / 40,05
30	47,15 / 47,05
40	62,15 / 62,05
50	75,20 / 75,02

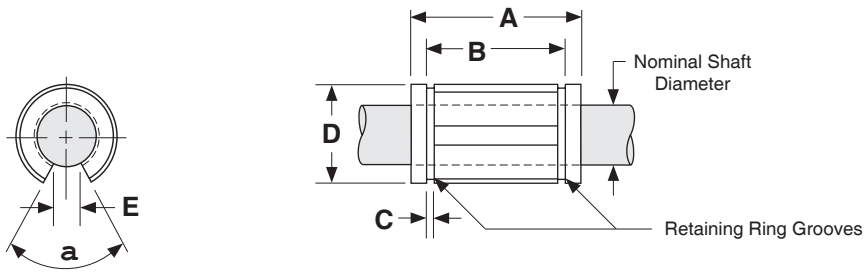
Dimensions & Specifications: LBCME Linear Bearing Closed Metric (European Style)

Model Number		Nominal Shaft Diameter	Dynamic[1] Load Capacity	Housing[2] Bore D	Dimensions (mm)			No. of Ball Tracks	Bearing Weight
Without Seals	With Seals	(mm)	N (Kgf)	(mm)	A	B	C		(kg)
LBCME-16	LBCME-16-S	16	1176 (119,9)	26	36	24,6	1,30	5	0,026
LBCME-20	LBCME-20-S	20	2352 (239,8)	32	45	31,2	1,60	6	0,060
LBCME-25	LBCME-25-S	25	4508 (459,6)	40	58	43,7	1,85	6	0,120
LBCME-30	LBCME-30-S	30	5586 (569,6)	47	68	51,7	1,85	6	0,184
LBCME-40	LBCME-40-S	40	9310 (949,3)	62	80	60,3	2,15	6	0,342
LBCME-50	LBCME-50-S	50	13720 (1399,0)	75	100	77,3	2,65	6	0,586



Dimensions & Specifications: LBOME Linear Bearing Open Metric (European Style)

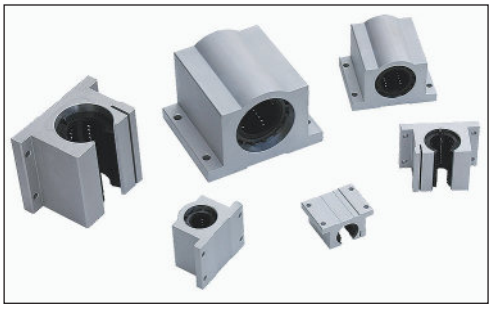
Model Number		Nominal Shaft Diameter	Dynamic[1] Load Capacity	Housing[2] Bore D	Dimensions (mm)				Angle	No. of Ball Tracks	Bearing Weight
Without Seals	With Seals	(mm)	N (Kgf)	(mm)	A	B	C	E min.	a		(kg)
LBOME-16	LBOME-16-S	16	1332 (135,8)	26	36	24,6	1,30	9,0	68^0	4	0,020
LBOME-20	LBOME-20-S	20	2371 (241,8)	32	45	31,2	1,60	9,0	55^0	5	0,050
LBOME-25	LBOME-25-S	25	4557 (464,7)	40	58	43,7	1,85	11,5	57^0	5	0,100
LBOME-30	LBOME-30-S	30	5644 (575,5)	47	68	51,7	1,85	14,0	57^0	5	0,154
LBOME-40	LBOME-40-S	40	9398 (958,3)	62	80	60,3	2,15	19,5	56^0	5	0,286
LBOME-50	LBOME-50-S	50	13857 (1413,0)	75	100	77,3	2,65	22,5	54^0	5	0,486



Footnotes:

(1) Rating based upon 50 km of travel with the load forces being applied downward on the linear bearing, while in a horizontal application, and based upon 1060 steel shafting (Rockwell 60C).

(2) This specification is based upon the bearing being on the shaft.



SLBC - 10 - CR - L

Pillow Block Series

- **SLBC** - One LBC bearing per pillow block
- **DLBC** - Two LBC bearings per pillow block
- **SLBO** - One LBO bearing per pillow block
- **DLBO** - Two LBO bearings per pillow block

Nominal Diameter

- **8** - 0.500 inch diameter
- **10** - 0.625 inch diameter
- **12** - 0.750 inch diameter
- **16** - 1.000 inch diameter
- **20** - 1.250 inch diameter
- **24** - 1.500 inch diameter
- **32** - 2.000 inch diameter (only in SLBC & SLBO style)

Bearing Options

- - Standard
- **CR** - Corrosion resistant

Bearing Lock

- - None
- **L** - Hand wheel lock

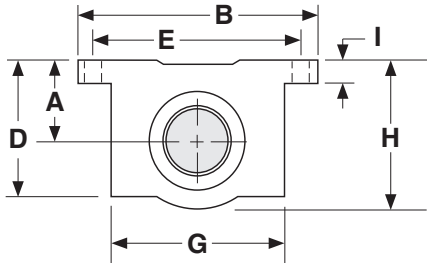
Specifications: SLBC, SLBO, DLBC & DLBO Pillow Blocks (self-aligning)

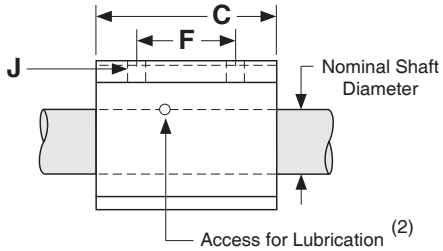
Bearing Housing Type & Finish	Aluminum 6061-T6 Pillow Block, Clear Anodized
Bearing Seals	Internal Wiper Seals on Both Ends
Operating Temperature	0^{o} F to + 185^{o} F
Maximum Speed	9 ft/second
Matching Shaft	Class L (**SL** series), hardened & ground shafting (see pages 38 - 39)
Diameter Tolerance	

Nominal Shaft Diameter (inches)	Shaft Diameter Tolerance (inches)
0.500	.4995 / .4990
0.625	.6245 / .6240
0.750	.7495 / .7490
1.000	.9995 / .9990
1.250	1.2495 / 1.2490
1.500	1.4994 / 1.4989
2.000	1.9994 / 1.9987

Dimensions & Specifications: SLBC Single Linear Bearing Closed Pillow Block (self-aligning)

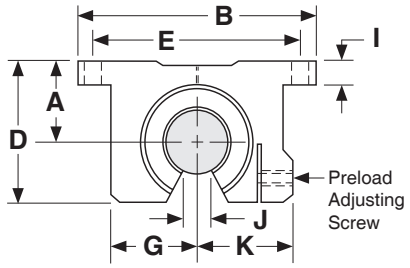
Model Number	Nominal Shaft Diameter (inches)	Dyn.(1) Load Capacity (lbs)	Dimensions (inches)											Block Weight (lbs)
			A +/- .003	B	C	D	E +/- .010	F +/- .010	G	H	I	J hole	J bolt	
SLBC-8	0.500	265	0.687	2.00	1.69	1.13	1.688	1.000	1.38	1.25	.25	.16	# 6	0.20
SLBC-10	0.625	450	0.875	2.50	1.94	1.44	2.125	1.125	1.75	1.63	.28	.19	# 8	0.50
SLBC-12	0.750	640	0.937	2.75	2.06	1.56	2.375	1.250	1.88	1.75	.31	.19	# 8	0.60
SLBC-16	1.000	1,050	1.187	3.25	2.81	1.94	2.875	1.750	2.38	2.19	.38	.22	#10	1.20
SLBC-20	1.250	1,550	1.500	4.00	3.63	2.50	3.500	2.000	3.00	2.81	.44	.22	#10	2.50
SLBC-24	1.500	2,000	1.750	4.75	4.00	2.88	4.125	2.500	3.50	3.25	.50	.28	1/4	3.80
SLBC-32	2.000	3,000	2.125	6.00	5.00	3.63	5.250	3.250	4.50	4.06	.63	.41	3/8	7.00

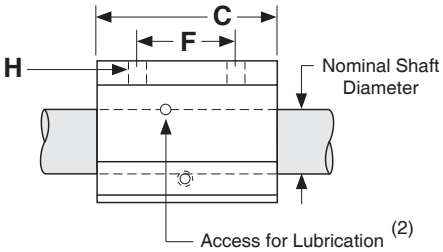




Dimensions & Specifications: SLBO Single Linear Bearing Open Pillow Block (self-aligning)

Model Number	Nominal Shaft Diameter (inches)	Dyn.(1) Load Capacity (lbs)	Dimensions (inches)												Block Weight (lbs)
			A +/- .003	B	C	D	E +/- .010	F +/- .010	G	H hole	H bolt	I	J min.	K	
SLBO-8	0.500	230	0.687	2.00	1.50	1.13	1.688	1.000	0.69	.16	# 6	.25	0.31	0.75	0.20
SLBO-10	0.625	320	0.875	2.50	1.75	1.44	2.125	1.125	0.88	.19	# 8	.28	0.37	0.94	0.40
SLBO-12	0.750	470	0.937	2.75	1.88	1.56	2.375	1.250	0.94	.19	# 8	.31	0.43	1.00	0.50
SLBO-16	1.000	780	1.187	3.25	2.63	2.00	2.875	1.750	1.19	.22	#10	.38	0.56	1.25	1.00
SLBO-20	1.250	1,170	1.500	4.00	3.38	2.56	3.500	2.000	1.50	.22	#10	.44	0.62	1.63	2.10
SLBO-24	1.500	1,560	1.750	4.75	3.75	2.94	4.125	2.500	1.75	.28	1/4	.50	0.75	1.88	3.20
SLBO-32	2.000	2,350	2.125	6.00	4.75	3.63	5.250	3.250	2.25	.41	3/8	.63	1.00	2.44	6.00





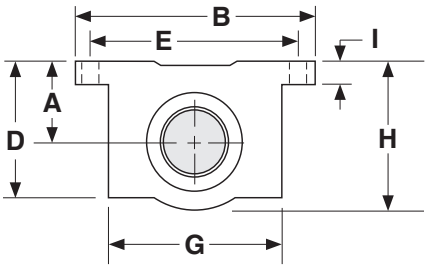
Footnotes:

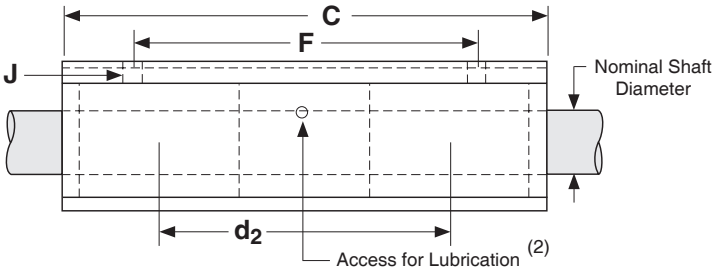
(1) Rating based upon 2 million inches of travel with the load forces being applied downward on the linear bearing, while in a horizontal application, and based upon 1060 steel shafting (Rockwell 60C). The actual load rating, and life, is dependent upon factors detailed on pages 6 to 11.

(2) Size 0.500 has oil lubricant fitting. Sizes 0.625 and above have a $^{1}/_{4}$-28 UNF straight thread access for lubrication.

Dimensions & Specifications: DLBC Double Linear Bearing Closed Pillow Block (self-aligning)

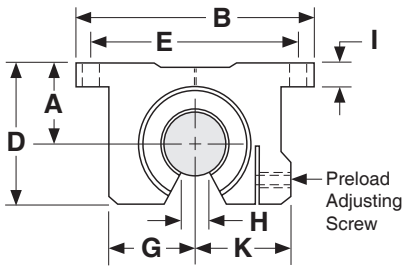
Model Number	Nominal Shaft Diameter (inches)	Dyn.(1) Load Capacity (lbs)	Dimensions (inches)												Block Weight (lbs)
			A +/- .003	B	C	D	E +/- .010	F +/- .010	G	H	I	J hole	J bolt	d_2(3)	
DLBC-8	0.500	530	0.687	2.00	3.50	1.13	1.688	2.500	1.38	1.25	.25	.16	# 6	1.75	0.40
DLBC-10	0.625	900	0.875	2.50	4.00	1.44	2.125	3.000	1.75	1.63	.28	.19	# 8	2.00	1.00
DLBC-12	0.750	1,280	0.937	2.75	4.50	1.56	2.375	3.500	1.88	1.75	.31	.19	# 8	2.25	1.20
DLBC-16	1.000	2,100	1.187	3.25	6.00	1.94	2.875	4.500	2.38	2.19	.38	.22	#10	3.00	2.40
DLBC-20	1.250	3,100	1.500	4.00	7.50	2.50	3.500	5.500	3.00	2.81	.44	.22	#10	3.75	5.00
DLBC-24	1.500	4,000	1.750	4.75	9.00	2.88	4.125	6.500	3.50	3.25	.50	.28	1/4	4.50	7.80
DLBC-32	2.000	6,000	2.125	6.00	10.00	3.63	5.250	8.250	4.50	4.06	.63	.41	3/8	5.75	14.50

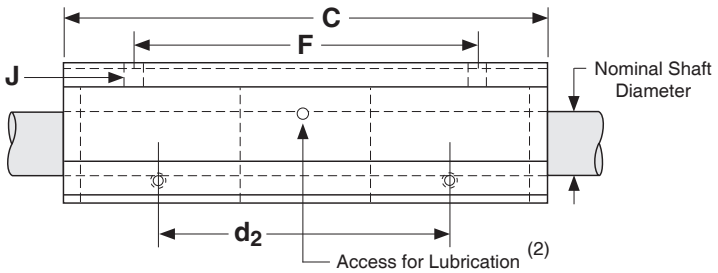




Dimensions & Specifications: DLBO Double Linear Bearing Pillow Block Open (self-aligning)

Model Number	Nominal Shaft Diameter (inches)	Dyn.(1) Load Capacity (lbs)	Dimensions (inches)													Block Weight (lbs)
			A +/- .003	B	C	D	E +/- .010	F +/- .010	G	H min.	I	J hole	J bolt	K	d_2(3)	
DLBO-8	0.500	460	0.687	2.00	3.50	1.13	1.688	2.500	0.69	.31	.25	.16	# 6	0.75	1.75	0.40
DLBO-10	0.625	640	0.875	2.50	4.00	1.44	2.125	3.000	0.88	.37	.28	.19	# 8	0.94	2.00	0.80
DLBO-12	0.750	940	0.937	2.75	4.50	1.56	2.375	3.500	0.94	.43	.31	.19	# 8	1.00	2.25	1.00
DLBO-16	1.000	1,560	1.187	3.25	6.00	2.00	2.875	4.500	1.19	.56	.38	.22	#10	1.25	3.00	2.00
DLBO-20	1.250	2,340	1.500	4.00	7.50	2.56	3.500	5.500	1.50	.62	.44	.22	#10	1.63	3.75	4.20
DLBO-24	1.500	3,120	1.750	4.75	9.00	2.94	4.125	6.500	1.75	.75	.50	.28	1/4	1.88	4.50	6.70
DLBO-32	2.000	4,700	2.125	6.00	10.00	3.63	5.250	8.250	2.25	1.00	.63	.41	3/8	2.44	5.75	12.75





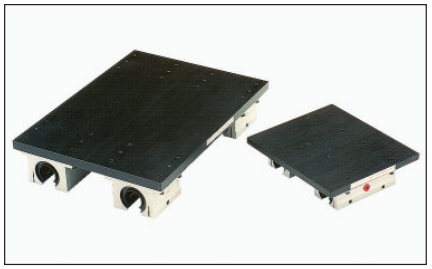
Footnotes:

(1) Rating based upon 2 million inches of travel with the load forces being applied downward on the linear bearing, while in a horizontal application, and based upon 1060 steel shafting (Rockwell 60C). The actual load rating, and life, is dependent upon factors detailed on pages 6 to 11.

(2) Size 0.500 has oil lubricant fitting. Sizes 0.625 and above have a $^1/_4$-28 UNF straight thread access for lubrication.

(3) This value is the center to center distance (spacing) of the bearings on a single shaft (d_2).

TRCA 12 - 12 - CR - P - L1



***TWIN RAIL*® Carriage Assembly series**

TRCA - Plate with mounted SLBO or DLBO

Nominal Bearing Diameter

8 - 0.500 inch diameter
10 - 0.625 inch diameter
12 - 0.750 inch diameter
16 - 1.000 inch diameter
20 - 1.250 inch diameter
24 - 1.500 inch diameter
32 - 2.000 inch diameter

Carriage Plate Length

6 - 6 inches
8 - 8 inches
12 - 12 inches
18 - 18 inches
24 - 24 inches
30 - 30 inches

Bearing Options

- Standard
CR - Corrosion resistant

Carriage Plate Mounting

- No Holes
P - Pre-Machined Mounting holes

Bearing Lock

- None
Lx - Hand wheel locks (x = number of locks - 1, 2, 3 or 4)

Specifications: TRCA *TWIN RAIL*® Carriage Assembly

Bearing Housing Type & Finish	Aluminum 6061-T6 Pillow Block, Clear Anodized
Bearing Seals	Internal Wiper Seals on Both Ends
Carriage Plate Type & Finish	Machined Aluminum 6061-T6 Plate, Black Anodized
Bearing Alignment on Plate	+/- 0.001", Pillow Blocks Doweled to Carriage Plate
Operating Temperature	0^{o} F to + 185^{o} F
Maximum Speed	9 ft/second
Matching Shaft Assembly	**TRSA** series (see page 47)
Diameter Tolerance	

Nominal Shaft Diameter (inches)	Shaft Diameter Tolerance (inches)
0.500	.4995 / .4990
0.625	.6245 / .6240
0.750	.7495 / .7490
1.000	.9995 / .9990
1.250	1.2495 / 1.2490
1.500	1.4994 / 1.4989
2.000	1.9994 / 1.9987

Dimensions & Specifications: TRCA *TWIN RAIL*® Carriage Assembly

Model Number	Nom. Shaft Dia. (inches)	Dyn.(1) Load Cap. (lbs)	Dimensions (inches)													Assembly Weight (lbs)
			A +/- .005	B +/- .005	C	D	E	F	G	H	J	K	d_r(2)	d_1(3)	d_2(4)	
TRCA8-6	0.500	920	6.00	5.50	1.25	0.75	0.68	1.12	2.00	.25	3.50	0.375	1.062	3.00	1.90	2.4
TRCA8-12	0.500	920	12.00	5.50	0.25	0.75	0.68	1.12	2.00	.25	11.50	0.375	1.062	3.00	10.00	4.6
TRCA8-18	0.500	920	18.00	5.50	0.25	0.75	0.68	1.12	2.00	.25	17.50	0.375	1.062	3.00	16.00	5.9
TRCA10-6	0.625	1,280	6.00	6.75	1.00	0.93	0.87	1.43	2.50	.25	4.00	0.375	1.250	3.75	2.15	3.5
TRCA10-12	0.625	1,280	12.00	6.75	0.25	0.93	0.87	1.43	2.50	.25	11.50	0.375	1.250	3.75	9.75	6.0
TRCA10-18	0.625	1,280	18.00	6.75	0.25	0.93	0.87	1.43	2.50	.25	17.50	0.375	1.250	3.75	15.75	7.7
TRCA12-6	0.750	1,880	6.00	7.75	0.75	1.00	0.93	1.56	2.75	.25	4.50	0.500	1.437	4.50	2.50	4.8
TRCA12-12	0.750	1,880	12.00	7.75	0.25	1.00	0.93	1.56	2.75	.25	11.49	0.500	1.437	4.50	9.62	8.2
TRCA12-18	0.750	1,880	18.00	7.75	0.25	1.00	0.93	1.56	2.75	.25	17.49	0.500	1.437	4.50	15.62	10.7
TRCA16-6	1.000	3,120	6.00	9.00	0.00	1.25	1.18	2.00	3.25	.25	6.00	0.500	1.687	5.25	3.25	7.2
TRCA16-12	1.000	3,120	12.00	9.00	0.25	1.25	1.18	2.00	3.25	.25	11.49	0.500	1.687	5.25	8.87	11.0
TRCA16-18	1.000	3,120	18.00	9.00	0.25	1.25	1.18	2.00	3.25	.25	17.49	0.500	1.687	5.25	14.87	14.0
TRCA16-24	1.000	3,120	24.00	9.00	0.25	1.25	1.18	2.00	3.25	.25	23.49	0.500	1.687	5.25	20.87	16.9
TRCA20-8	1.250	4,680	8.00	10.50	0.25	1.62	1.50	2.56	4.00	.25	7.50	0.750	2.250	6.00	3.90	16.0
TRCA20-12	1.250	4,680	12.00	10.50	0.25	1.62	1.50	2.56	4.00	.25	11.49	0.750	2.250	6.00	8.12	16.4
TRCA20-18	1.250	4,680	18.00	10.50	0.25	1.62	1.50	2.56	4.00	.25	17.49	0.750	2.250	6.00	14.12	21.6
TRCA20-24	1.250	4,680	24.00	10.50	0.25	1.62	1.50	2.56	4.00	.25	23.49	0.750	2.250	6.00	20.12	26.8
TRCA24-12	1.500	6,240	12.00	12.00	1.50	1.87	1.75	2.93	4.75	.31	9.00	1.000	2.750	6.62	5.00	30.0
TRCA24-18	1.500	6,240	18.00	12.00	0.25	1.87	1.75	2.93	4.75	.31	17.50	1.000	2.750	6.62	13.75	40.2
TRCA24-24	1.500	6,240	24.00	12.00	0.25	1.87	1.75	2.93	4.75	.31	23.50	1.000	2.750	6.62	19.75	48.1
TRCA24-30	1.500	6,240	30.00	12.00	0.25	1.87	1.75	2.93	4.75	.31	29.50	1.000	2.750	6.62	25.75	56.0
TRCA32-18	2.000	9,400	18.00	14.00	0.25	2.43	2.25	3.62	6.00	.37	17.50	1.250	3.375	7.25	12.75	61.7
TRCA32-24	2.000	9,400	24.00	14.00	0.25	2.43	2.25	3.62	6.00	.37	23.50	1.250	3.375	7.25	18.75	73.2
TRCA32-30	2.000	9,400	30.00	14.00	0.25	2.43	2.25	3.62	6.00	.37	29.50	1.250	3.375	7.25	24.75	84.8

Footnotes:

(1) Rating based upon 2 million inches of travel with the load forces being applied downward on the linear bearing, while in a horizontal application, and based upon 1060 steel shafting (Rockwell 60C). The actual load rating, and life, is dependent upon factors detailed on pages 6 to 11.

(2) This value is the center distance of the bearing to the top of the carriage plate surface (d_r).

(3) This value is the center to center distance (spread) between the rails (d_1).

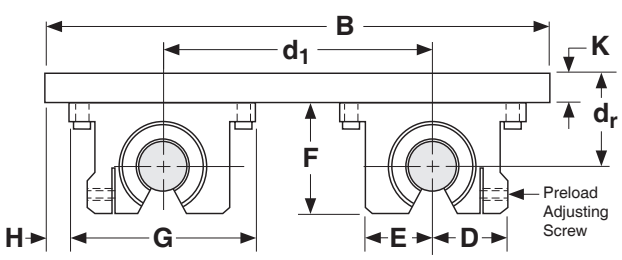
(4) This value is the center to center distance (spacing) of the bearings on a single shaft (d_2).

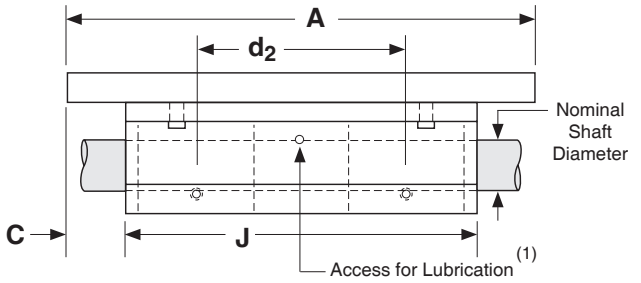
Dimensions

(inches)

Available For:

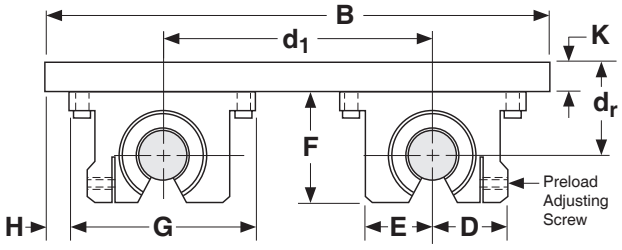
TRCA8-6, TRCA10-6,TRCA12-6,
TRCA16-6,TRCA20-8, TRCA24-12

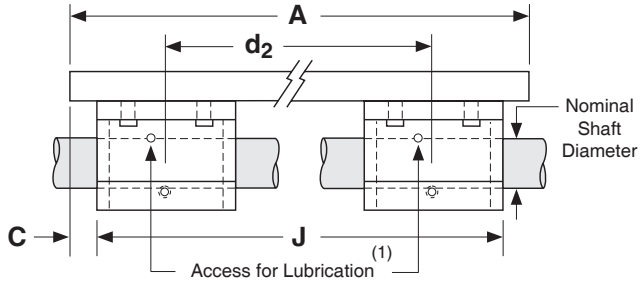




Available For:

All other TRCA models,
not shown above





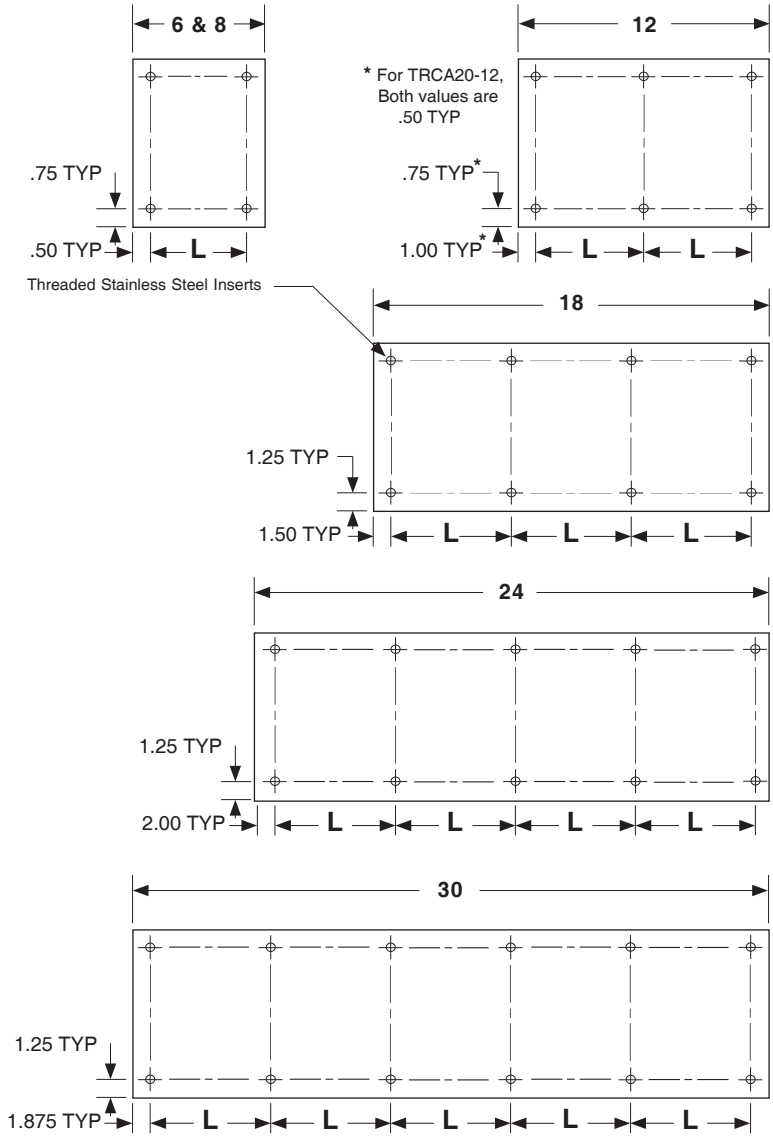
Footnotes:

(1) Size 0.500 has oil lubricant fitting. Sizes 0.625 and above have a $^{1}/_{4}$-28 UNF straight thread access for lubrication.

(-P) Pre-Machined Carriage Mounting Holes

All carriage assembly plates are available with a pre-determined number & location of mounting holes. These holes consist of stainless steel threaded inserts per the below chart. Custom mounting patterns are available upon request.

Model Number	Carriage Length (inches)	L (inches)	Threaded Insert Size
TRCA8-6-P	6.00	5.00	#10-32
TRCA8-12-P	12.00	5.00	#10-32
TRCA8-18-P	18.00	5.00	#10-32
TRCA10-6-P	6.00	5.00	#10-32
TRCA10-12-P	12.00	5.00	#10-32
TRCA10-18-P	18.00	5.50	#10-32
TRCA12-6-P	6.00	5.00	1/4-28
TRCA12-12-P	12.00	5.00	1/4-28
TRCA12-18-P	18.00	5.50	1/4-28
TRCA16-6-P	6.00	5.00	5/16-24
TRCA16-12-P	12.00	5.00	5/16-24
TRCA16-18-P	18.00	5.00	5/16-24
TRCA16-24-P	24.00	5.00	5/16-24
TRCA20-8-P	8.00	7.00	3/8-24
TRCA20-12-P	12.00	5.00	3/8-24
TRCA20-18-P	18.00	5.00	3/8-24
TRCA20-24-P	24.00	5.00	3/8-24
TRCA24-12-P	12.00	5.00	3/8-24
TRCA24-18-P	18.00	5.00	3/8-24
TRCA24-24-P	24.00	5.00	3/8-24
TRCA24-30-P	30.00	5.25	3/8-24
TRCA32-18-P	18.00	5.00	1/2-20
TRCA32-24-P	24.00	5.00	1/2-20
TRCA32-30-P	30.00	5.25	1/2-20

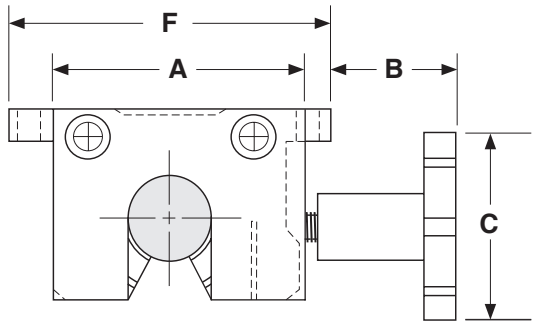


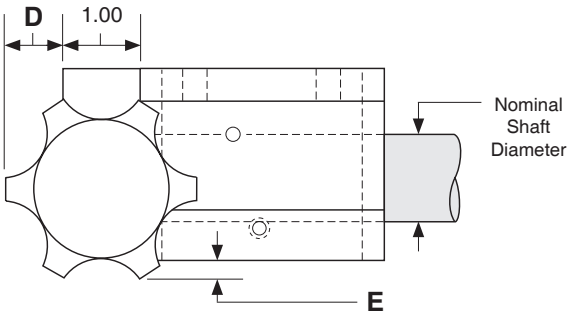
Options

(-L) Hand Wheel Lock

This option adds an aluminum clamping block to the end of a pillow block, which then provides for a manual lock of the bearing to the shaft. The threaded hand wheel shaft presses into a bronze insert which makes contact to provide a "pressure lock" to the shaft. The threaded steel screw will not back drive and does not make physical contact with the steel shaft (no steel to steel contact). The lock will be installed as shown below when ordered with a SLBC, SLBO, DLBC, DLBO, or TRCA series. Multiple locks can be installed onto a TRCA assembly.

Nominal Shaft Diameter (inches)	Dimensions (inches)						
	A	B	C	D	E		F
					open	closed	
8 - 0.500	1.680	1.72	2.00	0.50	.56	.44	2.00
10 - 0.625	1.875	1.53	2.00	0.50	.50	.31	2.50
12 - 0.750	2.067	1.46	2.00	0.50	.37	.18	2.75
16 - 1.000	2.312	1.34	2.00	0.50	.19	---	3.25
20 - 1.250	3.125	1.66	2.50	0.75	.17	---	4.00
24 - 1.500	3.625	1.46	2.50	0.75	.05	---	4.75
32 - 2.000	4.600	1.45	2.50	0.75	---	---	6.00





Custom Carriage Sizes

Custom carriage sizes that need to be wider, or longer than shown in this catalog can be provided upon request. This will allow for larger rail and bearing spacing (d_1 & d_2 dimensions).

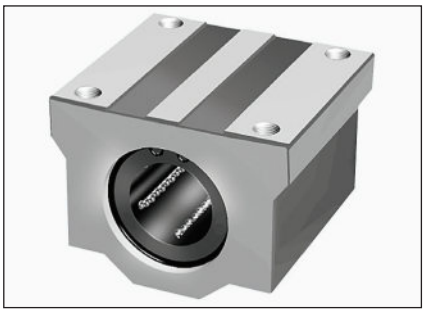
Custom Carriage Material & Finishes

The standard carriage material is aluminum with a black anodized finish. Aluminum plates can be finished in many different colors, while steel carriage plates can be provided with a black oxide finish. Many other custom alternatives for carriage plates are available.

Special Grease Options

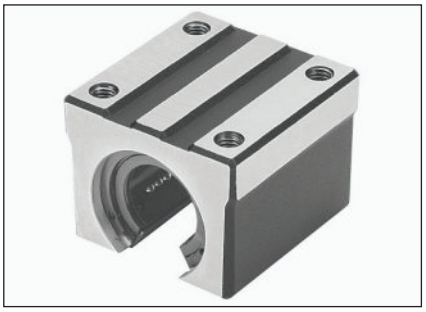
Bearings can be supplied with special greases, or lubricants, in order to meet the environmental requirements of the application. Examples of operating environments which may require a special lubricant include: high or low temperature, clean rooms, vacuums and food grade applications.

SLBCM Series
Single Self-Aligning Closed



SLBCM-A Series
Single Self-Aligning Closed Adjustable

SLBOM Series
Single Self-Aligning Open



DLBCM Series
Double Self-Aligning Closed

SLBCME Series
Single Self-Aligning Closed

SLBCME-A Series
Single Self-Aligning Closed Adjustable

SLBOME Series
Single Self-Aligning Open

SLBOME-A Series
Single Self-Aligning Open Adjustable

DLBCME Series
Double Self-Aligning Closed

DLBCME-A Series
Single Self-Aligning Closed Adjustable

DLBOME Series
Double Self-Aligning Open

DLBOME-A Series
Double Self-Aligning Open Adjustable