

**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**

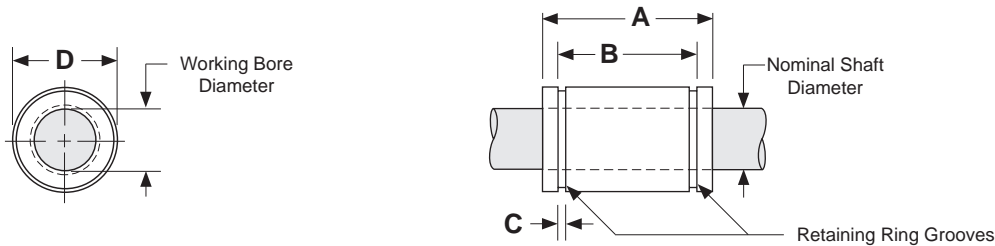
- No seals
- S** - Seals at both ends

## Specifications: LBCA & LBOA Linear Bearings

<p><b>Operating Temperature</b></p> <p><b>Maximum Speed</b></p> <p><b>Bearing Seals</b> (optional)</p> <p><b>Matching Shaft</b></p>	<p>0° F to + 600° F (without seals)      0° F to + 185° F (with seals)</p> <p>10 ft/second</p> <p>Internal Wiper Seals on both ends, Plastic Bearing Retainer</p> <p>Class S (<b>SS</b> series), hardened &amp; ground shafting (see pages 38 - 39)</p>					
<p><b>Housing Tolerances</b></p> <p>C = clearance</p>	<p><b>LBCA</b> (closed style)</p>		<p><b>LBOA</b> (open style)</p>			
	<p><b>Nominal Shaft Diameter</b> (inches)</p>	<p><b>Recommended Housing Bore</b></p>		<p><b>Bearing and Shaft Fit-up</b> (inches)</p>	<p><b>Nominal Shaft Diameter</b> (inches)</p>	<p><b>Recommended Housing Bore</b> before adjustment (inches)</p>
		<p>Normal Fit (inches)</p>	<p>Press Fit (inches)</p>			
	0.250	.5005 / .5000	.4995 / .4990	.0015C / .0005C		
	0.375	.6255 / .6250	.6245 / .6240	.0015C / .0005C		
	0.500	.8755 / .8750	.8745 / .8740	.0015C / .0005C	0.500	.8760 / .8740
	0.625	1.1255 / 1.1250	1.1245 / 1.1240	.0015C / .0005C	0.625	1.1260 / 1.1240
	0.750	1.2505 / 1.2500	1.2495 / 1.2490	.0015C / .0005C	0.750	1.2510 / 1.2490
	1.000	1.5630 / 1.5625	1.5620 / 1.5615	.0015C / .0005C	1.000	1.5635 / 1.5615
	1.250	2.0010 / 2.0000	1.9993 / 1.9983	.0015C / .0004C	1.250	2.0010 / 1.9990
	1.500	2.3760 / 2.3750	2.3743 / 2.3733	.0016C / .0005C	1.500	2.3760 / 2.3740
	2.000	3.0010 / 3.0000	2.9992 / 2.9982	.0020C / .0005C	2.000	3.0010 / 2.9990

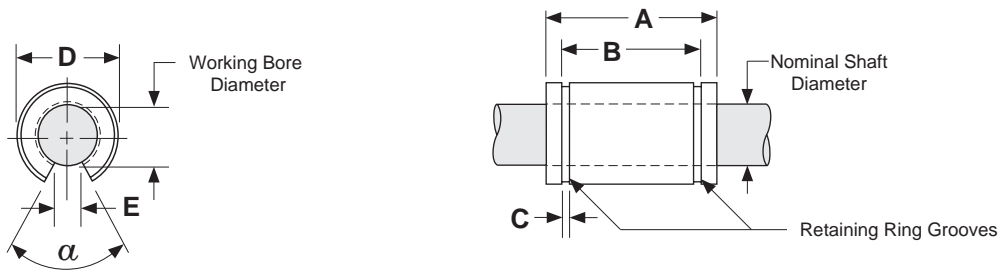
Dimensions & Specifications: **LBCA** Precision Linear Bearing (closed)

Model Number		Nominal Shaft Diameter (inches)	Working Bore Diameter (inches)	Dyn. <sup>(1)</sup> Load Capacity (lbs)	Dimensions (inches)				Bearing Weight (lbs)
Without Seals	With <sup>(2)</sup> Seals				A	B	C	D	
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 Dia. (inches)	Working Bore Diameter (inches)	Dyn. <sup>(1)</sup> Load Cap. (lbs)	Dimensions (inches)					Bearing Weight (lbs)	Angle $\alpha$
Without Seals	With <sup>(2)</sup> Seals				A	B	C	D	E min.		
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	50°
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	60°
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	60°
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	60°
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	50°
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	50°
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	50°



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)

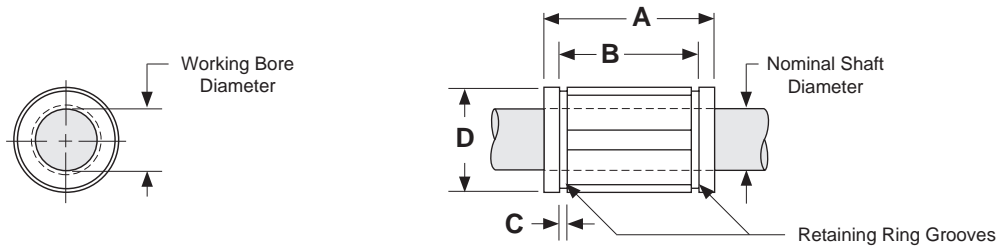
<b>Operating Temperature</b>	0° F to + 185° F				
<b>Maximum Speed</b>	9 ft/second				
<b>Bearing Seals</b>	Optional Internal Wiper Seals on both ends				
<b>Matching Shaft</b>	Class L ( <b>SL</b> series), hardened & ground shafting (see pages 38 - 39)				
<b>Housing Tolerances</b> C = clearance P = preload	<b>Nominal Shaft Diameter</b>  (inches)	<b>Recommended Housing Bore</b>		<b>Bearing and Shaft Fit-up<sup>(1)</sup></b> (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.

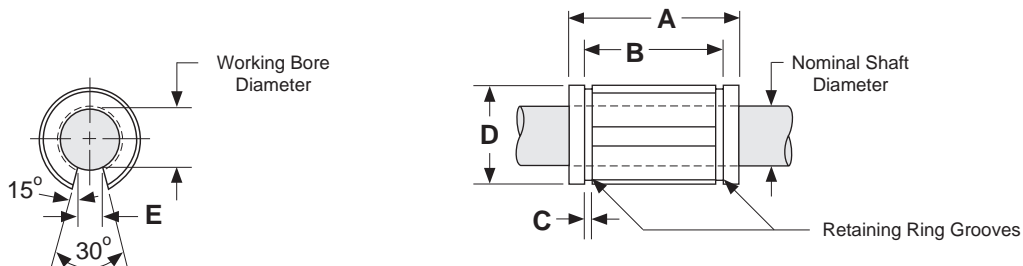
## Dimensions & Specifications: **LBC** Linear Bearing (closed)

Model Number		Nominal Shaft Diameter (inches)	Dyn. <sup>(1)</sup> Load Capacity (lbs)	Working Bore Diameter (inches)	Housing Bore <sup>(2)</sup> D (inches)	Dimensions (inches)			Bearing Weight (lbs)
Without Seals	With Seals					A	B	C	
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	420	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	1,045	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	1,585	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	1,930	1.5000/1.4994	2.3760/2.3750	3.000/2.970	2.410/2.390	0.086	0.85
LBC-32	not available	2.000	3,000	2.0000/1.9992	3.0010/3.0000	4.000/3.960	3.193/3.163	0.105	1.45



## Dimensions & Specifications: **LBO** Linear Bearing (open)

Model Number		Nominal Shaft Diameter (inches)	Dyn. <sup>(1)</sup> Load Capacity (lbs)	Working Bore Diameter (inches)	Housing Bore <sup>(2)</sup> D (inches)	Dimensions (inches)				Bearing Weight (lbs)
Without Seals	With Seals					A	B	C	E min.	
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	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	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	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	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	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	0.71
LBO-32	not available	2.000	2,350	2.0000/1.9992	3.0010/3.0000	4.000/3.960	3.193/3.163	0.105	1.000	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

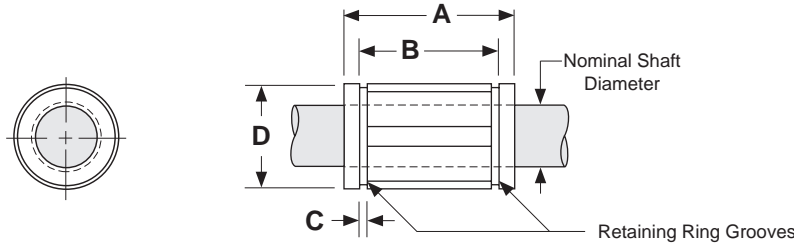
**S** - Seals at both ends

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

<b>Operating Temperature</b>	-17.8° C to +85° C												
<b>Maximum Speed</b>	2,74 meters/second												
<b>Matching Shaft</b>	Metric ( <b>SM</b> series), hardened & ground shafting (see pages 40 - 41)												
<b>Housing Tolerances</b>	<table border="1"> <thead> <tr> <th>Nominal Shaft Diameter (mm)</th> <th>Recommended Housing Bore D (mm)</th> </tr> </thead> <tbody> <tr> <td>16</td> <td>28,10 / 28,03</td> </tr> <tr> <td>20</td> <td>32,10 / 32,05</td> </tr> <tr> <td>25</td> <td>40,10 / 40,05</td> </tr> <tr> <td>30</td> <td>45,15 / 45,05</td> </tr> <tr> <td>40</td> <td>60,15 / 60,05</td> </tr> </tbody> </table>	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
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												

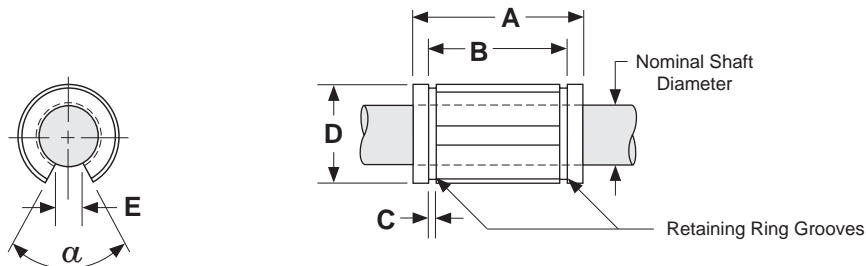
## Dimensions & Specifications: LBCM Linear Bearing Closed Metric (Asian Style)

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

# Ordering Guide - Self-Aligning Metric (European Style) - LBCME & LBOME Series



**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)

<b>Operating Temperature</b>	-17.8° C to +85° C	
<b>Maximum Speed</b>	2,74 meters/second	
<b>Matching Shaft</b>	Metric ( <b>SM</b> series), hardened & ground shafting (see pages 40 - 41)	
<b>Housing Tolerances</b>	<b>Nominal Shaft Diameter</b>	<b>Recommended Housing Bore D</b>
	(mm)	(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	

Sold & Serviced By:

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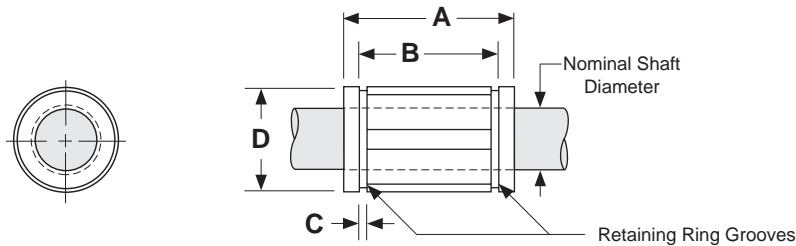
Toll Free Fax (877) SERV099

[www.electromate.com](http://www.electromate.com)

[sales@electromate.com](mailto:sales@electromate.com)

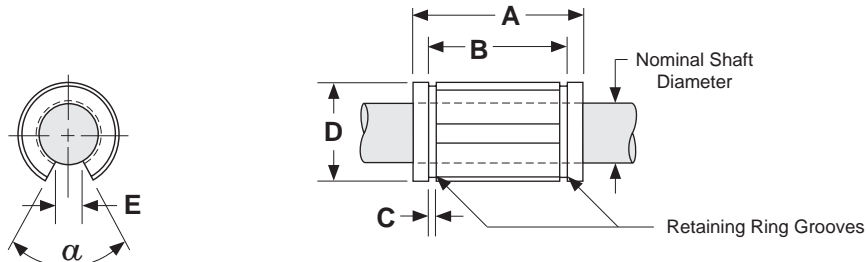
## Dimensions & Specifications: LBCME Linear Bearing Closed Metric (European Style)

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

Sold & Serviced By:

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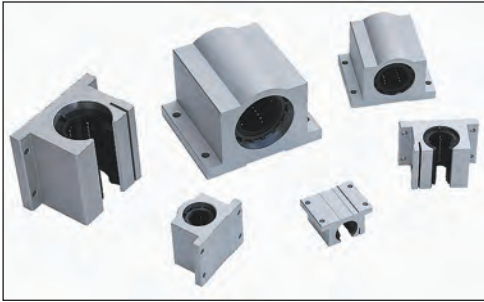
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**SLBC** - **10** - **CR** - **L**

**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** \_\_\_\_\_

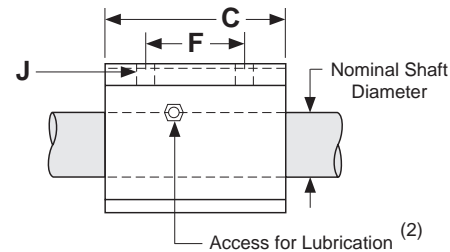
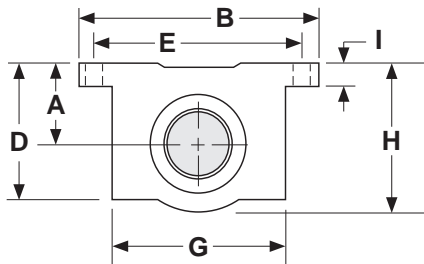
- None
- L** - Hand wheel lock

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

<b>Bearing Housing Type &amp; Finish</b>	Aluminum 6061-T6 Pillow Block, Clear Anodized																	
<b>Bearing Seals</b>	Internal Wiper Seals on Both Ends																	
<b>Operating Temperature</b>	0° F to + 185° F																	
<b>Maximum Speed</b>	9 ft/second																	
<b>Matching Shaft</b>	Class L ( <b>SL</b> series), hardened & ground shafting (see pages 38 - 39)																	
<b>Diameter Tolerance</b>	<table border="1"> <thead> <tr> <th>Nominal Shaft Diameter (inches)</th> <th>Shaft Diameter Tolerance (inches)</th> </tr> </thead> <tbody> <tr> <td>0.500</td> <td>.4995 / .4990</td> </tr> <tr> <td>0.625</td> <td>.6245 / .6240</td> </tr> <tr> <td>0.750</td> <td>.7495 / .7490</td> </tr> <tr> <td>1.000</td> <td>.9995 / .9990</td> </tr> <tr> <td>1.250</td> <td>1.2495 / 1.2490</td> </tr> <tr> <td>1.500</td> <td>1.4994 / 1.4989</td> </tr> <tr> <td>2.000</td> <td>1.9994 / 1.9987</td> </tr> </tbody> </table>	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	
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																	

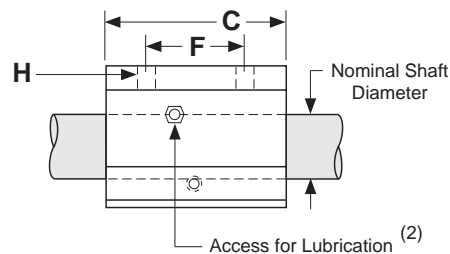
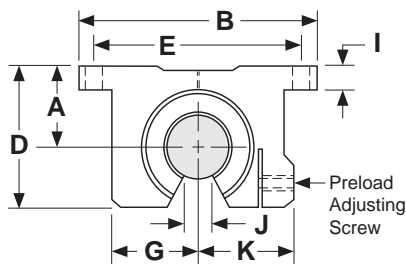
## Dimensions & Specifications: **SLBC** Single Linear Bearing Closed Pillow Block (self-aligning)

Model Number	Nominal Shaft Diameter (inches)	Dyn. Load Capacity (lbs)	Dimensions (inches)											Block Weight (lbs)
			A	B	C	D	E	F	G	H	I	J		
			+/- .003				+/- .010	+/- .010				hole	bolt	
<b>SLBC-8</b>	0.500	265	0.687	2.00	1.69	1.13	1.688	1.000	1.38	1.25	.25	.16	# 6	0.20
<b>SLBC-10</b>	0.625	420	0.875	2.50	1.94	1.44	2.125	1.125	1.75	1.63	.28	.19	# 8	0.50
<b>SLBC-12</b>	0.750	640	0.937	2.75	2.06	1.56	2.375	1.250	1.88	1.75	.31	.19	# 8	0.60
<b>SLBC-16</b>	1.000	1,045	1.187	3.25	2.81	1.94	2.875	1.750	2.38	2.19	.38	.22	#10	1.20
<b>SLBC-20</b>	1.250	1,585	1.500	4.00	3.63	2.50	3.500	2.000	3.00	2.81	.44	.22	#10	2.50
<b>SLBC-24</b>	1.500	1,930	1.750	4.75	4.00	2.88	4.125	2.500	3.50	3.25	.50	.28	1/4	3.80
<b>SLBC-32</b>	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. Load Capacity (lbs)	Dimensions (inches)												Block Weight (lbs)
			A	B	C	D	E	F	G	H		I	J	K	
			+/- .003				+/- .010	+/- .010		hole	bolt		min.		
<b>SLBO-8</b>	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
<b>SLBO-10</b>	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
<b>SLBO-12</b>	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
<b>SLBO-16</b>	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
<b>SLBO-20</b>	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
<b>SLBO-24</b>	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
<b>SLBO-32</b>	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

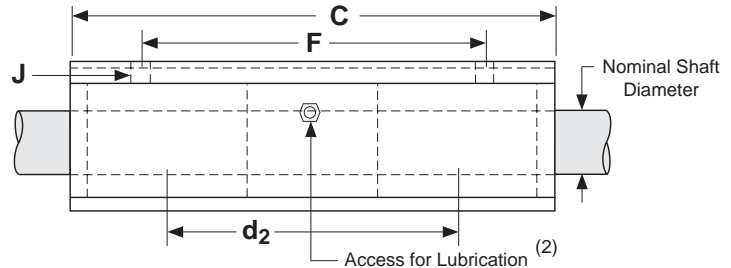
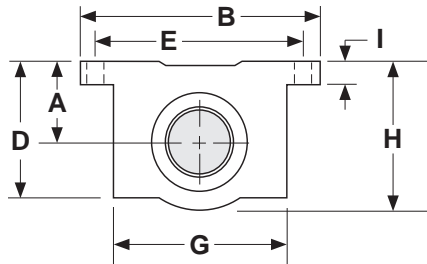


### Footnotes:

- (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.

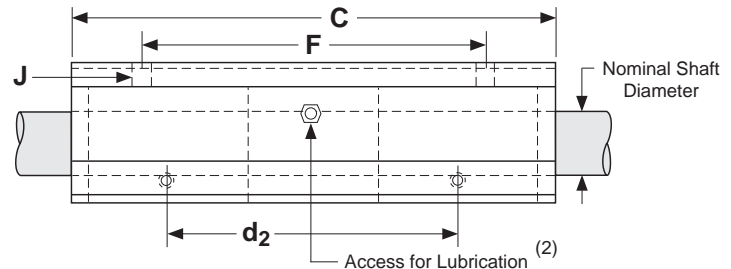
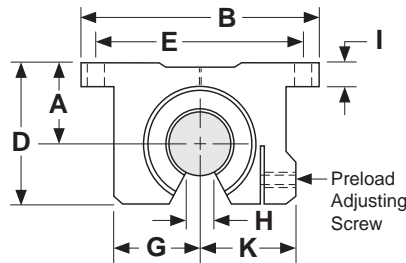
## Dimensions & Specifications: DLBC Double Linear Bearing Closed Pillow Block (self-aligning)

Model Number	Nominal Shaft Diameter (inches)	Dyn. Load Capacity (lbs) <sup>(1)</sup>	Dimensions (inches)											Block Weight (lbs)	
			A	B	C	D	E	F	G	H	I	J			d <sub>2</sub> <sup>(3)</sup>
			+/- .003				+/- .010	+/- .010					hole		
DLBC-8	0.500	510	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	1,200	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	3,000	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



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

Model Number	Nominal Shaft Diameter (inches)	Dyn. Load Capacity (lbs) <sup>(1)</sup>	Dimensions (inches)													Block Weight (lbs)
			A	B	C	D	E	F	G	H	I	J		K	d <sub>2</sub> <sup>(3)</sup>	
			+/- .003				+/- .010	+/- .010		min.		hole	bolt			
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



### 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<sub>2</sub>).

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Specifications subject to change without notice

**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**

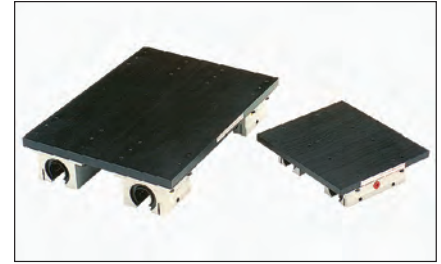
- Standard
- CR** - Corrosion resistant

**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**

<b>Bearing Housing Type &amp; Finish</b>	Aluminum 6061-T6 Pillow Block, Clear Anodized	
<b>Bearing Seals</b>	Internal Wiper Seals on Both Ends	
<b>Carriage Plate Type &amp; Finish</b>	Machined Aluminum 6061-T6 Plate, Black Anodized	
<b>Bearing Alignment on Plate</b>	+/- 0.001", Pillow Blocks Doweled to Carriage Plate	
<b>Operating Temperature</b>	0° F to + 185° F	
<b>Maximum Speed</b>	9 ft/second	
<b>Matching Shaft Assembly</b>	<b>TRSA</b> series (see page 47)	
<b>Diameter Tolerance</b>	<b>Nominal Shaft Diameter</b> (inches)	<b>Shaft Diameter Tolerance</b> (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. Load Cap. (lbs)	Dimensions (inches)													Assembly Weight (lbs)
			A +/- .005	B +/- .005	C	D	E	F	G	H	J	K	d <sub>r</sub> <sup>(2)</sup>	d <sub>1</sub> <sup>(3)</sup>	d <sub>2</sub> <sup>(4)</sup>	
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

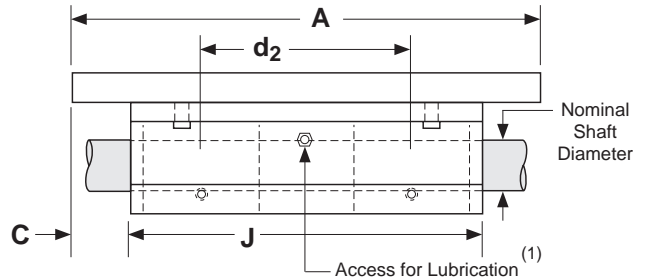
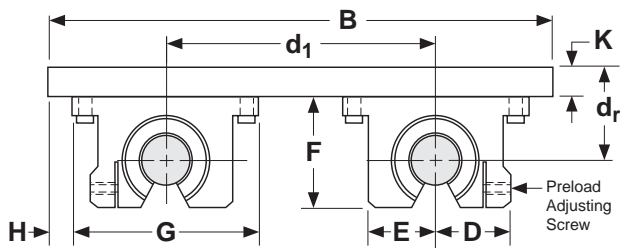
### Footnotes:

- (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<sub>r</sub>).
- (3) This value is the center to center distance (spread) between the rails (d<sub>1</sub>).
- (4) This value is the center to center distance (spacing) of the bearings on a single shaft (d<sub>2</sub>).

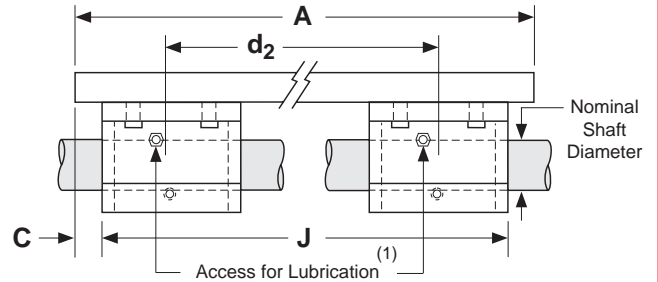
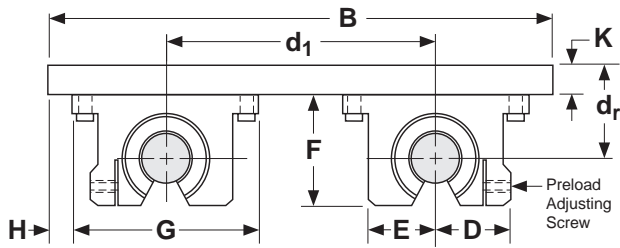
Dimensions

(inches)

**Available For:**  
 TRCA8-6, TRCA10-6, TRCA12-6,  
 TRCA16-6, TRCA20-8, TRCA24-12



**Available For:**  
 All other TRCA models,  
 not shown above



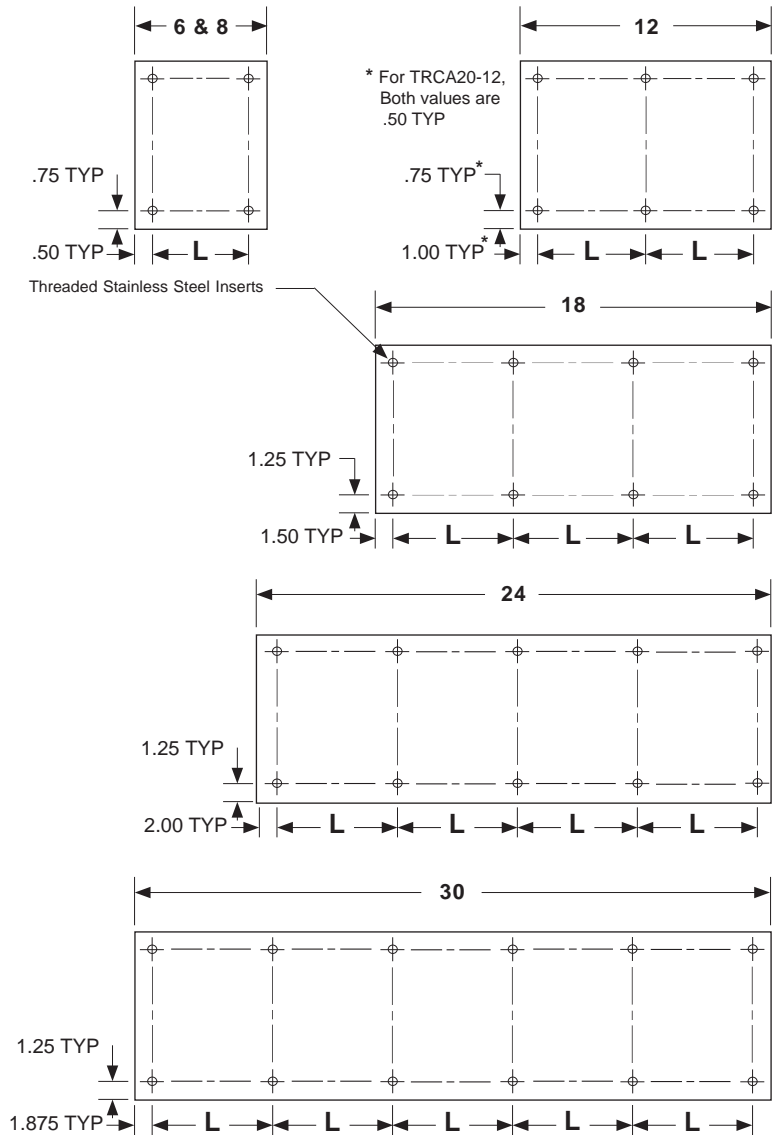
Footnotes:

(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

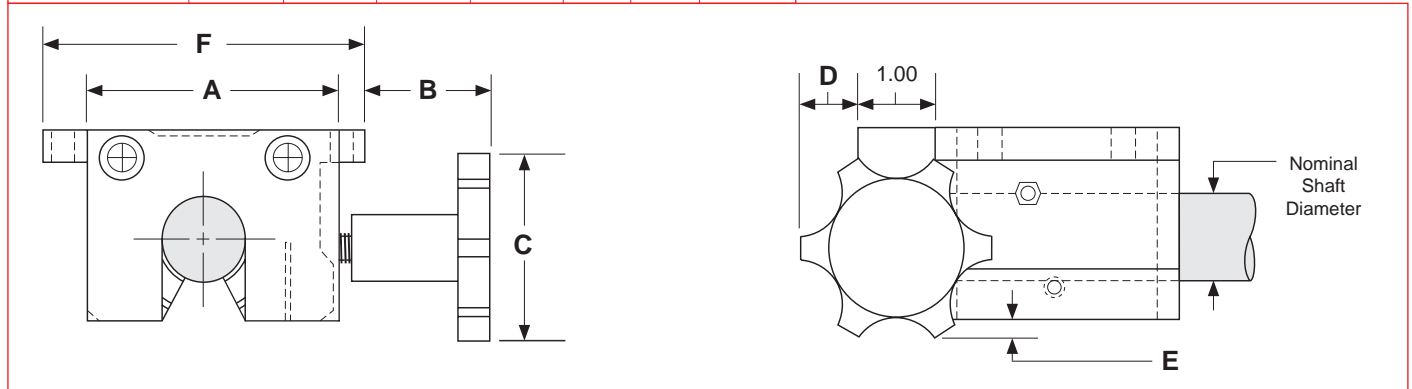


# Options

## ( -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.

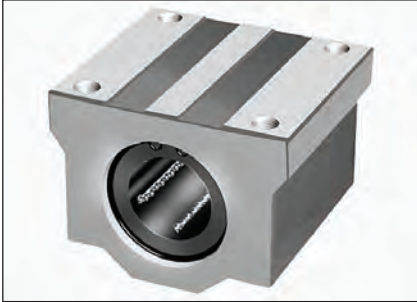
## Special Grease Options

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.



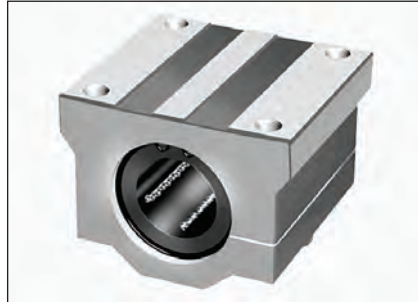
## SLBCM Series

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



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