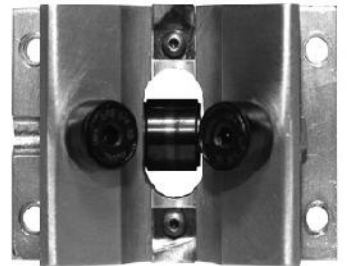
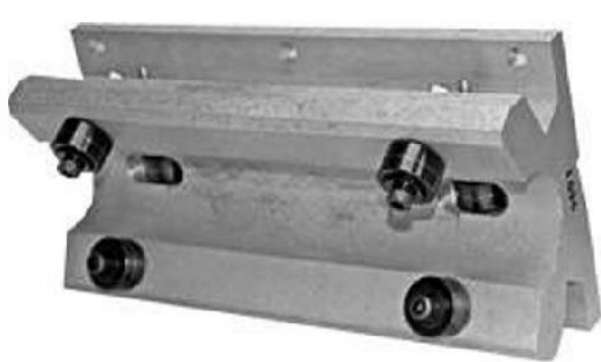




Direct Drop-In Replacements for Linear Ball Bearings



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Balls



VS

Rollers

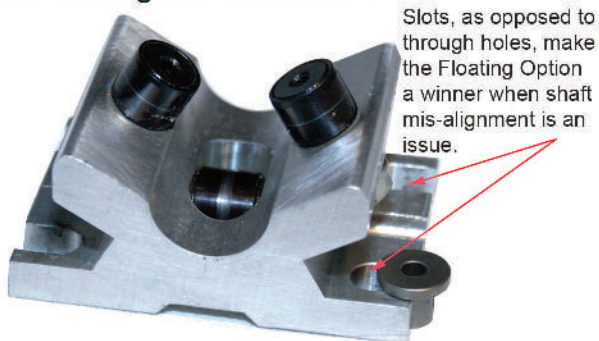


HIGHER SPEEDS –

The design of the JET Rail Roller Bearing Pillow Block incorporates a larger “rolling” diameter than ball bearing pillow blocks. This allows operation at significantly higher speeds and acceleration than the equivalent size recirculating ball pillow blocks.

SHAFT PARALLELISM –

JET Rail Roller Bearing Pillow Blocks feature a “Floating Option” which will permit shafts to be out of parallelism. JET Rail Roller Bearing Pillow Blocks are the only linear motion pillow blocks with this patented option to compensate for non-parallel shafts. For instance, a 1” JET Rail Bearing can float 3/32”.



Slots, as opposed to through holes, make the Floating Option a winner when shaft mis-alignment is an issue.

LOW FRICTION –

JET Rail Roller Bearing Pillow Blocks have a very low “rolling” dynamic coefficient of friction (0.004 on average) and a very low resistance to motion. Unlike ball bearing pillow blocks which require shaft seals for proper operation, the JET Rail Roller Bearing Pillow Blocks have individually sealed rollers, and does not require shaft seals that generate resistance to motion.

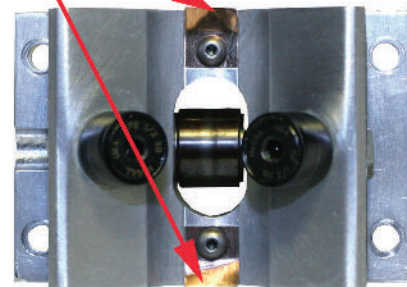
LONGER LIFE AND SHAFT PROTECTION –

Unlike recirculating ball pillow blocks which create a point contact between the ball and the shaft, the main roller outer race of JET Rail Roller Bearing Pillow Blocks feature a concave groove to match the shaft diameter. This creates a line contact versus a point contact. The point contact associated with recirculating ball bearings generates very high stress, is prone to shaft grooving, and premature shaft failure.

CORROSION RESISTANCE –

JET Rail Roller Bearing Pillow Blocks are constructed with an aluminum body. The exposed surfaces of the rollers have a black oxide finish to resist corrosion. Special rollers of stainless steel or chrome plated are available in some sizes.

Scrapers clear a pathway for top rollers when debris is an issue.



LM76 Linear Motion Bearings

140 Industrial Drive

E. Longmeadow, Ma 01028

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Sales@LM76.com

Designed to overcome the limitations of linear bearings with multiple re-circulating ball circuits and to provide a product with trouble free operation, LM76 Roller Bearing Pillow Blocks provide the following advantages:

ADVANTAGES:

ADJUSTMENT -

LM76 Roller Bearing Pillow Blocks constructed with an adjustable eccentric stud feature to allow easy radial clearance adjustment. The clearance is set at the factory for optimum shaft clearance for LM76 Bearings 60 RC shaft tolerance "B". This shaft clearance can easily be adjusted to provide for "very loose" to "preload" conditions.

ALIGNMENT -

LM76 Single Roller Bearing Pillow Blocks are self aligning due to the unique design. This Roller Bearing Pillow Block has a higher tolerance to shaft deflection than the recirculating ball pillow block. In most applications, the double and twin models also either match or exceed the tolerances for misalignment offered by recirculating ball pillow block.

CORROSION RESISTANCE -

LM76 Roller Bearing Pillow Blocks are constructed with an aluminum body. The exposed surfaces of the rollers have a black oxide finish to resist corrosion. Special rollers of stainless steel or chrome plated are available in some sizes.

HIGHER SPEEDS -

The design of the LM76 Roller Bearing Pillow Block incorporates a larger "rolling" diameter than ball bushing pillow blocks. This allows operation at significantly higher speeds and acceleration than the equivalent size recirculating ball pillow blocks.

INTERCHANGEABILITY -

LM76 Roller Bearing Pillow Blocks mounting hole locations and shaft center to mounting surface dimensions are identical to all of the other popular linear pillow blocks of the same size.

LONGER LIFE AND SHAFT PROTECTION -

Unlike recirculating ball pillow blocks which create a point contact between the ball and the shaft, the main roller outer race of the LM76 Roller Bearing Pillow Block has a concave groove to match the shaft diameter. This creates a line contact versus a point contact. The point contact associated with recirculating ball bushings generates very high stress, is prone to shaft grooving, and premature shaft failure.

REBUILDABLE -

Each roller component can be easily replaced without replacing the entire pillow block. For information regarding rebuild kits see page 5.

LOW FRICTION -

LM76 Roller Bearing Pillow Blocks have a very low "rolling" dynamic coefficient of friction (0.004 on average) and a very low resistance to motion. Unlike ball bushing pillow blocks which require shaft seals for proper operation, the LM76 Roller Bearing Pillow Blocks have individually sealed rollers and does not require shaft seals that generate resistance to motion.

LUBRICATION -

Each roller bearing is individually lubricated with a lithium base grease and sealed. This minimizes the need for periodic lubrication. Lithium base grease is preferred in this type of application because it has the ability to stand up under churning action in a confined space. This type of grease is also designed to run on an oiled shaft for optimum travel life. The bearings can run on a dry shaft, but a shorter travel life will result.

OPERATING TEMPERATURE -

The operating temperature of the LM76 Roller Bearing Pillow Block is determined by the temperature limit of the lubrication and seals. The normal operating temperature range is -60F to 250F.

SHAFT PARALLELISM -

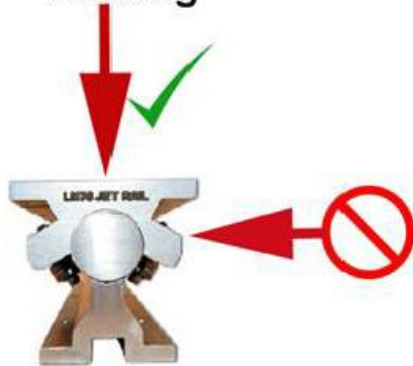
The LM76 Roller Bearing Pillow Blocks feature a "Floating Option" will permit shafts to be out of parallelism. The LM76 Roller Bearing Pillow Block is the only linear motion pillow block with this patented option to compensate for non-parallel shafts.



For applications that exceed normal bearing requirements or for applications that are unusual or abnormal, please contact the factory.

JET Rail Loading Data

Correct JET Rail Loading



Jet Rail Rail Roller Blocks offer smooth, very quiet and solid linear motion. Their design dictates that the load fall on the top rollers which have a center radius which meets the crown of the shaft. Thus a straight and uniform compressive load is ideal for their construction. They are not designed for side loading - where the side rollers are being loaded. Nor are they to be inverted (upside down/ceiling mounted), again loading the side rollers.



Hanging Load

NOTE:

Top Rollers must be load bearing.

Since the cam follower is a needle bearing with an inner and outer race, we do not want a load scenario where the inner and outer races are put in shear. This will cause the races to separate and fail prematurely.

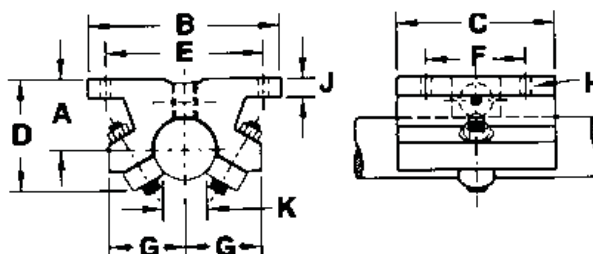


Inch Sizes

LM76 Linear Bearings



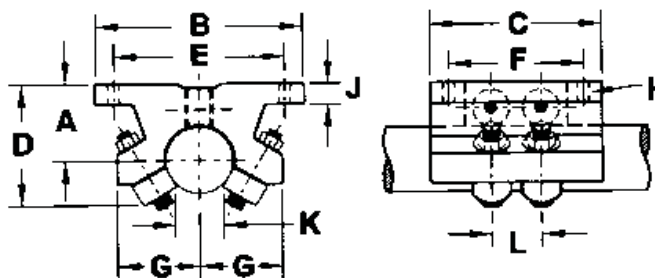
TABLE #1
DIMENSIONS & LOAD RATINGS FOR
SINGLE PILL OW BLOCKS



MODEL	SHAFT DIA	DYN. LOAD	WGT.	+0.003 A	B	C	D	E	F	G	BOLT HOLE	J	K
JRS-8-OPN	1/2	400	0.4	0.687	2	1-1/2	1-5/32	1.688	1.000	1	#6 5/32	0.240	5/16
JRS-10-OPN	5/8	500	0.5	0.875	2-1/2	1-3/4	1-13/32	2.125	1.125	1-1/16	#8 3/16	0.270	3/8
JRS-12-OPN	3/4	600	0.6	0.937	2-3/4	1-7/8	1-9/16	2.375	1.250	1-1/16	#8 3/16	0.300	7/16
JRS-16-OPN	1	955	1.0	1.187	3-1/4	2-5/8	2	2.875	1.750	1-3/8	#10 7/32	0.360	11/16
JRS-20-OPN	1 1/4	1400	2.0	1.500	4	3-3/8	2-9/16	3.500	2.000	1-3/4	#10 7/32	0.424	13/16
JRS-24-OPN	1 1/2	1660	2.8	1.750	4-3/4	3-3/4	2-7/8	4.125	2.500	1-7/8	1/4 9/32	0.474	1-1/16
JRS-32-OPN	2	2400	5.0	2.125	6	4-3/4	3-1/2	5.250	3.250	2-1/2	3/8 13/32	0.600	1-3/8
JRS-48-OPN	3	6260	14.0	3.500	8-3/8	5-1/2	5-1/2	7.000	4.000	3-5/8	5/8 21/32	1.000	2-1/8
JRS-64-OPN	4	10500	31.0	4.500	10-1/4	6-1/4	7-1/2	8.875	4.500	5-1/8	3/4 25/32	1.125	2-3/4



TABLE #2
DIMENSIONS & LOAD RATINGS FOR
DOUBLE PILL OW BLOCKS



MODEL #	SHAFT DIA	DYN. LOAD	WGT.	+0.003 A	B	C	D	E	F	G	BOLT HOLE	J	K	L
JRD-8-OPN	1/2	800	0.50	0.69	2	2	1-5/32	1.688	1.625	1	#6 5/32	0.240	5/16	.562
JRD-10-OPN	5/8	1000	0.70	0.88	2-1/2	2-1/2	1-13/32	2.125	2	1-1/16	#8 3/16	0.270	3/8	0.562
JRD-12-OPN	3/4	1200	0.80	0.94	2-3/4	2-5/8	1-9/16	2.375	1.25	1-1/16	#8 3/16	0.300	7/16	0.562
JRD-16-OPN	1.0	1910	1.20	1.19	3-1/4	2-5/8	2	2.875	1.75	1-3/8	#10 7/32	0.360	11/16	0.720
JRD-20-OPN	1-1/4	2800	2.30	1.50	4	3-3/8	2-9/16	3.5	2	1-3/4	#10 7/32	0.424	13/16	0.937
JRD-24-OPN	1-1/2	3320	3.00	1.75	4-3/4	3-3/4	2-7/8	4.125	2.5	1-7/8	1/4 9/32	0.474	1-1/16	0.937
JRD-32-OPN	2.0	4800	5.50	2.13	6	4-3/4	3-1/2	5.25	3.25	2-1/2	3/8 13/32	0.600	1-3/8	1.187
JRD-48-OPN	3.0	12500	20.00	3.50	8-3/8	7-1/4	5-1/2	7	5.875	3-5/8	5/8 21/32	1.000	2-1/8	2.080
JRD-64-OPN	4.0	21000	51.00	4.50	10-1/4	9.0	7-1/2	8.875	7.25	5-1/8	3/4 25/32	1.125	2-3/4	2.600



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Inch Twin Sizes

LM76 Linear Bearings

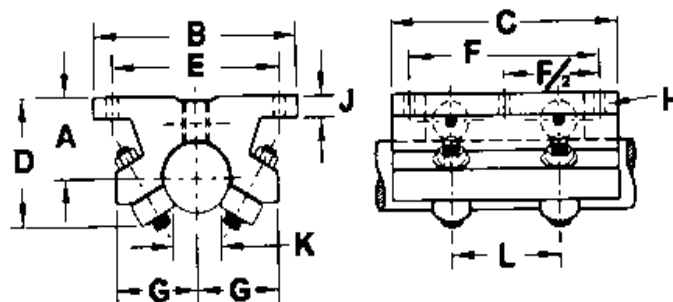


TABLE #3
DIMENSIONS & LOAD RATINGS FOR
TWIN PILLOW BLOCKS

MODEL #	SHAFT DIA.	DYN. LOAD	WGT.	±.003 A	B	C	D	E	F	G	BOLT HOLE		J	K	L
JRT-8-OPN	1/2	800	0.80	0.69	2	3-1/2	1-5/32	1.69	2.5	1	#6	5/32	0.24	5/16	1.500
JRT-10-OPN	5/8	1000	1.00	0.88	2-1/2	4	1-13/32	2.13	3	1-1/16	#8	3/16	0.27	3/8	2.125
JRT-12-OPN	3/4	1200	1.20	0.94	2-3/4	4-1/2	1-9/16	2.38	3.5	1-1/16	#8	3/16	0.30	7/16	2.500
JRT-16-OPN	1.0	1910	2.30	1.19	3-1/4	6	2	2.88	4.5	1-3/8	#10	7/32	0.36	11/16	3.750
JRT-20-OPN	1-1/4	2800	4.40	1.50	4	7-1/2	2-9/16	3.50	5.5	1-3/4	#10	7/32	0.42	13/16	4.625
JRT-24-OPN	1-1/2	3320	6.50	1.75	4-3/4	9	2-7/8	4.13	6.5	1-7/8	1/4	9/32	0.47	1-1/16	5.500
JRT-32-OPN	2.0	4800	12.40	2.13	6	12	3-1/2	5.25	10.5	2-1/2	3/8	13/32	0.60	1-3/8	8.250

Metric Single Sizes

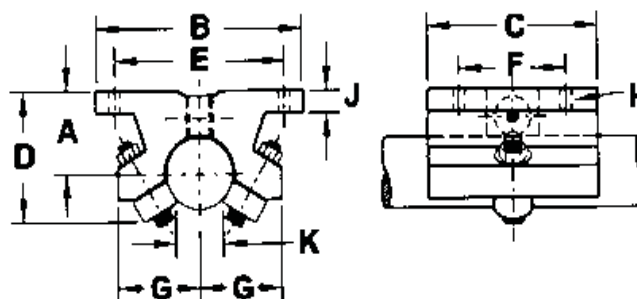


TABLE #4
DIMENSIONS & LOAD RATINGS FOR
METRIC SINGLE PILLOW BLOCKS

MODEL #	SHAFT DIA.	DYN. LOAD	WGT.	±.003 A	B	C	D	E	F	G	BOLT HOLE		J	K
JRMS-16-OPN	16 MM	500	0.50	0.877	2-1/2	1-3/4	1-13/32	2.125	1.125	15/16	#8	3/16	0.270	3/8
JRMS-20-OPN	20 MM	600	0.60	0.956	2-3/4	1-7/8	1-9/16	2.375	1.250	1-1/16	#8	3/16	0.300	7/16
JRMS-25-OPN	25 MM	955	1.00	1.179	3-1/4	2-5/8	2	2.875	1.750	1-3/8	#10	7/32	0.360	11/16
JRMS-30-OPN	30 MM	1400	2.00	1.465	4	3-3/8	2-9/16	3.500	2.000	1-3/4	#10	7/32	0.424	13/16

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Metric Double Sizes

LM76 Linear Bearings

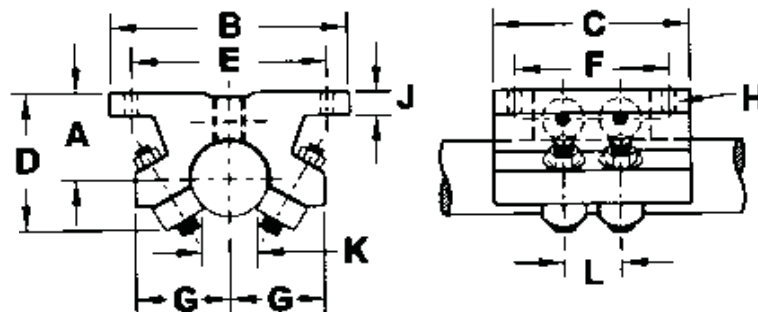
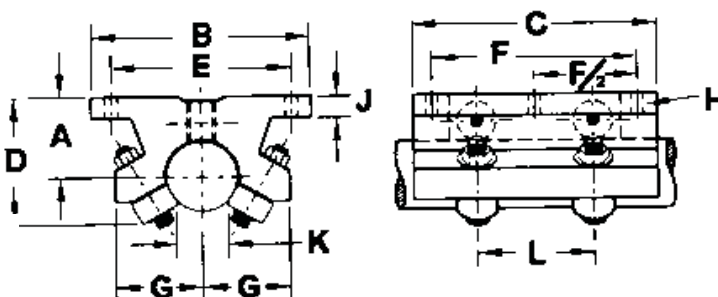


TABLE #5
DIMENSIONS & LOAD RATINGS FOR
METRIC DOUBLE PILLOW BLOCKS

MODEL #	SHAFT DIA.	DYN. LOAD	WGT.	A	B	C	D	E	F	G	BOLT HOLE		J	K	L
JRMD-16-OPN	16 MM	1000	0.7	0.877	2-1/2	2-1/2	1-13/32	2.125	2.000	15/16	#8	3/16	0.270	3/8	0.562
JRMD-20-OPN	20 MM	1200	0.8	0.956	2-3/4	2-5/8	1-9/16	2.375	1.250	1-1/16	#8	3/16	0.300	7/16	0.562
JRMD-25-OPN	25 MM	1910	1.2	1.179	3-1/4	2-5/8	2	2.875	1.750	1-3/8	#10	7/32	0.360	11/16	0.720
JRMD-30-OPN	30 MM	2800	3	1.465	4	3-3/8	2-9/16	3.500	2.000	1-3/4	#10	7/32	0.424	13/16	0.812



Metric Twin Sizes

TABLE #6
DIMENSIONS & LOAD RATINGS FOR
METRIC TWIN PILLOW BLOCKS

MODEL #	SHAFT DIA.	DYN. LOAD	WGT.	A	B	C	D	E	F	G	BOLT HOLE		J	K	L
JRMT-16-OPN	16 MM	1000	1	0.877	2-1/2	4	1-13/32	2.125	3.000	15/16	#8	3/16	0.270	3/8	2.125
JRMT-20-OPN	20 MM	1200	1.2	0.956	2-3/4	4-1/2	1-9/16	2.375	3.500	1-1/16	#8	3/16	0.300	7/16	2.500
JRMT-25-OPN	25 MM	1910	2.3	1.179	3-1/4	6	2	2.875	4.500	1-3/8	#10	7/32	0.360	11/16	3.750
JRMT-30-OPN	30 MM	2800	4.4	1.465	4	7-1/2	2-9/16	3.500	5.500	1-3/4	#10	7/32	0.424	13/16	4.625



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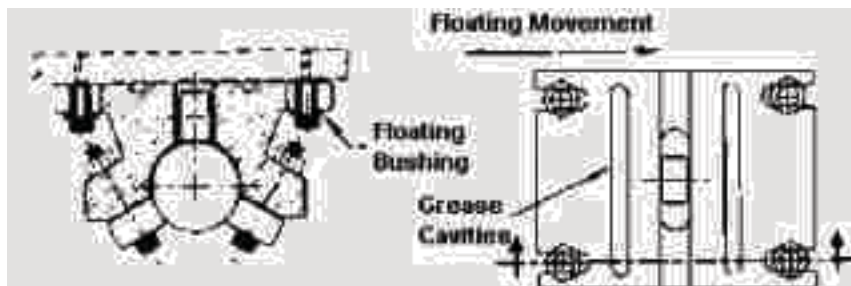


Our new High Temp bearings have been used in temperatures up to 200C (398F) and incorporate a high temperature grease typically used on oven conveyors or rotisseries. Developed around a specific high temperature application for a major corporation, JET Rail HT linear roller blocks have been operating successfully for over 2 years and have outlasted the original linear ball bearings by 6:1.



P/N	Description
JRS 8 OPN-HT	Single 1/2" Roller Block
JRD 8 OPN-HT	Double 1/2" Roller Block
JRT 8 OPN-HT	Twin 1/2" Roller Block
JRS 12 OPN-HT	Single 3/4" Roller Block
JRD 12 OPN-HT	Double 3/4" Roller Block
JRT 12 OPN-HT	Twin 3/4" Roller Block

JET Rail roller blocks are available with fixed and floating configurations. This patented option is the only product on the market that provides a real solution for shafting that is out of parallel. This option is particularly effective with long shaft runs that are inherently difficult to install with precision parallelism.



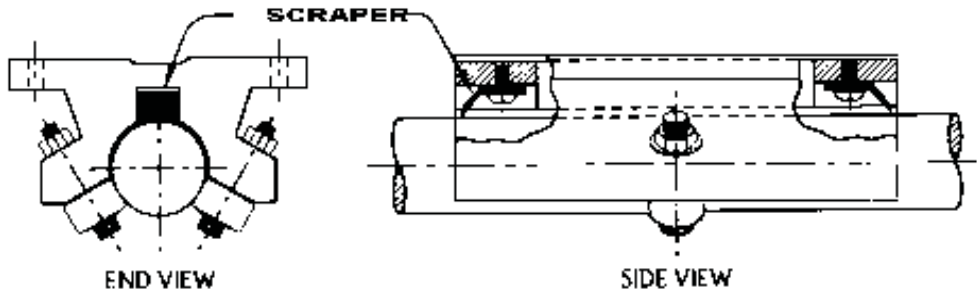
Roller Bearing Pillow Block Options

LM76 Linear Bearings

SCRAPER OPTION

When pillow blocks run in an environment where chips or sludge accumulate on the top of the linear shaft, select the "scraper option". The scraper is made from spring steel – tempered phosphor bronze and conforms to the shaft diameter. A scraper is mounted to each end of the bearing assembly which cleans the top of the shaft in either direction.

The "scraper option" requires a specially machined pillow block, and cannot be added as a retrofit to a pillow block originally ordered without this option. This option may temporarily increase resistance to motion, but after a short break-in period this increase will be insignificant.



To order the "scraper option", add the suffix "-S" after the pillow block model number.
For example SPB-16-OPN-S

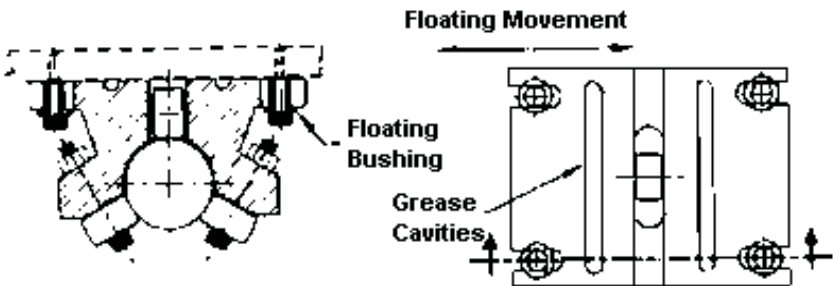
FLOATING OPTION

The floating option is available on all models of the Roller Bearing Pillow Block. This patented option is the only product on the market that provides a real solution for shafting that is out of parallel. This option is beneficial when trying to align long shafts, or when the system does not meet the required parallelism.

"Floating" pillow blocks should be used in conjunction with standard pillow blocks which ride on one shaft and the "floating" on the other shaft. On the top of each "floating" pillow block are two grooves which should be filled with the special grease that is supplied. When installing, care should be taken not to over tighten the mounting screws or bolts, causing the floating bushings to bind.

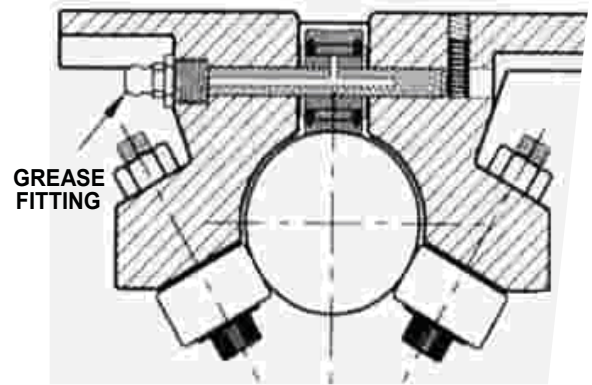
To order "floating" pillow blocks add the prefix "F" to the single, double, or twin bearing.
For example FSPB-16-OPN

Pillow Block Size	8,10,12	16	20,24	32	48,64
Floating Movement	1/16"	3/32"	1/8"	5/32"	3/16"



TOP GREASE OPTION

The LM76 Roller Bearing Pillow Block rollers are lubricated and sealed, but in some applications it is desired to re-grease the main support roller. The “top grease option” can help achieve full bearing life in applications that reduce or contaminant the grease inside the roller. Such Conditions may exist in applications where solvents or contaminants leach out the grease through the vents in the seals, or where contaminants are so fine or extreme that they must be purged out of the roller with fresh grease. The “top grease option” is also recommended when high speeds or extreme temperatures are present.



TOP GREASE OPTION DETAIL

To order the “top grease option”. Add the suffix “-TG” after the pillow block model number.
For Example SPB-24-OPN-TG. Available in 1-1/4” Pillow Blocks and larger.

PILLOW BLOCK REBUILD KITS

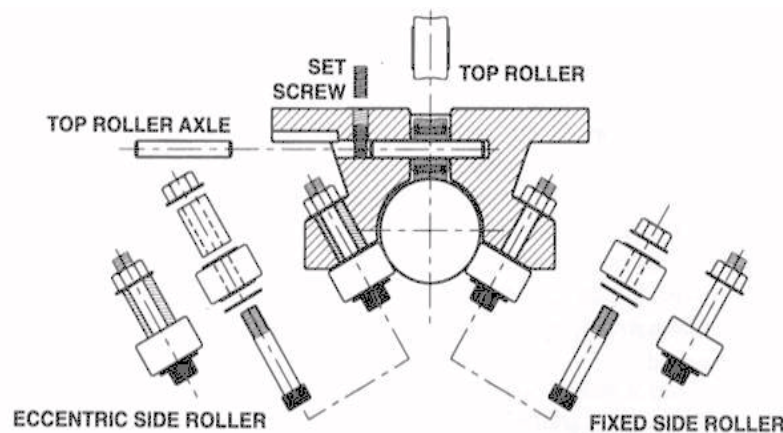
Rebuild kits for LM76 Roller Bearing Pillow Blocks are available with all the required parts to completely rebuild each unit. For single units order one kit. For Double or Twins, order two kits.

When ordering a rebuild kit, you must advise the factory of the run number that is stamped on the end face of the pillow block. This run number assures you will get the correct parts needed to rebuild your unit.

For example: #BK 16-1047.

This would be one kit for a 1” pillow block with a run number of 1047. Each kit contains one fixed side roller, one eccentric side roller, one top roller, one top roller axle and one set screw.

Individual Parts are also available. However, it is recommended when a pillow block is removed for parts replacement, all components should be replaced before the pillow block is re-installed.



REBUILD KIT	NOM DIA.	REBUILD KIT	NOM. DIA.
BK08	1/2"	BK20	1-1/4"
BK10	5/8"	BK24	1-1/2"
BK12	3/4"	BK32	2"
BK16	1"	BK48	3"



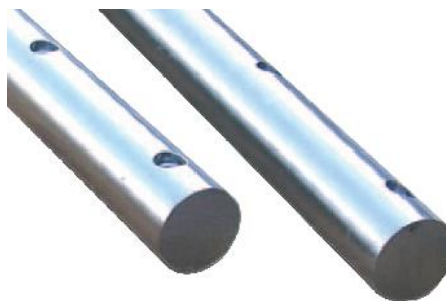
HARDENED AND PRECISION GROUND LINEAR SHAFTING

1060 STEEL CASE HARDENED AND PRECISION GROUND LINEAR SHAFTING								
NOMINAL DIA. (IN)	CLASS "L" DIA. (IN)	CLASS "S" DIA. (IN)	CLASS "D" DIA. (IN)	CLASS "N" DIA. (IN)	MIN. DEPTH OF 60-65 Rc (IN)	WEIGHT PER IN. (LBS/IN)	MAX LENGTH (FT)	NOMINAL DIA. (IN)
3/16	.1870/.1865	-	-	-	.027	.008	5	3/16
1/4	.2495/.2490	.2490/.2485	-	.2500/.2498	.027	.014	8	1/4
3/8	.3745/.3740	.3740/.3735	-	.3750/.3748	.027	.031	14	3/8
1/2	.4995/.4990	.4990/.4985	-	.5000/.4998	.040	.055	14	1/2
5/8	.6245/.6240	.6240/.6235	-	.6250/.6248	.040	.086	15	5/8
3/4	.7495/.7490	.7490/.7485	-	.7500/.7498	.060	.125	15 or 17*	3/4
7/8	.8745/.8740	-	-	.8750/.8748	.060	.170	15	7/8
1	.9995/.9990	.9990/.9985	1.0000/1.003	1.0000/.9998	.060	.222	15 or 17*	1
1-1/8	1.1245/1.1240	-	-	1.1250/1.1248	.080	.281	15	1-1/8
1-1/4	1.2495/1.2490	1.2490/1.2485	1.2500/1.2503	1.2500/1.2498	.080	.348	17	1-1/4
1-3/8	1.3745/1.3740	-	-	1.3750/1.3747	.080	.420	15	1-3/8
1-1/2	1.4994/1.4989	1.4989/1.4984	1.5000/1.5003	1.5000/1.4997	.080	.500	17	1-1/2
1-5/8	1.6245/1.6240	-	-	1.6250/1.6247	.080	.587	15	1-5/8
1-3/4	1.7495/1.7490	-	-	1.7500/1.7497	.100	.681	15	1-3/4
2	1.9994/1.9987	1.9987/1.9980	2.0000/2.0003	2.0000/1.9997	.100	.890	17	2
2-1/2	2.4993/2.4985	2.4985/2.4977	-	2.5000/2.4996	.100	1.391	17	2-1/2
3	2.9992/2.9983	2.9983/2.9974	-	3.0000/2.9996	.100	2.003	15 or 17*	3
3-1/2	3.4990/3.4980	-	-	-	.100	2.726	17	3-1/2
4	3.9988/3.9976	3.9976/3.9964	-	-	.100	3.560	17	4

440C STAINLESS STEEL CASE HARDENED AND PRECISION GROUND LINEAR SHAFTING							
NOMINAL DIA. (IN)	CLASS "L" DIA. (IN)	CLASS "S" DIA. (IN)	MIN. DEPTH OF 50-60 Rc (IN)	WEIGHT PER IN. (LBS/IN)	MAX LENGTH (FT)	NOMINAL DIA. (IN)	
1/4	.2495/.2490	.2490/.2485	.027	.014	5	1/4	
3/8	.3745/.3740	.3740/.3735	.027	.031	14	3/8	
1/2	.4995/.4990	.4990/.4985	.040	.055	14	1/2	
5/8	.6245/.6240	.6240/.6235	.040	.086	14	5/8	
3/4	.7495/.7490	.7490/.7485	.060	.125	15 or 17*	3/4	
1	.9995/.9990	.9990/.9985	.080	.222	15 or 17*	1	
1-1/4	1.2495/1.2490	1.2490/1.2485	.080	.348	17	1-1/4	
1-1/2	1.4994/1.4989	1.4989/1.4984	.080	.500	17	1-1/2	
2	1.9994/1.9987	1.9987/1.9980	.100	.890	17	2	
2-1/2	2.4993/2.4985	2.4985/2.4977	.100	1.391	17	2-1/2	

NOTES:

- (*) 17 FT. LENGTHS AVAILABLE IN CLASS "L" ONLY
- 303 AND 316 STAINLESS STEEL (UNHARDENED CLASS "L") AVAILABLE UPON REQUEST
- CUSTOM LINEAR SHAFTING INQUIRES CAN BE FAXED OR EMAILED TO: 413-525-3735 mquinn@LM76.com



HARDENED AND PRECISION GROUND PRE-DRILLED SHAFTING

1060 STEEL CASE HARDENED AND PRECISION GROUND PREDRILLED LINEAR SHAFTING

NOMINAL DIA. (IN)	CLASS "L" DIA. (IN)	STANDARD THREAD SIZE	X (IN)	Y (IN)	MIN. DEPTH OF 60-65 Rc (IN)	WEIGHT PER IN. (LBS/IN)	MAX LENGTH (IN)	NOMINAL DIA. (IN)
1/2	.4995/.4990	#6-32	4	2	.040	.055	166	1/2
5/8	.6245/.6240	#8-32	4	2	.040	.086	178	5/8
3/4	.7495/.7490	#10-32	6	3	.060	.125	178	3/4
1	.9995/.9990	1/4-20	6	3	.080	.222	178	1
1-1/4	1.2495/1.2490	5/16-18	6	3	.080	.348	178	1-1/4
1-1/2	1.4994/1.4989	3/8-16	8	4	.080	.500	178	1-1/2
2	1.9994/1.9987	1/2-13	8	4	.100	.890	178	2

440C STAINLESS STEEL CASE HARDENED AND PRECISION GROUND PREDRILLED LINEAR SHAFTING

NOMINAL DIA. (IN)	CLASS "L" DIA. (IN)	STANDARD THREAD SIZE	X (IN)	Y (IN)	MIN. DEPTH OF 50-60 Rc (IN)	WEIGHT PER IN. (LBS/IN)	MAX LENGTH (IN)	NOMINAL DIA. (IN)
1/2	.4995/.4990	#6-32	4	2	.040	.055	166	1/2
5/8	.6245/.6240	#8-32	4	2	.040	.086	178	5/8
3/4	.7495/.7490	#10-32	6	3	.060	.125	178	3/4
1	.9995/.9990	1/4-20	6	3	.080	.222	178	1
1-1/4	1.2495/1.2490	5/16-18	6	3	.080	.348	178	1-1/4
1-1/2	1.4994/1.4989	3/8-16	8	4	.080	.500	178	1-1/2
2	1.9994/1.9987	1/2-13	8	4	.100	.890	178	2

52100 STEEL CASE HARDENED AND PRECISION GROUND TUBULAR LINEAR SHAFTING

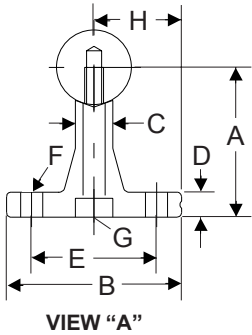
NOMINAL DIA. (IN)	NOMINAL I.D. (IN)	CLASS "L" DIA. (IN)	CLASS "S" DIA. (IN)	MIN. DEPTH OF 58 Rc (IN)	WEIGHT PER IN. (LBS/IN)	MAX LENGTH (FT)	NOMINAL DIA. (IN)
3/4	.438 ± 5%	.7495/.7490	.7490/.7485	.060	.075	15	3/4
1	.599 ± 5%	.9995/.9990	.9990/.9985	.060	.158	15	1
1-1/2	.890 ± 5%	1.4994/1.4989	1.4989/1.4984	.080	.328	15	1-1/2
2	1.250 ± 5%	1.9994/1.9987	1.9987/1.9980	.100	.542	15	2
2-1/2	1.750 ± 5%	2.4993/2.4985	2.4985/2.4977	.100	.749	15	2-1/2
3	2.000 ± 10%	2.9992/2.9983	2.9983/2.9974	.100	1.112	15	3
4	3.000 ± 10%	3.9988/3.9976	3.9976/3.9964	.100	1.558	15	4

NOTES:

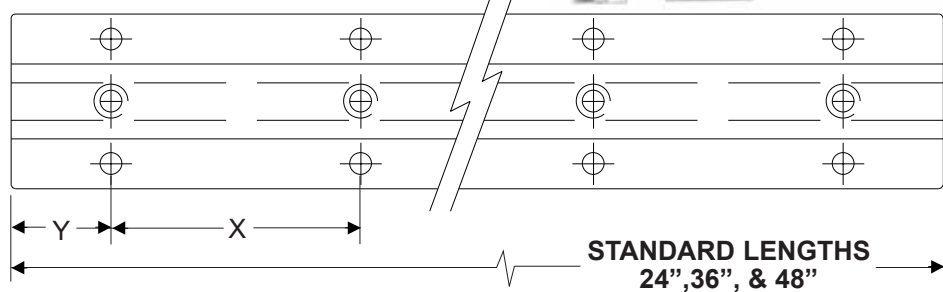
- CUSTOM PREDRILLED OR TUBULAR LINEAR SHAFTING INQUIRES CAN BE FAXED OR EMAILED TO: 413-525-3735 mquinn@LM76.com



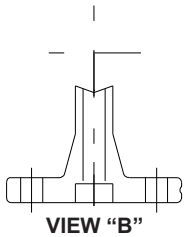
SHAFT SUPPORT ASSEMBLIES



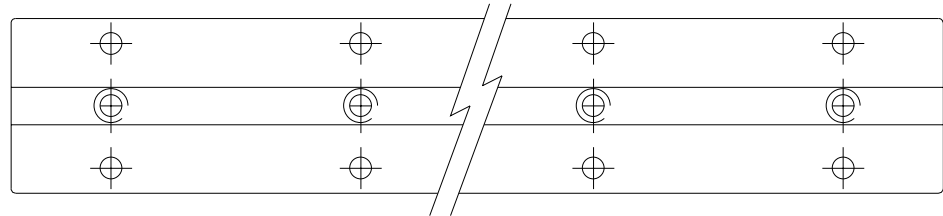
VIEW
"A"



PREDRILLED SHAFT SUPPORT RAILS



VIEW
"B"



SHAFT DIA.	SHAFT SUPPORT ASSEMBLY	PREDRILLED SHAFT SUPPORT RAIL	*PLAIN SHAFT SUPPORT RAIL	A +/- .001	B	C	D	E +/- .005
1/2	LMSA-8	SR-8-PD	SMR-8	1.125	1-1/2	1/4	3/16	1.000
5/8	LMSA-10	SR-10-PD	SMR-10	1.125	1-5/8	5/16	1/4	1.125
3/4	LMSA-12	SR-12-PD	SMR-12	1.500	1-3/4	3/8	1/4	1.250
1	LMSA-16	SR-16-PD	SMR-16	1.750	2-1/8	1/2	1/4	1.500
1-1/4	LMSA-20	SR-20-PD	SMR-20	2.125	2-1/2	9/16	5/16	1.875
1-1/2	LMSA-24	SR-24-PD	SMR-24	2.500	3	11/16	3/8	2.250
2	LMSA-32	SR-32-PD	SMR-32	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 1-1/4	.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

NOTES:

- (*) DOES NOT INCLUDE ANY HOLES IN SHAFT SUPPORT
 - (**) LMSA-24-PD-36" & SMR-32-PD-36" (Y=2")
 - MANUFACTURED FROM EXTRUDED 6061-T6 ALUMINUM FOR ENGINEERED PERFORMANCE
- CUSTOM SHAFT SUPPORT AND ASSEMBLY INQUIRES CAN BE FAXED OR EMAILED TO: 413-525-3735 mquinn@LM76.com

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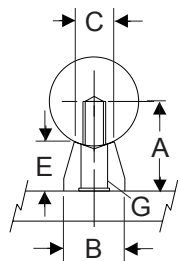
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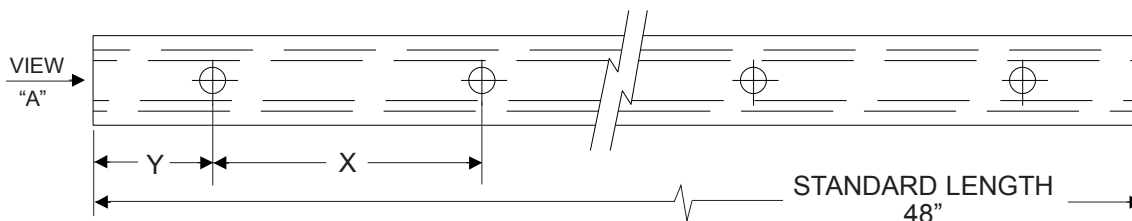
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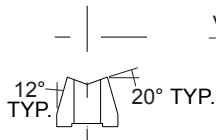
LOW SHAFT SUPPORT ASSEMBLIES



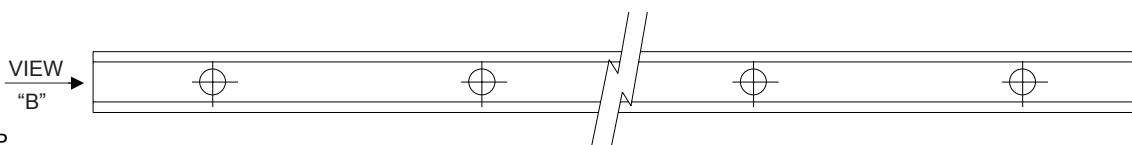
VIEW "A"



PRE-DRILLED LOW SHAFT SUPPORT RAILS



VIEW "B"



MATERIAL: STEEL OR ALUMINUM

Suffix for Aluminum A

Suffix for Steel S

SHAFT DIA.	SHAFT SUPPORT ASSEMBLY	PREDRILLED SHAFT SUPPORT RAIL	*PLAIN SHAFT SUPPORT RAIL	A +/- .001	B	C
1/2	LSRA-8	LSR-8-PD	LSR-8	.562	.370	1/4
5/8	LSRA-10	LSR-10-PD	LSR-10	.687	.450	5/16
3/4	LSRA-12	LSR-12-PD	LSR-12	.750	.510	3/8
1	LSRA-16	LSR-16-PD	LSR-16	1.000	.690	1/2
1-1/4	LSRA-20	LSR-20-PD	LSR-20	1.187	.780	9/16
1-1/2	LSRA-24	LSR-24-PD	LSR-24	1.375	.930	11/16
2	LSRA-32	LSR-32-PD	LSR-32	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

NOTES:

- (*) DOES NOT INCLUDE ANY HOLES IN SHAFT SUPPORT
- CUSTOM SHAFT SUPPORT AND ASSEMBLY INQUIRES CAN BE FAXED OR EMAILED TO: 413-525-3735 mquinn@LM76.com

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HARDENED AND PRECISION GROUND METRIC LINEAR SHAFTING

1060 STEEL CASE HARDENED AND PRECISION GROUND METRIC LINEAR SHAFTING					
NOMINAL DIA. (MM)	TOLERANCES CLASS "M" (h6) (IN)	MIN. DEPTH OF 60-65 Rc (MM)	WEIGHT PER IN. (LBS/IN)	MAX LENGTH (MM)	NOMINAL DIA. (MM)
5	.1969/.1965	0.4	.008	3600	5
6	.2362/.2359	0.4	.012	4000	6
8	.3150/.3146	0.4	.022	4000	8
10	.3937/.3933	0.4	.034	4000	10
12	.4724/.4720	0.6	.050	6000	12
14	.5512/.5507	0.6	.068	6000	14
15	.5906/.5901	0.6	.076	6000	15
16	.6299/.6295	0.6	.088	6000	16
18	.7087/.7082	0.6	.111	6000	18
20	.7874/.7869	0.9	.137	6000	20
24	.9449/.9444	0.9	.198	6000	24
25	.9843/.9838	0.9	.214	6000	25
30	1.1811/1.1806	0.9	.308	6000	30
35	1.3780/1.3773	1.5	.419	6000	32
40	1.5748/1.5743	1.5	.548	6000	40
50	1.9685/1.9679	1.5	.855	6000	50
60	2.3622/2.3615	2.2	1.23	6000	60
80	3.1496/3.1489	2.2	2.19	6000	80

440C STAINLESS STEEL CASE HARDENED AND PRECISION GROUND METRIC LINEAR SHAFTING					
NOMINAL DIA. (MM)	TOLERANCES CLASS "M" (h6) (IN)	MIN. DEPTH OF 50-60 Rc (MM)	WEIGHT PER IN. (LBS/IN)	MAX LENGTH (MM)	NOMINAL DIA. (MM)
5	.1969/.1965	0.4	.008	3600	5
8	.3150/.3146	0.4	.022	4000	8
10	.3937/.3933	0.4	.034	4000	10
12	.4724/.4720	0.6	.050	6000	12
16	.6299/.6295	0.6	.088	6000	16
20	.7874/.7869	0.9	.137	6000	20
25	.9843/.9838	0.9	.214	6000	25
30	1.1811/1.1806	0.9	.308	6000	30
40	1.5748/1.5743	1.5	.548	6000	40
50	1.9685/1.9679	1.5	.855	6000	50
60	2.3622/2.3615	2.2	1.23	6000	60

NOTES:

- PREDRILLED AND ASSEMBLED METRIC LINEAR SHAFTING AVAILABLE UPON REQUEST
- CUSTOM METRIC LINEAR SHAFTING INQUIRES CAN BE FAXED OR EMAILED TO: 413-525-3735 mquinn@LM76.com

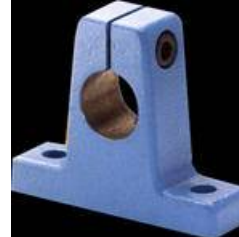
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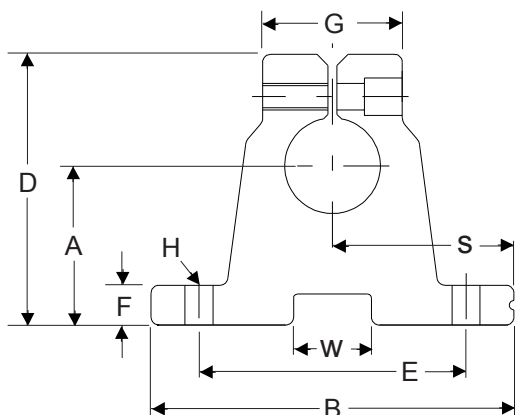


Aluminum = A



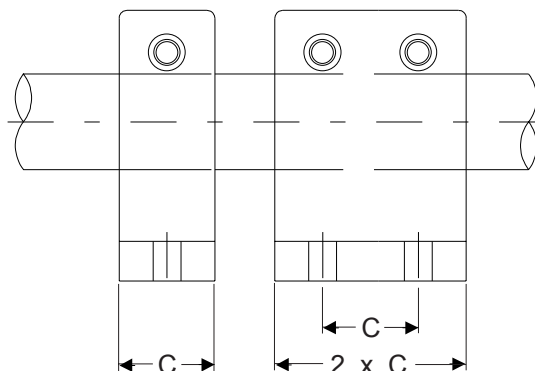
Steel = S

STANDARD AND EXTRA RIGID SHAFT END SUPPORTS



STANDARD

EXTRA RIGID



SHAFT DIA.	STANDARD SHAFT END SUPPORT	EXTRA RIGID SHAFT END SUPPORT	A +/- .001	B	C	D	E +/- .005
1/4	LMSB-4-A or S	RSB-4	.750	1-5/8	9/16	1-3/16	1.250
3/8	LMSB-6-A or S	RSB-6	.750	1-5/8	9/16	1-3/16	1.250
1/2	LMSB-8-A or S	RSB-8	1.000	2	5/8	1-5/8	1.500
5/8	LMSB-10-A or S	RSB-10	1.000	2-1/2	11/16	1-3/4	1.875
3/4	LMSB-12-A or S	RSB-12	1.250	2-3/4	3/4	2-1/8	2.000
1	LMSB-16-A or S	RSB-16	1.500	3-1/4	1	2-9/16	2.500
1-1/4	LMSB-20-A or S	RSB-20	1.750	4	1-1/8	3	3.000
1-1/2	LMSB-24-A or S	RSB-24	2.000	4-3/4	1-1/4	3-1/2	3.500
2	LMSB-32-A or B	RSB-32	2.500	6	1-1/2	4-1/2	4.500

SHAFT DIA.	F	G	H BOLT	H HOLE	S +/- .001	*W +.00/- .01	T
1/4	1/4	11/16	6	5/32	.812	1/4	1/8
3/8	1/4	11/16	6	5/32	.812	1/4	1/8
1/2	1/4	3/4	8	3/16	1.000	1/2	3/16
5/8	5/16	7/8	10	7/32	1.250	1/2	3/16
3/4	5/16	1	10	7/32	1.375	5/8	1/4
1	3/8	1-3/8	1/4	9/32	1.625	5/8	1/4
1-1/4	7/16	1-3/4	5/16	11/32	2.000	5/8	1/4
1-1/2	1/2	2	5/16	11/32	2.375	3/4	5/16
2	5/8	2-5/8	3/8	13/32	3.000	1	3/8

NOTES:

- (*) THE DIMENSION "W" IS NOT MACHINED (PROVISION CAN BE MADE FOR THIS DIMENSION TO BE MACHINED)
- MANUFACTURED FROM EXTRUDED 6061-T6 ALUMINUM FOR ENGINEERED PERFORMANCE
- CUSTOM SHAFT END SUPPORTS INQUIRES CAN BE FAXED OR EMAILED TO: 413-525-3735 mquinn@LM76.com

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Home of the MINUTEMAN Linear/Rotary Bearing

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Founded in 1938, J.C. Tarbell Associates was one of the first exclusive regional distributors for Chrysler's oil impregnated bronze bearing line - a technological innovation at the time. Over the past 60 years, Tarbell has engineered this material into every product conceivable from sewing machines to jet engines. Today, Tarbell supplies engineering expertise, standard products and machined specials to companies throughout the world.

LM76

Founded in 1976, LM76 found its genesis in combating traditional problems which plagued linear ball bushings: mechanical cage/ball failure and shaft brinelling or grooving. LM76's response was their ceramic coated, direct drop-in replacement linear bearing line which was hailed as a genuine innovation by engineers and maintenance personnel alike. LM76's latest product innovation is its **MINUTEMAN Self Lubricating Linear/Rotary bearing line**. This line offers outstanding load carrying capability coupled with a remarkably low coefficient of friction.

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