

Parts Now Available In New **B-I** LEAD-FREE Bronze!



MAGNOLIA

Now Up To 34" O.D.



LARGE BEARINGS: MACHINED BLANKS OR FINISHED TO PRINT

10675 Bedford Avenue, Suite 200, Omaha, Nebraska 68134
Toll Free: 1-800-228-4043 • www.magnoliabronze.com

MAGNOLIA BRONZE: CAST IN STEEL

ORDER WITH CONFIDENCE SAVE TIME, MONEY.

Magnolia semi-finished bronze bushings and bearings, cast in steel molds, are available in sizes and combinations ranging from 12" (continuous cast up to 12") to 34" O.D. By ordering Magnolia semi-finished machined bronze to your size, you will save 15 to 35% of purchase weight over rough cast. Requiring only a finish cut to clean, you cut machine time in half and eliminate 100% of your rejects.

Magnolia's semi-finished or rough machined (flat size) parts are guaranteed to machine in your shop to your exact finished sizes. Magnolia rough machine sizes already include an 1/8" overage on each dimension, above the finished size. When ordering Magnolia semi-finished parts, using your finished dimensions, you are assured enough material to clean to your requested size.

THE MAGNOLIA ADVANTAGE QUALITY



CONSISTENCY AND QUALITY guaranteed by using our Jarrell-Ash® Atom Computer 7000 Spectrometer.

Laboratory Tests Prove It! CDA 936 Superior to CDA 932.

Tests conducted by a national laboratory verify that Magnolia CDA 936 consistently out performs CDA 932 (SAE 660) under the most difficult conditions in test after test.

The bearings were run with inadequate lubrication until temperatures exceeded 400° F. Under these severe conditions, in some instances the CDA 932 wore out three times faster than CDA 936. In **no** test did CDA 932 out perform CDA 936.

Newly completed tests by a major university also prove that Magnolia's CDA 936 alloy has a significantly higher failure resistance than CDA 932. Despite extreme circumstances, operating starved of lubrication, CDA 936 ran an average of 78% longer than CDA 932, and with none of the incidents of severe shaft scoring found among the CDA 932 tests.

CDA 936 *BECAUSE:*

- Higher lead content gives better lubricating properties and provides better co-efficient of friction. Bearings run cooler, last longer.
- Lower in zinc, CDA 936 machines 13% more freely than CDA 932.
- One and a half times as resistant to pounding.
- Acid resisting to sulphite fluids due to lower zinc CDA 936 can be used in areas where CDA 932 would corrode.

SERVICE



INVENTORY: Magnolia maintains over 2 million pounds of steel-cast and continuously cast inventory specifically to handle RUSH and BREAKDOWN situations. We built our reputation on service.

Bushings For: PRESSES-MINING EQUIPMENT- MIXERS-CRUSHERS-REFINERS-RUBBER MILLS-COMPRESSORS

Whatever your bronze needs, Magnolia stands ready to respond. Maintaining a large inventory and wide range of sizes in stock enables Magnolia to act immediately in a critical delivery situation.

With the elimination of patterns, core boxes and costly rejects, your savings on replacement parts are considerable. Combine that with Magnolia's computerized costing system, upgraded machining equipment and our own foundry, and see why we provide among the most competitive prices in the industry.

Typical Physical Characteristics				
	TENSILE STRENGTH	YIELD POINT	BRINELL	ELONGATION IN 2"
CDA 936	35,000 psi	21,000 psi	65	15
CDA 932	35,000 psi	18,000 psi	65	15

Chemical Composition				
	COPPER	TIN	LEAD	ZINC
CDA 936	79-83%	6-8%	11-13%	<1%
CDA 932	81-85%	6-7.5%	6-8%	2-4%



MAGNOLIA

CALL: 800-228-4043



QUALITY CONTROL:

Parts are closely inspected to insure and maintain your standard of excellence.

METAL ALLOWANCES

Inside Diameter:

Up to 7" - 1/16" (1/32" cut)

7 1/8" I.D. and over - 1/8" (1/16" cut)

Outside Diameter:

Up to 8" + 1/16" (1/32" cut)

8 1/8" O.D. and over + 1/8" (1/16" cut)

Bars ordered rough-machined to exact sizes specified for special manufacture are machined to + or - 1/32" all over and are referred to by us as "flat sizes."



MAGNOLIA GUARANTEES NO REJECTS

Magnolia Bronzes are guaranteed to be free from all defects. In Magnolia Bronze there are no blow-holes, no sand spots, no segregated elements, no flaws...no under-surface faults of any kind to cause rejection.

In accordance with industry practices, guarantee is limited to free replacement of material returned. But why just "hope" to get a good casting? Magnolia's quality control procedure has resulted in returns of **less than 1/2 of 1%** of all bronze shipped over the last 10 years. This standard of excellence combined with our special alloy and our unique casting process assures you of the best possible value in bearing bronze.

MAGNOLIA ALSO MAKES:

- Continuous Cast Bronze up to 12 1/2" O.D. Lengths up to 144"
- Completely Finished Bronze parts from 1" to 34" O.D.
- Lead and tin base babbitts

SPECIAL ALLOYS:

Magnolia also casts and carries CDA 937 (Cert 64), #120 High Lead Bronze (20% lead) similar to an SAE 67 Alloy, AA Hard or CDA 903 and SAE 63. In addition to these standard alloys, Magnolia is capable of casting most tin bronzes and leaded tin bronzes on a special order basis. We will be glad to quote promptly.

1886



TODAY



Manufactured by

Magnolia Metal Corporation

Toll Free: 1-800-228-4043 • Fax: 402-455-8762

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