



MAXAM® BEARINGS

The Problem Solver

MAXAM Continuously Earns Its 'Rep'



When you are marketed as and have a 35+ year reputation as a “*Problem Solver*”, like the MAXAM Bearing, you are constantly solving the most difficult customer issues.

A Midwest alloys manufacturer was having bearing issues with the original bearings provided with their OEM equipment.

They have two 15-foot-long tilt cylinders on a furnace with two needle bearings on each. The environment is hot with a lot of dust contaminant. Compounding the problem was the location and design which wasn't conducive to frequent lubrication.

The needle bearings would bind then fail, causing the furnace shell to grind into the cylinder ears. This was resulting in the cylinders having to be changed out and refurbished every 5 months. This was costly from a maintenance standpoint, but also resulted in downtime and thus lost production.

Engineering researched potential replacement bearings which would perform better in this extreme environment. They came across MAXAM bearings and ordered some for trial in late 2015.

The MAXAM design was a plain two-piece with no rolling elements. The MAXAM material provides for a bearing operating temperature rating of 650F. This was determined to be sufficient, although a MAXAM high-temperature version would provide an operating temperature rating of up to 1,100F, if needed. Also, the design, having no rolling elements, eliminated the dust contaminants being an operating issue.

An additional benefit to the MAXAM design provided for over 70% more dynamic and static load rating than the roller bearing design which it was replacing.

The infrequent lubrication issue proved not to be a problem. Although a friction-type bearing design, the MAXAM's very hard, smooth surface allows the bearing to spin freely even without much lube.

The MAXAM bearings which were initially trialed lasted well over a year before they removed the cylinders to refurbish. Some of the bearings were cleaned up and re-installed.

Problem solved!! And is usually the case, the customer soon found another application

for another style MAXAM bearing in another part of the plant.

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