

Success Story

Industry: Cement

Application: Slurry Pump

Cost Savings: € 51 476

Introduction

A cement plant in the US was experiencing premature bearing failures due to a contamination in their slurry pumps. Bearings were only lasting two to three months causing frequent downtime and high maintenance costs. NSK was contacted to evaluate the problem and the NSK engineers suggested an improved bearing design together with a recommendation to increase bearing fitting standards. After the implementation bearing life was doubled.

Key Facts

- Slurry pump
- Premature bearing failure
- NSK solution: ACBB with HTF material followed by a training on installation and maintenance of bearings
- Increased lifetime
- Significant cost saving realised



↑ Concrete Plant

Value Proposals

- NSK experts performed an Application Review
- The review show that the used bearing was failing due to contamination
- NSK recommended to use ACBB with HTF material
- With the new bearing, the lifetime was doubled
- Training was provided on improved installation and maintenance of bearings

Product Features

- Angular Contact Ball Bearing with special HTF steel
- Innovative heat treatment technology
- Outperforming standard bearing steel



↑ Angular Contact Ball Bearing with special HTF Steel

Cost Saving Breakdown

Before	Cost p.a.	NSK Solution	Cost p.a.
 Total bearing cost	96 916 €	Total bearing cost	42 940 €
 No formal training	0 €	Training for the maintenance team	2 500 €
Total Costs	€ 96 916		€ 45 440