

Success Story

Industry: Paper

Application: Paper Roll

Cost Savings: € 600 000

Introduction

A paper mill in the US was facing frequent bearing failures on a Nip Roll. The bearing failed after just 1 year of service, which created a high cost of lost production together with significant maintenance issues.

Key Facts

- Nip roll
- Frequent paper roll issues due to bearing failures
- NSK solution: Spherical Roller bearing with improved clearance and interference fit together with set-up recommendations
- Significant cost saving realised



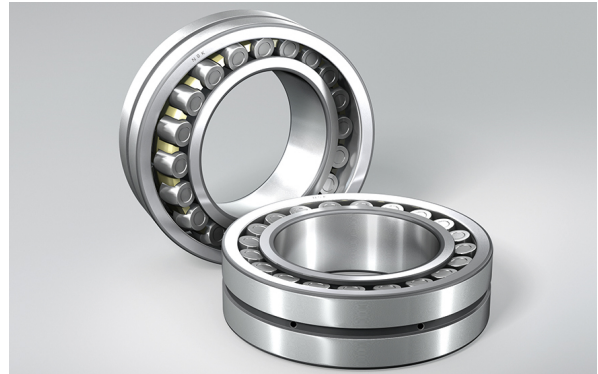
↑ Paper Rolls

Value Proposals

- NSK experts performed an Application Review revealing an inappropriate bearing design
- NSK proposed a replacement with a Spherical Roller bearing utilising improved internal clearance and recommendations on shaft and housing fits to achieve this
- After the installation of the new bearing and applying the changes to the application, no failures occurred
- Significant cost saving could be realised as machine downtime and maintenance have been eliminated

Product Features

- Special dimension large size Spherical Roller Bearing
- High load capacity, super durability and wear resistance
- High surface finish for high speed applications
- Brass cage with large rollers for greater load capacity



↑ Spherical Roller Bearings - CAM Cage

Cost Saving Breakdown

Before	Cost p.a.	NSK Solution	Cost p.a.
 12 hrs downtime per failure occurring 2-3 times per year @ cost of 20.000 € per hr	€ 600 000	No failures occurred	€ 0
Total Costs	€ 600 000		€ 0