

Success Story

Industry: Textile and Leather

Application: Belt washer

Cost Savings: € 9 000

Introduction

An international manufacturer of technical textile products was experiencing frequent bearing failure on a belt wash application. NSK carried out a Bearing Failure Analysis revealing ingress of water and chemicals leading to the bearing failures. NSK was asked to find a solution to this problem. A trial was agreed which resulted in an increase of bearing life.

Key Facts

- High volume belt cleaning and impregnation line
- Water ingress
- NSK's solution: replacing standard ball bearing with NSK's Molded-Oil ball bearing
- No bearing failures for more than 12 months
- Productivity improvement
- Cost saving generated



↑ Belt washing application

Value Proposals

- NSK engineering conducted a Bearing Failure Analysis showing ingress of water and chemicals into the bearing
- NSK required to replace the standard ball bearings with ball bearings Molded-Oil
- A trial was agreed which resulted in an increase of bearing life from 3 months to over 12 months
- The customer benefited from increased productivity and reduced maintenance costs
- No need for re-lubrication

Product Features

- Available for high speed applications
- Available in Ball Bearing, Spherical Roller Bearing and Tapered Roller Bearing types
- Rust-proof - Stainless steel for corrosive environments
- Ideal for applications where contact with liquids and chemicals is unavoidable
- Seals made from nitrile rubber
- Contact-seal type available in standard inventory for ball bearings
- Able to minimise oil leakage
- Longer service life
- No need for re-lubrication
- Smooth rotation of rolling elements



↑ Molded-Oil Bearing

Cost Saving Breakdown

Before	Cost p.a.	NSK Solution	Cost p.a.
 Re-lubrication	€ 1.200	No re-lubrication	€ 0
 Cost of maintenance	€ 7.800	No cost of maintenance	€ 0
Total Costs	€ 9 000		€ 0