

Success Story

Industry: Food and Beverage

Application: Conveyor

Cost Savings: € 9 315

Introduction

A German vegetable-processing company was experiencing repeated ball bearing failures on one of its transport systems. NSK was commissioned to investigate the problem. During the investigation it was determined that a large amount of water was entering the bearings and washing out the grease fill. Therefore, NSK suggested the use of sealed, corrosion-resistant Molded-Oil Bearings, thus increasing the bearing life from approximately 2 weeks to over 9 months.

Key Facts

- Conveyor Belt
- Processing of vegetables (foodstuffs)
- Frequent failure of the standard bearings
- Service life of the standard bearings only 2 weeks
- Increased service life required
- NSK solution: Molded-Oil Bearings
- Result: Bearing lifetime increased from 2 weeks to over 9 months



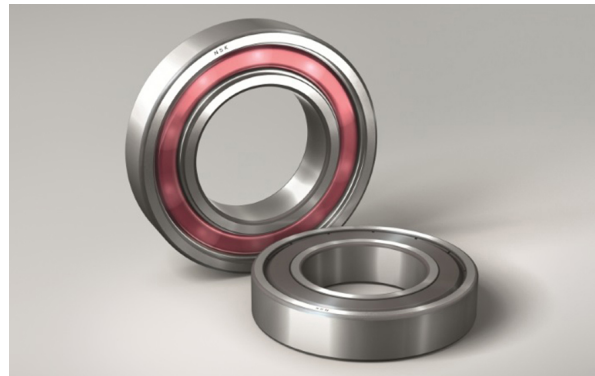
↑ Conveyor Belt

Value Proposals

- The investigation carried out by NSK revealed that severe water ingress was causing problems (grease being washed out of the bearings)
- Use of corrosion-resistant Molded-Oil bearings
- Service life was significantly increased
- Cost saving realised

Product Features

- Molded-Oil provides continuous supply of lubrication oil
- Stainless steel for corrosive environments
- Grease-free property with no oil refilling keeps operating environments clean
- Operating life more than twice as long as grease lubrication, in water or dustcontaminated environments
- Contact-seal type available in standard inventory for ball bearings
- Achieves extended maintenance-free performance as Molded-Oil provides a continuous supply of lubricant. Available for high speed applications
- Available in ball bearing, spherical roller bearing and tapered roller bearings types



↑ Molded-Oil Bearings

Cost Saving Breakdown

Before	Cost p.a.	NSK Solution	Cost p.a.
 Costs for Lubrication	€ 6.377	No Lubrication costs	€ 0
 Costs for mounting and dismounting the bearings	€ 2.938	No costs for mounting and dismounting of the bearings	€ 0
Total Costs	€ 9 315		€ 0