

Success Story

Industry: Food and Beverage

Application: Main Make-Up Conveyor

Cost Savings: € 27 141

Introduction

A customer was experiencing repeated bearing failures in conveyor rollers on the Main Make-Up conveyor within a bakery. They were changing approximately 36 bearings annually and bearing failures were taking place at about 6 week intervals. Investigations by NSK showed the failures were caused by the ingress of water and hard particulates. NSK recommended to replace the standard bearings with NSK Molded-Oil bearings. A trial was implemented and since commissioning, no failure have occurred in 2 years, resulting in a significant cost saving.

Key Facts

- Frequent bearing failure resulting in approximately 36 bearings being replaced annually
- Significant number of man hours needed to replace failed bearings
- Substantial machine down time leading to costly loss of production
- NSK solution, Molded-Oil ball bearings
- Productivity improvement
- Cost saving realised

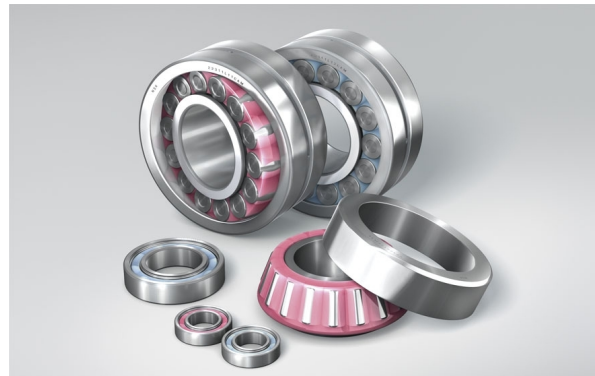


Value Proposals

- NSK Application Review determined the bearings had failed due to the absence of lubrication and ingress of water and hard particulates
- Having completed the review NSK recommended the use of Molded-Oil ball bearings
- A trial using Molded-Oil ball bearings was implemented
- The trial resulted in a substantial increase in bearing life and reduction of machine down time.




Product Features

- Molded-Oil provides continuous supply of lubrication oil
- 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
- Stainless steel for corrosive environments.



↑ NSK Molded-Oil Bearings

Cost Saving Breakdown

Before	Cost p.a.	NSK Solution	Cost p.a.
 Previously used ball bearings	€ 150	NSK Molded-Oil ball bearings	€ 99
 8,6 hrs at € 3.125/hr	€ 26.875	No downtime	€ 0
 8,6 hrs at € 25/hr	€ 215	No service required	€ 0
Total Costs	€ 27 240		€ 99