

Success Story

Industry: Food and Beverage

Application: Pick & Place Unit

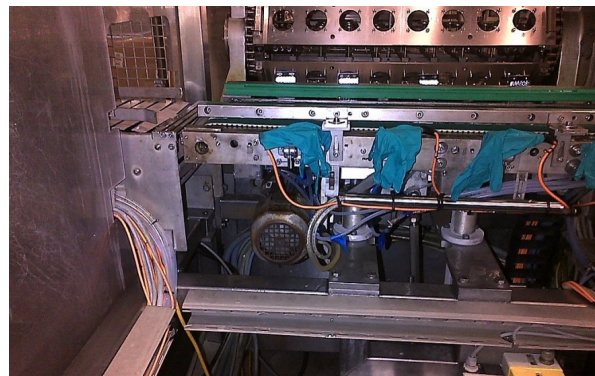
Cost Savings: € 41 791

Introduction

A company in the Food & Beverage industry was experiencing repeated bearing failures on a Pick & Place Unit Roller. Approximately 4 bearing sets were being changed annually due to the roller failing approximately every 3 months. A review by NSK showed the cause to be an ingress of water and process materials. NSK recommended replacing the standard bearings with NSK Molded-Oil units. A trial was implemented and since then commissioning failures have been significantly reduced. For approximately one year there had been no failures. The result was an improved productivity through reduced machine downtime.

Key Facts

- Frequent bearing failure resulting in approximately 8 bearings being replaced annually
- Significant number of man hours needed to replace failed bearings
- Frequent machine down time leading to costly lost production
- NSK Solution: Molded-Oil Ball Bearings
- Productivity improvement
- Cost saving realised



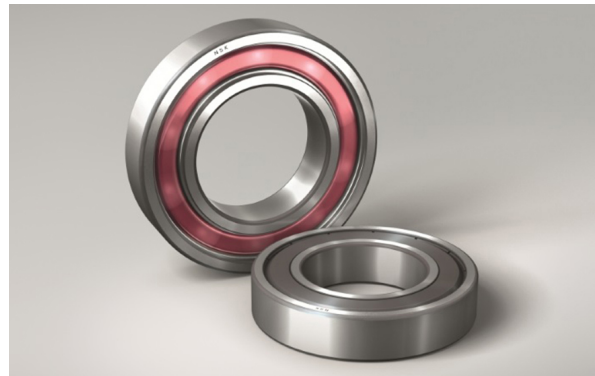
↑ Pick & Place Unit

Value Proposals

- NSK Application Review determined the bearings had failed due to the absence of lubrication and ingress of water and process materials
- 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 a reduction in 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 Bearing types
- Stainless steel for corrosive environments



↑ NSK Molded-Oil Deep Groove Ball Bearing

Cost Saving Breakdown

Before	Cost p.a.	NSK Solution	Cost p.a.
 Bearing Costs	€ 172	Bearing Costs	€ 501
 Labour Costs	€ 3.240	Labour Costs	€ 0
 Lost Production Costs	€ 38.880	Lost Production Costs	€ 0
Total Costs	€ 42 292		€ 501