

Success Story

Industry: Steel and Metals

Application: Wire guides

Cost Savings: € 10 000

Introduction

A wire manufacturer in France was experiencing frequent damage on final products due to bearing failures within their wire guides where Deep Groove Ball Bearings were mounted. On average, the bearings failed every 6 weeks, incurring maintenance time and loss of production. The bearings were failing due to ingress of contamination behind the seals and NSK recommended to replace the existing bearings with Stainless Steel Deep Groove Ball Bearings with Molded-Oil lubrication and DDU seals.

Key Facts

- Wire manufacturing - Wire guides
- Bearing replacement every 6 weeks
- Contaminated environment
- NSK solution: Stainless Steel Deep Groove Ball Bearings with Molded-Oil and DDU seals
- Bearing replacement reduced to 3 times per year



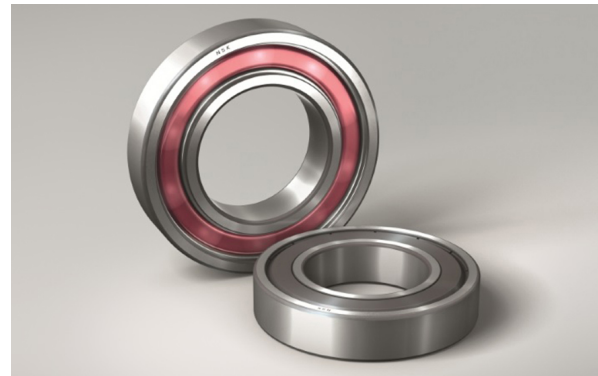
↑ Wire guides

Value Proposals

- The customer experienced many failures on their wire guides. An Application Review determined that ingress of contaminants from the production process was the main cause of failure
- The existing 2RS sealed Deep Groove Ball Bearings were inadequate
- NSK recommended Stainless Steel Molded-Oil Deep Groove Ball Bearings with DDU seals
- Since the introduction of new bearings, lifetime and machine performance has been significantly improved

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



↑ Deep Groove Ball Bearings with Molded-Oil

Cost Saving Breakdown

Before	Cost p.a.	NSK Solution	Cost p.a.
 - Long life- Product substitution- Reduced maintenance	€ 10.000		
Total Costs	Before		€ 10 000