

## Success Story

Industry: Food and Beverage

Application: Conveyor Belt

**Cost Savings: \$10,159**

### Introduction

A vegetable-processing company was experiencing repeated ball bearing failures on their transport systems. NSK was asked to investigate the problem and offer a solution. It was determined that a large amount of water was entering the bearings and washing out valuable grease. NSK suggested the use of sealed, corrosion-resistant Molded-Oil Bearings. This solution allowed grease to remain in the bearings and increase bearing life.

### Key Facts

- Conveyor belt
- Vegetable processing
- Frequent bearings failures
- Service life of only 2 weeks
- Increased service life required
- NSK solution: Molded-Oil Bearings
- Result: Bearing lifetime increased from 2 weeks to over 9 months



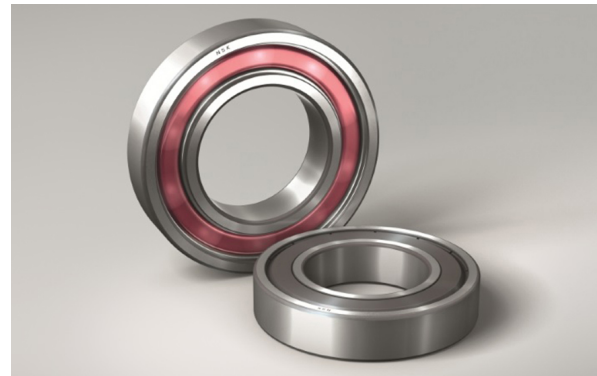
↑ Conveyor Belt

### 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 lubrication supply
- 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 dust contaminated environments)
- Contact-seal type available in standard inventory for ball bearings
- Extended maintenance-free performance is achieved 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.
 Lubrication cost	\$6,955	No Lubrication costs	\$0
 Bearing mounting and dismounting	\$3,204	No costs for bearing mounting and dismounting	\$0
<b>Total Costs</b>	<b>\$10,159</b>		<b>\$0</b>