

## Success Story

Industry: Food and Beverage

Application: Bottle Overwrapper

**Cost Savings: € 10 874**

### Introduction

A drinks company in the UK were experiencing premature bearing failures due to an unknown reason, believed to be contamination. Bearing lifetime was 1 week. NSK was contacted to evaluate the source of failure. NSK engineers identified the true cause of failure was due to residual magnetism causing Eddie Current Braking. The source of the magnetism could not be changed. Therefore an alternative bearing or design was needed. NSK solution resulted in bearing lifetime increase : from 1 week to 1 year.

### Key Facts

- Premature bearing failure
- Mass Production, high speed
- NSK Solution : DGBB with T1X cage, C5 clearance and shields
- Increased lifetime x52 times



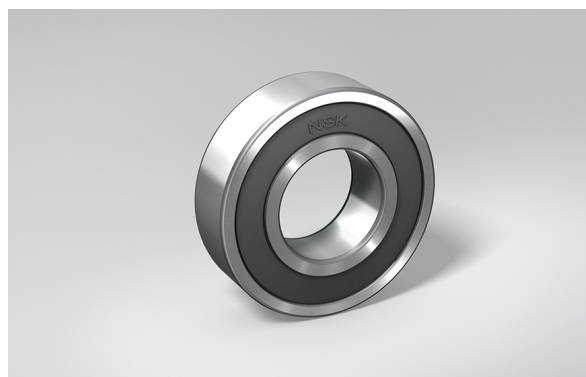
↑ Drinks Bottling Plant

### Value Proposals

- NSK Engineers performed Application Review
- Bearing failing due to residual magnetism
- DGBB with T1X cage, C5 clearance and shields

## Product Features

- DGBB with T1X cage, C5 clearance and shields
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↑ Deep Groove Ball Bearing with T1X cage

## Cost Saving Breakdown

Before		Cost p.a.	NSK Solution	Cost p.a.
	Annual bearing cost 3328 x 1.58€	5.283 €	Annual bearing cost 64 x 2,81€	180 €
	59€ per hour x 2 people x 52 time per year	5.772 €		0 €
<b>Total Costs</b>		<b>€ 11 055</b>		<b>€ 180</b>