

## Success Story

Industry: Food and Beverage

Application: Milk Bottle Conveyor

**Cost Savings: 7,625 euros**

### Introduction

### Key Facts

- Frequent bearing failures occurring approximately every 16 weeks across 5 conveyors
- Approximately 20 man hours needed to replace failed bearings every 5 years
- Significant machine down time, 1 hour per bearing change
- NSK solution: Silver-Lube housed bearing units
- Significant lifetime improvement resulting in no failures over a 5 year period
- Productivity improvement
- Substantial cost saving achieved



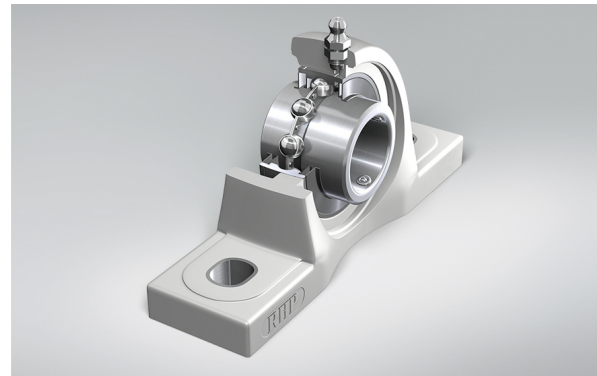
↑ Milk Bottling Conveyor

### Value Proposals

- Following repeated and costly bearing failures the customer requested a solution to their problem on 5 Milk Bottling Line Conveyors
- After performing an Application Review it was discovered that water was getting into the bearings causing the corrosion.
- NSK recommended the customer to use Stainless Steel Silver-Lube bearings to eliminate the problem
- A trial was proposed and implemented on all 5 conveyor systems
- This resulted in a reduction of machine downtime and maintenance costs and a significant annual cost saving as bearing service life was extended to more than 5 years

## Product Features

- PBT thermoplastic resin housing
- Martensitic stainless steel
- Nitrile rubber seals
- Available in Pillow Block, 2 and 4 bolt flanges and take-up unit housings
- Bore size 20mm – 40mm
- Corrosion resistance
- Paint free housings, preventing chipping & flaking
- Resistant to contamination increasing operating life
- Ideal for operations where process fluid is unavoidable



↑ NSK Silver-Lube

## Cost Saving Breakdown

Before	Cost p.a.	NSK Solution	Cost p.a.
 Costs for bearings	€ 2.804	Costs for bearings	€ 748
 Engineering labour costs	€ 1.925	Engineering labour costs	€ 481
 Lost production costs	€ 4.125	No lost production costs	€ 0
<b>Total Costs</b>	<b>€ 8.854</b>		<b>€ 1.229</b>