

Success Story

Industry: Food and Beverage

Application: Milk Bottle Conveyor

Cost Savings: \$8,133

Introduction

Key Facts

- Frequent bearing failures occurring approximately every 16 weeks on 5 conveyors
- Approximately 20 man hours needed to replace failed bearings
- Significant machine down time, 1 hour per bearing change
- NSK solution: Silver-Lube housed bearing units
- Significant increase in bearing life resulting in no failures over 5 years
- Productivity improvement



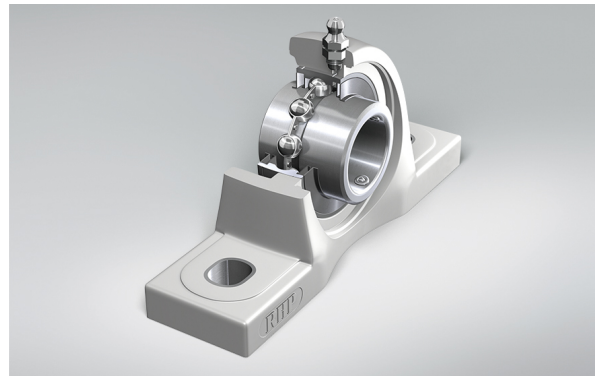
↑ Milk Bottling Conveyor

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.
 Bearing replacement:	\$2,991	Bearing replacement:	\$798
 Maintenance:	\$2,053	Maintenance:	\$531
 Lost production:	\$4,440	Lost production: none	\$0
Total Costs	\$9,444		\$1,311