



Context of the customer's challenge

Area: USA

Market: Food & beverage / vegetable production

Application: Cleaning and packaging production line

Environment/Context:

- Bearing failures due to regular equipment washdowns causing grease washout
- Over-lubrication leading to blown seals
- Resulting forced production shutdowns every 4 months for maintenance and 82 400€ in lost production each year

Customer need: Improve bearing reliability to prevent production shutdowns and lost revenue

NTN solution

- Replace existing bearings with NTN's Sentinel series bearing units SUCF204FG1 with solid lubrication LUBSOLID "Full Pack" (100% of free volume)
- SENTINEL features:
 - Corrosion-resistant stainless steel ball bearings
 - NSF-H1 registered solid lubricant
 - Deflectors + seals + LUBSOLID provide improved protection over the standard bearing unit design being used
 - Superior washout resistance and extended bearing life
 - LUBSOLID eliminates the need for regreasing, SENTINEL products are lubricated for life
 - Stainless steel covers provide additional protection

Results

- The NTN solution lasted throughout the entire 12-month season with no failures, completely eliminating unplanned downtime
- The solution also eliminated the need for weekly lubrication, saving the facility over 100 hours in yearly maintenance



CUSTOMER BENEFITS

- Reduced acquisition cost: 62 400€
- Uptime improvement: 55 800€
- Maintenance reduction: 3 700€
- ▶ **Total cost savings: 121 900€**

ADDITIONAL ADDED VALUE

- Removal of re-greasing maintenance campaign
- Grease consumption significantly decreased

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