

NTN's Sentinel™ Series Helps Snack Conveyors Run Four Time Longer

A major supplier of snack foods was experiencing bearing failures every *three months* on a pair of its conveyor lines. The regular bearing failures resulted in *\$11,000 in lost production each year*.

NTN's engineering and sales support team performed a comprehensive evaluation of the conveyors and determined they were experiencing premature bearing failure due to grease washout as a result of rigorous washdown cycles during peak season production.

The NTN Solution

NTN's team recommended that the bearings being used in the production line be replaced with our Sentinel Series mounted units. NTN Sentinel Series features corrosion-resistant stainless steel ball bearings with seals and NSF H1 registered solid lubricant. The solid lubrication provides up to 21 times better washout resistance than standard grease and eliminates the need for relubrication. Additionally, the seals provide improved protection against water ingress when compared to standard deep groove ball bearings, which is critical to extending the life of equipment exposed to moisture. Furthermore, our Sentinel Series line of mounted units are end cap capable, providing an additional layer of security.

The Result

The NTN solution outlasted all of the season's production spikes and remained in operation for over *one year*; a 300% increase in uptime! The increased uptime, reduced maintenance, and decrease in bearing spend resulted in *\$12,544* in documented savings for the customer.



VALUE ADDED BREAKDOWN

UPTIME IMPROVEMENT

\$8,640

REDUCED ACQUISITION COST

\$2,704

MAINTENANCE REDUCTION

\$1,200

DOCUMENTED COST SAVINGS

\$12,544

CS-1081



**ANNUALIZED
COST SAVINGS
\$12,544**

THE NTN ADVANTAGE: SOLID LUBRICATION

Solid lubrication is a maintenance-free solution that eliminates greasing requirements and significantly improves life in harsh washdown applications.

- **NSF H1** compliant
- **21X** the grease washout resistance
- **Zero** grease leakage
- **Zero** re-lubrication



Nonfood Compounds
(Category Code H1)



SENTINEL SERIES FEATURES & BENEFITS



- Food-grade solid lubricant eliminates maintenance, resists washout
- Stainless steel housings with stainless steel inserts prevent corrosion from moisture and harsh cleaning agents
- All units come equipped with your choice of open or closed cover configurations



We will pop in when you need a hand.

We're here to help you achieve your productivity and performance goals. For more information, contact your NTN Sales Representative or call **1.800.323.2358**. For technical questions, email eng@ntnamerica.com.

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