

# NTN's Sentinel Series Reduces Risk of Contamination at Poultry Plant

One of the United States' most prominent poultry processing plants contacted NTN's engineering and sales support team with a request to perform a comprehensive audit of its facility. While they did not have any specific concerns, they knew of other successfully implemented NTN solutions and were hoping NTN could expose any problem areas and provide solutions specific to them.

During their thorough evaluation of the plant, NTN's team observed an issue that could lead to contamination of the product. Throughout the facility, product traveled along conveyors that intersected with and crossed over other conveyors. It was found that thermoplastic housed bearing units were being used in this configuration and the housings were fractured. Fractured housings pose the risk of flaking plastics contaminating the product as it travels the conveyors. This raised a major red flag with the NTN team. Plastic that gets into food products will likely not be detected, as most food processing facilities use metal detectors for food safety. Even the slightest plastic contamination could lead to costly product recalls and potential lawsuits.

## The NTN Solution

NTN's team recommended that the plant replace the thermoplastic housed bearings with our stainless steel line of Sentinel Series bearing units. Our Sentinel Series line features corrosion-resistant stainless steel bearing units, eliminating concerns of plastic contaminating the product. Stainless steel material is much stronger and can be detected by the metal detectors used for food safety.

## The Result

The NTN solution not only improved food safety and provided peace of mind for the poultry processing facility, but it also *doubled* the bearing life and uptime! The increased uptime, reduced maintenance, and decrease in bearing spend resulted in over \$63,800 in annualized saving



## VALUE ADDED BREAKDOWN

**UPTIME IMPROVEMENT**

**\$49,815**

**MAINTENANCE REDUCTION**

**\$7,380**

**REDUCED ACQUISITION COST**

**\$6,619**

**DOCUMENTED COST SAVINGS**

**\$63,814**

CS-0476, CS-0478 & CS-0479



**ANNUALIZED  
COST SAVINGS  
\$63,814**

# THE NTN ADVANTAGE: SOLID LUBRICATION

Solid lubrication is a maintenance-free solution that eliminates greasing requirements and significantly improves life in harsh wash-down 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 wash-out
- 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're here for your peace of mind.

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](mailto:eng@ntnamerica.com).

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## Beyond Bearings

Training. Installation Support.  
Trouble-shooting. And more.

When you choose NTN, your team is equipped with all the necessary tools and resources to get the job done right. From installation to problem-solving, we'll be there with the hands-on support you need to take on your toughest challenges. This includes extra services such as:



### Technical Training Unit

On-site, mobile training unit offering specialized, hands-on instruction from NTN engineers



### Product Training School

Three days of in-depth instruction from NTN engineers at headquarters  
([go.ntnamerica.com/trainingschool](http://go.ntnamerica.com/trainingschool))



### eKnowledge

WEB-BASED TRAINING PROGRAM

Six online product training modules covering different bearing types and nomenclature  
([www.ntnamerica.com/eknowledge](http://www.ntnamerica.com/eknowledge))



### NTN Bearing Finder

Customizable search tool featuring exhaustive data sets, comprehensive part interchanges and interactive CAD drawings  
([bearingfinder.ntnamerica.com](http://bearingfinder.ntnamerica.com))

# NTN®