

NTN's Sentinel™ Series Saves Poultry Processing Plant Thousands

A major US-based poultry plant processing approximately 175,000 birds per day was struggling with catastrophic bearing failures on both their poultry cage washing machinery and cage unloading systems. The repetitive failures on these two critical applications were causing very costly downtime at a rate of *\$231 per minute*.

NTN's engineering and sales support team ran a comprehensive diagnosis of the plant's cage washdown and unloading machinery. They discovered that the competitor's bearing units were only lasting an average of *two weeks* due to both water contamination and improper lubrication.

The NTN Solution

NTN's team recommended that the plant switch to Sentinel Series bearing units. Our Sentinel Series bearing units are a premium corrosion-resistant bearing with NSF H1 registered solid lubricant and caps as the standard offering, built to withstand these severe environments. The solid lubrication provides up to 21 times better washout resistance than standard grease and the caps improve the protection even further, which was critical to extending the life of these applications.

The Result

The NTN solution lasted more than *12 times* longer! Sentinel Series successfully ran for over *24 weeks* compared to the competitor's bearing that was failing every *2 weeks*.

The increased uptime and reduced maintenance have resulted in over \$60,000 in savings in the first six months. The customer was so impressed by the improved performance that they installed additional NTN Sentinel Series bearings across their plant to further increase their productivity.



VALUE ADDED BREAKDOWN

BEARING USAGE REDUCTION

\$37,100

MAINTENANCE REDUCTION

\$15,600

UPTIME IMPROVEMENT

\$7,540

DOCUMENTED COST SAVINGS

\$60,240

Cost001367



ANNUALIZED COST SAVINGS

\$120,480

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 or thermoplastic 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



Here for you when things run afoul.

We're here to help you achieve your productivity and performance goals. For more information, contact your NTN Sales Representative or **call 1-888-412-4122**. For technical questions, **email techsupport@ntn.ca**.

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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



Maintenance Training School

An intensive three day course on the design, application and maintenance of anti-friction bearings with hands-on workshops



eKnowledge

WEB-BASED TRAINING PROGRAM

Six online product training modules covering different bearing types and nomenclature (www.ntnamericas.com/eknowledge)



NTN Bearing Finder

Customizable search tool featuring exhaustive data sets, comprehensive part interchanges and interactive CAD drawings (www.bearingfinder.ntnamericas.com)