

NTN's Sentinel™ Series Drills Through Downtime at Poultry Processing Plant

One of the United States' largest poultry producers was suffering production crippling bearing failures on its cropper machine caused by water ingress. Failures were occurring on a monthly basis, accounting for over \$33,750 in lost production per month.

NTN's engineering and sales support team performed a comprehensive evaluation of the cropper machine and identified 15 bearings susceptible to failure due to corrosion caused by exposure to water.

The NTN Solution

NTN's team recommended that the 15 bearings identified be replaced with Sentinel Series ball bearings. Our 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 wash-out resistance than standard grease and the seals provide improved protection over standard deep groove ball bearings, which is critical to extending the life of equipment exposed to moisture.

The Result

The NTN solution reduced annual failures on the cropper machine from 180 down to 30, nearly an 85% reduction! Rather than incurring monthly downtime due to corrosion, the NTN solution lasted six months before replacing the bearings was even considered.

The increased uptime, reduced maintenance, and decrease in bearing spend resulted in over \$343,000 in savings in the first year for the poultry processing plant.



VALUE ADDED BREAKDOWN

UPTIME IMPROVEMENT

\$337,500

MAINTENANCE REDUCTION

\$5,250

REDUCED ACQUISITION COST

\$886

DOCUMENTED COST SAVINGS

\$343,636

CS-0593



**ANNUALIZED
COST SAVINGS
\$343,636**

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



Don't let downtime foul up your production schedule.

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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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)



eKnowledge

WEB-BASED TRAINING PROGRAM

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



NTN Bearing Finder

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

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