

NTN's Ultra-Class™ with Solid Lube Improves Conveyor Uptime on Potato Farm

One of the United States' largest potato farms was suffering recurring bearing failures on a number of its conveyors used to wash potatoes after harvest. These failures were causing extensive downtime, significant bearing replacement cost and lost production.

NTN's engineering and sales support team performed a thorough evaluation of the facility's conveyor setup and determined the competitor's bearings were failing every three months due to heavy corrosion caused by water ingress into the bearings.

The NTN Solution

NTN's team recommended that the competitor's bearings be replaced with our Ultra-Class mounted units with solid lubricant. Ultra-Class, NTN's flagship bearing unit line, features a unique elastomeric seal and outer flinger design that creates a fan-like mechanism that protects the bearing from water and other contaminants. It also utilizes black-oxide coated bearing inserts that resist corrosion.

Additionally, NTN's solid lubrication provides excellent resistance to washout, making it an ideal solution for wet applications.

The Result

The NTN solution lasted 15 months! Ultra-Class successfully ran for 15 months; a 500% increase in uptime compared to the competitor's bearing! The increased uptime, reduced maintenance, and decrease in bearing spend resulted in over \$13,000 in annualized savings for the potato farm.



VALUE ADDED BREAKDOWN

UPTIME IMPROVEMENT

\$11,520

MAINTENANCE REDUCTION

\$1,152

REDUCED ACQUISITION COST

\$1,012

DOCUMENTED COST SAVINGS

\$13,684

CS-0903



NTN ULTRA-CLASS IN A CLASS OF ITS OWN

NTN Ultra-Class products are premium ball bearing units for your harshest applications.



- **Heavy-duty**, solid-cast housings & robust steel cages for optimal load & shock stability
- **Reduced corrosion** in humid, wet environments due to black-oxide coated inserts
- **7.5x longer set screw retention life** with NTN's patented ball-point set screws vs. cup-point
- **Maximum shaft holding power** as a result of optional eccentric locking collar
- **Premium protection** from water & contaminants due to unique sealing design
- **Longer bearing life** as a result of high-quality bearing inserts
- **Maintenance-free option** with solid lubricant available

Don't let downtime get under your skin.

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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