

NTN's Ultra-Class™ Triples Uptime at Hardwood Sawmill

A major US-based hardwood sawmill was experiencing production-crippling bearing failures on their drying kiln rollers. The repetitive failures on this critical equipment were causing very costly downtime at a rate of over \$1,900 per week and impacting promised ship dates.

NTN's engineering and sales support team ran a comprehensive diagnosis of the mill's drying kilns and discovered that the competitor's bearings were only lasting an average of two to four months due to the wide temperature swings and very humid nature of these kilns.

The NTN Solution

NTN's team recommended that the mill switch to Ultra-Class bearing units. Our Ultra-Class bearing units have eccentric locking collars and heavy-duty riveted steel cages that function perfectly after repeated drying cycles. Additionally, the standard corrosion-resistant black-oxide coated ball bearing inserts easily withstand the moist environment without seizing to the roller shafts.

The Result

The NTN solution lasted three times longer! Ultra-Class units successfully ran for over six to 12 months compared to the competitor's bearing that was failing every two to four months.

The increased uptime and reduced maintenance resulted in nearly \$200,000 in savings over a two-year conversion time frame. The customer was so impressed by the improved performance that they installed NTN Ultra-Class bearing units on all their drying kiln rollers to maximize their productivity.



VALUE ADDED BREAKDOWN

INCREASED BEARING LIFE

\$97,650

REDUCTION IN MAINTENANCE

\$81,000

REDUCED ACQUISITION COST

\$10,000

MISCELLANEOUS SAVINGS

\$10,850

DOCUMENTED COST SAVINGS

\$199,500

Cost000750

**ANNUALIZED
COST SAVINGS
\$99,750**



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
- **Corrosion-resistant**, black-oxide coated inserts withstand humid, wet environments
- **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

We'll chip in when you need us.

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
(www.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
(www.bearingfinder.ntnamerica.com)

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