

NTN's SPAW/SPW Heavy-Duty Roller Mounted Units Get Debarker Back up and Running

A major producer of hardwood lumber and flooring products was experiencing premature bearing failures on its debarker drag chain conveyor. The repetitive failures on this critical equipment were leading to 72 hours of equipment downtime per year, resulting in lost production costs of \$144,000 per year.

NTN's engineering and sales support team ran a thorough diagnosis of the mill's debarker and discovered that the bearings were only lasting an average of one month due to constant exposure to tree bark, dirt, sand, wood scraps and water. Additionally, the NTN team saw that the mill was using two ball bearing mounted units on each end of the heavy drag chain drive shafts, thus burning through a lot of bearing inventory each year.

The NTN Solution

The NTN team recommended that the mill switch to NTN's SPAW heavy-duty mounted roller bearing units with optional end covers. Our SPAW/SPW family of heavy-duty mounted units feature a sealed spherical bearing that offers superior protection in heavily contaminated environments. Additionally, end covers provide maximum bearing seal protection from the massive amounts of heavy debris buildup.

Furthermore, NTN's team determined that a single SPAW bearing on each end of the chain conveyor shafts would be sufficient to carry the heavy loads of the drag chain, thus reducing the mill's bearing inventory requirements as well.

The Result

To date, the NTN SPAWs have performed flawlessly! The SPAW heavy-duty mounted roller bearing units with covers continue to successfully operate with no issues despite the harsh, wet and dirty conditions in which they operate, resulting in over \$150,000 in savings in just the first year.



VALUE ADDED BREAKDOWN

INCREASED PRODUCTION
\$144,000

REDUCTION IN MAINTENANCE
\$3,168

REDUCED ACQUISITION COST
\$2,786

REDUCED CARRYING COST
\$156

DOCUMENTED COST SAVINGS
\$150,110

Cost001887



NTN SPAW/SPW HEAVY DUTY MOUNTED UNIT

Heavy loads and contamination require heavy-duty protection.



- **Heavy-duty**, one-piece, sturdy ductile iron housing to withstand shocks & impacts from falling debris and cold operating conditions
- **Superior sealing** protection from water and contaminants with spring-loaded, single-lip contact bearing seal
- **Extra bearing protection** with optional end covers for severe debris & contamination services
* (2 open covers, or 1 open & 1 closed cover)
- **Phosphate-coated** bearing insert, locknut & adapter sleeve for corrosion protection
- **Prelubricated & factory sealed** for quick, trouble-free start ups
- **Versatile** with repositionable snap ring for fixed or floating operation
- **Drop-in replacement for split housing bearings** permitting faster, easier installations than SAF/SN units, having the same base-to-shaft center height and bolt position

We'll help you get to the root of the problem.

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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