

# ROX Reduces Unplanned Downtime and Maintenance in Wood Chip Separator

A paper and corrugated board producer was experiencing **bearing failures every two months** on a wood chip separator operating in a dusty indoor environment. Wood chip contamination accelerated wear and reduced bearing reliability. Numerous bearing solutions had been tested previously, including open spherical roller bearings, but none delivered acceptable service life. The customer required improved system reliability, reduced maintenance operations, and the elimination of unplanned downtime.

## The NTN Solution

NTN recommended ROX spherical roller bearings, designed to perform reliably in heavily polluted environments.

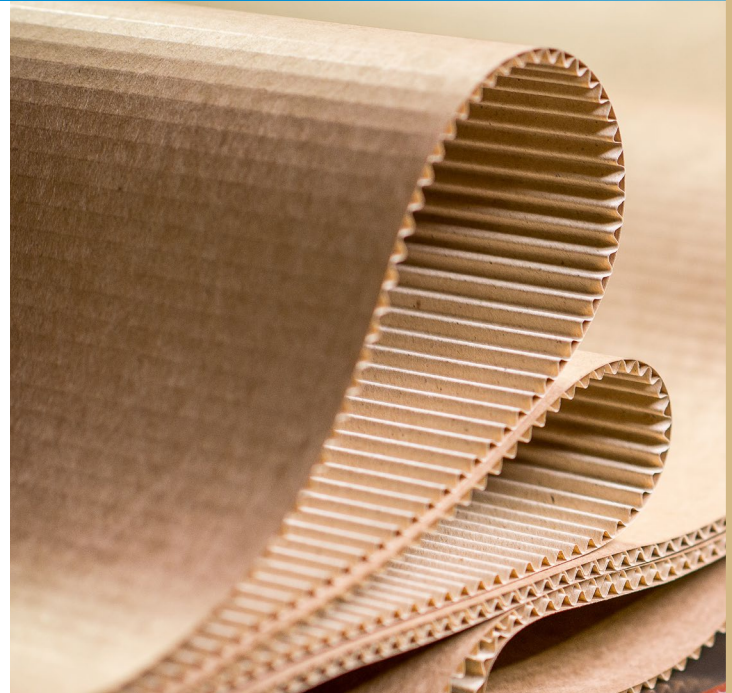
Key features of the ROX solution include:

- **100% interchangeability with standard open ISO solutions on the market**
- **Shields provide protection against dust**
- **Increased grease retention inside the bearing**

Ten ROX bearings were validated directly in the wood chip separator application.

## The Result

ROX remained fully operational after 10 months of continuous service, delivering **a minimum service life five times longer** than the previously used solution. During the evaluation period, ROX eliminated bearing-related unplanned downtime and significantly reduced maintenance activity. When annualized, the improvement resulted in total **estimated customer savings of approximately \$1.06 million per year**, driven by reduced production downtime, lower maintenance costs, and reduced material-related expenses.



## VALUE ADDED BREAKDOWN

### UPTIME IMPROVEMENT

**\$628,515**

### MAINTENANCE REDUCTION

**\$251,406**

### REDUCED ACQUISITION COST

**\$186**

### DOCUMENTED COST SAVINGS

**\$880,107**

**ANNUALIZED  
COST SAVINGS  
\$1,056,128**

# ROX

## BORN FOR THE DUST.

- 100% interchangeable with standard open ISO solutions on the market
- Shields provide protection against dust
- Increased grease retention inside the bearing



## Here to chip in when you need an extra hand.

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](mailto:eng@ntnamerica.com).

NTN BEARING CORPORATION OF AMERICA  
1501 E. Woodfield Road, Suite 400E • Schaumburg, IL 60173  
Tel: 847-298-7500 • Fax: 847-294-1205 • [www.ntnamericas.com](http://www.ntnamericas.com)

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Training. Installation Support.  
Trouble-shooting. And more.



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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 NTN headquarters or other regional locations around the country  
([go.ntnamericas.com/trainingschool](http://go.ntnamericas.com/trainingschool))



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WEB-BASED TRAINING PROGRAM

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