

COST SAVINGS: \$100,000

Application: Breast Roll

Solution: Proper Installation Procedures

INTRODUCTION

A major paper mill was experiencing cracked outer rings as well as etching and spalling on a tending side bearing. A Broderson crane was being used to change the tending side bearing which caused severe misalignment and eventually cracked outer rings. In addition, wash down was causing water to enter the bearing causing etching and spalling.

THE KEY FACTS

- › Application: Breast Roll
- › End-product: Paper
- › Number of machines: 1
- › Status: Still running
- › Problem: Improper installation procedures and poor lubrication were causing bearing failures
- › Objective: Increase bearing life

VALUE PROPOSALS

- › NSK suggested using an overhead crane when changing out bearing to minimize movement and negate misalignment.
- › For the wash down issue NSK suggested the use of Inpro seals to minimize water contamination.
- › With the suggested changes, outer ring cracks have been avoided for 3 years and service for the wash down bearing only needs to be done for cover maintenance.

Pictured: NSK Spherical Roller Bearing



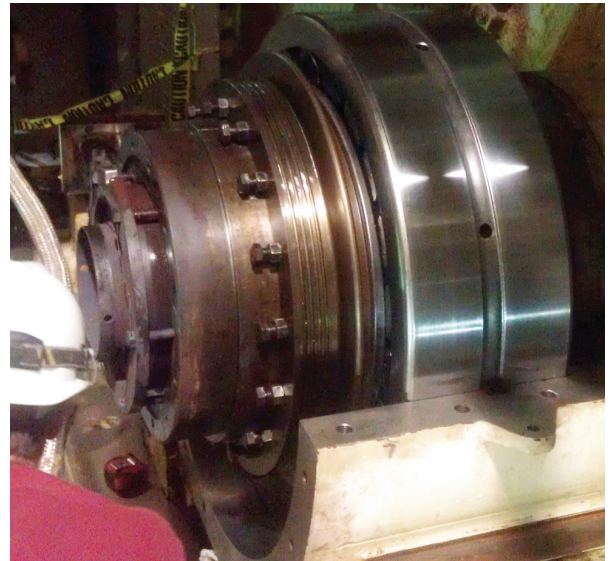
INDUSTRY SPECIALIST SUPPORT

Industry Specialist's experience and knowledge help optimize bearing performance and increase reliability by:

- › Improving productivity
- › Reducing maintenance
- › Improving efficiency
- › Optimizing design
- › Reducing total cost

Services include:

- › Maintenance training
- › Machine and bearing failure analysis
- › Bearing storage solutions
- › Troubleshooting
- › Tilt and deflection testing
- › Installation and removal
- › Maintenance Best Practices



COST SAVINGS BREAKDOWN

	BEFORE	COST	NSK SOLUTION	COST
› Bearing Cost	Spherical roller bearing replacement cost	\$100,000.00	0 bearings	\$0
	Total	\$100,000.00	Total	\$0
			Total Cost Saving	\$100,000.00