



NSK



NSK CASE STUDY

INDUSTRY

PAPER

APPLICATION

RECONDITIONING FOR PAPER MACHINES

PRODUCT

SPHERICAL AND LARGE BORE BALL BEARINGS

COST SAVINGS: \$119,996

Mill was looking for ways to reduce cost and increase uptime. Reconditioning service offered a cost effective way to extend bearing service life while keeping down cost and lead times.

VALUE PROPOSALS

- › NSK along with the mill established a program that would take frequently used bearings for paper machines and place into NSK's reconditioning program. Even if the bearings were not returned for immediate installation, they would be placed in mill inventory and readily available for the next change out.
- › In establishing this program the mill also made critical bearings available for sister mills that may utilize the same bearings.





RECONDITIONING PROGRAM: LEVELS OF RECONDITIONING

Level 1

- › Pressure Cleaned
- › Inspected with Thorough Damage Analysis
- › Raceway, Bore, Cup, Cone, Inner, Outer and Roller Angles Verified
- › New Components (Roller or Rolling Elements, Pins and cage Rings) if Applicable
- › Raceway Reground as Needed
- › Polished, Vibratory Finished/Touched up as Required
- › Verified for Size and Angle
- › Clearance Measured, Verified and Reset
- › Cleaned and Repacked

Level 2

- › Pressure Cleaned
- › Inspected with Thorough Damage Analysis

- › Raceway, Bore, Cup, Cone, Inner, Outer and Roller Angles Verified
- › Raceway Reground as Needed
- › Polished, Vibratory Finished/Touched up as Required
- › Verified for Size and Angle
- › Clearance Measured, Verified and Reset
- › Cleaned and Repacked

Level 3

- › Pressure Cleaned
- › Inspected with Thorough Damage Analysis
- › Polished
- › Minor Repair (Spalls/Imperfections)
- › Measured and Spacers Reground if Applicable
- › Proper Clearance Checked
- › Cleaned and Repacked

Level 4

- › Pressure Cleaned and Repackaged

COST-SAVING BREAKDOWN

ISSUE	COST	NSK SOLUTION	COST
Cost of 19 bearings purchased new	\$260,796	19 bearings reconditioned along with inventory program at the mill.	\$140,800
Total	\$260,796	Total	\$140,800

TOTAL COST SAVING

\$119,996

YOUR PARTNER FOR MACHINE OPTIMIZATION

Our AIP Added Value Program is based around a simple proposition: 'improvement pays'. By working with you throughout the AIP Value Cycle, we will help you achieve improvements in machine reliability, productivity and performance, all of which carry a tangible and measurable cost benefit – and we have the tools to prove it! That's what we mean by **improvement pays**.

