

Schaeffler Global Technology Solutions

Pulp and paper

Reconditioning of Spherical Roller Bearings in a Drying Cylinder

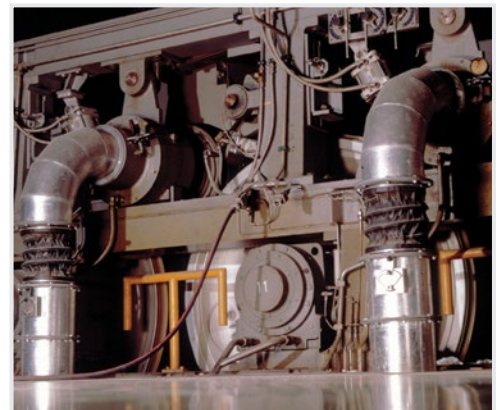
The customer is a renowned plant construction company which designs and modifies machines and plants for the pulp and paper industry.

Challenge for Schaeffler

The plant construction company was assigned to refurbish a paper machine that was built in the 1950s. This work included the reconditioning of the bearings. Since the spherical roller bearings that supported the drying cylinder were not produced anymore, the customer asked the reconditioning team of Schaeffler to recondition the old bearings.

Schaeffler Solution

The reconditioning experts carried out the following operations: The bearings were dismantled, cleaned and examined thoroughly; all dimensions were measured, all raceways, outside diameters and faces were polished, and then the bearings were preserved and mounted again. Only six weeks later the reconditioned spherical roller bearings were delivered back to the customer. After the reconditioning, the bearings offer the same high quality as new bearings.





Paper roll



Bearing Inspection



Checking of bearing clearance

Customer Benefit

If it had been impossible to recondition the spherical roller bearings, an extensive conversion of the dryer section would have been necessary. This would have taken considerably more time and would have been much more expensive.

	Time	Costs
Conversion:	18 weeks	€ 25 000
Reconditioning by Schaeffler:	6 weeks	€ 8 000
Savings:	12 weeks	€ 17 000

For that type of conversion work, the paper machine would have had to be shut down for an additional twelve weeks, and the resulting production losses would have incurred considerable extra costs for the paper mill.

What's special

This form of reconditioning is also suitable for comparable applications in other industries.

Technical Information about the Solution

Reconditioning according to Level II:

- Dismounting
- Cleaning
- Examination
- Measurement
- Polishing of the raceways
- Polishing of the outside diameters and faces
- Preservation
- Mounting
- Packaging