

Case Study

Bearings



Summary



Industry:	Wood products
Application:	Primary Conveyor
Actual Saving:	£5000+ engineering, 18 hours production time
Payback Period:	N/A



Revolve Split Roller Bearings Slash Downtime

Saving the customer 18 hours of lost production

ISSUE

A traditional fixed bearing failed on the main feed conveyor in a Scottish saw mill. These bearings are trapped by the main gearbox by the drive roller is also trapped by the steel construction of the conveyor itself.

To remove in the traditional manner would have meant spitting the steel frame by grinding a section out before the need for a crane to remove the assembly to then send this to a subcontractor to remove the gearbox from the drive end shaft, replace the bearings on the non-drive end and drive end before returning the assembly back to site. Once re-located in the machine the frame would have to have been re-welded into situation before production could be continue.

SOLUTION

The Site Engineering Manager contacted the Bearing Core Competence Centre at 12.00 noon and asked if a Split Roller Bearing was available in the correct size and if stock was available. After checking both specification and availability of the products they were loaded onto a taxi and transported to Scotland from Halesowen. Once this was in place a call was made to the Engineering Manager to explain that it was now safe to remove the failed bearings but grinding them off the shaft as the new bearing complete were on route to Scotland and should be on site within 5 hours.

The bearings were supplied to the mill and without having to remove the main gearbox, frame work or any major engineering tasks the machine was made ready to accept the new split roller bearings. The shaft had to be supported by bottle jacks and all the areas were cleaned and awaited the arrival of the bearings. Once on-site the bearings were fitted in two hours and the machine was ready for production again by 20.30 hours that evening.

OTHER BENEFITS

- No need to strip/dismantle main conveyor
- No Engineering work needed
- No need for equipment to leave site to subcontractors

FURTHER COMMENTS...

If the split roller bearings weren't available then a major engineering project would have to have been carried out. This conveyor has never had a bearing failure before and due to the design of the conveyor we would have had to do major engineering work to enable us to gain access to the bearings.

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MORE INFORMATION

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