

German Chalk Conveyor



The Application Problem

This 400 metre conveyor is used by a German customer to transport chalk for processing.

The original bearing, a FAG spherical roller bearing (23034K) in an S30 housing was continually failing.

To remove the FAG bearing required the removal of a gearbox and the bearing to be slid along the shaft. To cope with the bearing failure problems, the customer required regular bearing change-outs. Long downtimes were creating high maintenance costs and limited the operational use of the conveyor.

If the conveyor is stopped for any reason, the productivity of entire site is affected, which has a negative impact on the site productivity levels.



The Cooper Split Solution

To rectify the problem, Cooper recommended the FAG bearing was replaced with an 01BCP 150mm GR (Fixed) bearing installed in a trapped position on the drive shaft of the conveyor.

The Cooper hallmark split to the shaft feature enables installation and inspection access in areas that would otherwise demand a complete plant stripdown. The Cooper bearing permits easy access for installation and inspection without removal of adjacent equipment in the most difficult access positions.

Inspection and maintenance is carried out in the shortest possible time, using a few simple tools, giving more conveyor uptime and less maintenance and reducing workplace risk.

Effective sealing is an important element in providing optimum bearing life. The bearing on this conveyor utilises standard Cooper felt seals which are proven to retain lubrication and keep contaminants out of the bearing.



All information and figures correct at time of printing.

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