

SNC Split Bearing Fan Conversion



The Application Problem

A major UK cement producer has a number of solid double row spherical bearings with tapered sleeves which are installed on clinker cooling fans.

Changing these bearings takes a full day (9-12hours) as the shaft and impeller have to be removed in order to service the bearings.

Due to the extremely dusty conditions life expectancy was only 12-18 months. Sealing is a vital issue in providing optimum bearing life.



Above: The typical working environment for cement plant bearings. This images shows the SN bearings on the fan prior to conversion to Cooper.

Right: The new Cooper 75mm bearing and SNC housing installed on the drive shaft. Cooper sealing is more than able to cope with cement dust environment shown above.

The Cooper Split Solution

The spherical bearings on half of the fans have now been changed to Cooper , the most recent using the new SNC 75mm EX and GR pedestals (01EBC SNC 517 75mm EX (Expansion) and GR (Fixed) which offer direct interchangeability with the SN spherical bearings originally fitted.

The Cooper swivel cartridge allows +/- 2.5° misalignment and the Cooper hallmark split to the shaft feature provides sealing that always remains concentric to the shaft which keeps out foreign matter and retains the lubrication and provides optimum bearing life.

The split to the shaft roller feature also 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 the need to remove adjacent equipment in the most difficult of trapped positions.

Inspection and maintenance is carried out in the shortest possible time giving more uptime and less maintenance and reducing workplace risk.



All information and figures correct at time of printing.

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Customer Service Centres

UK, Africa, Asia, Australasia and the Middle East

Cooper Roller Bearings Co Ltd
Wisbech Road
King's Lynn
Norfolk PE30 5JX
England.
Telephone +44 (0) 1553 763 447

Fax +44 (0) 1553 761 113

Europe and South America

Cooper Geteilte Rollenlager GmbH
Postfach 100 423
Oberbenrader Str 407
47704 Krefeld
Germany.
Telephone + (49) 2151 713 016
Fax +(49) 2151 713 010

USA and Mexico

The Cooper Split Roller Bearing Corp.
5365 Robin Hood Road, Suite B
Norfolk, VA 23513
USA
Telephone 757 460 0925
Fax 757 464 3067

Canada

Cooper-Grainger Canada Inc
5875 Coopers Avenue
Mississauga
Ontario L4Z 1R9
Canada
Telephone 905 890 2266
Fax 905 890 2269