Picture 1

01 BCP 1016mm EXILOG GR fitted to a 10 feet diameter Silica Mill.

Pictures 2 and 3

A 28" EXILOG and GR bearing fitted to a French Aluminates Ball Mill. Speed is 26RPM and each bearing is carrying 15 tons (147kN).

Picture 4

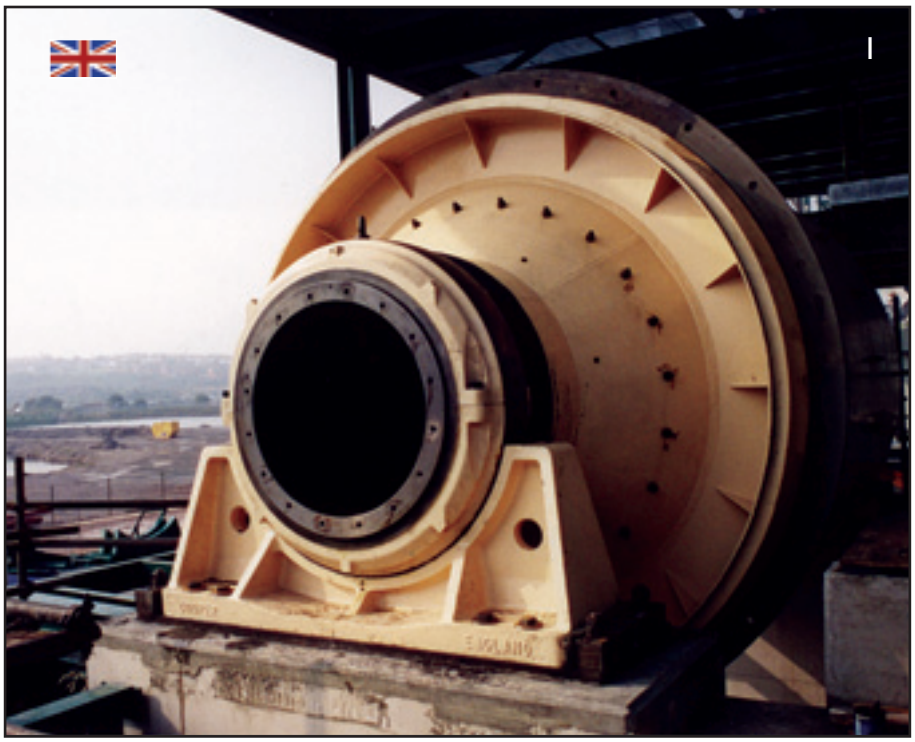
Hope Cement Works uses Cooper 280mm bearing on the trunnion shaft.

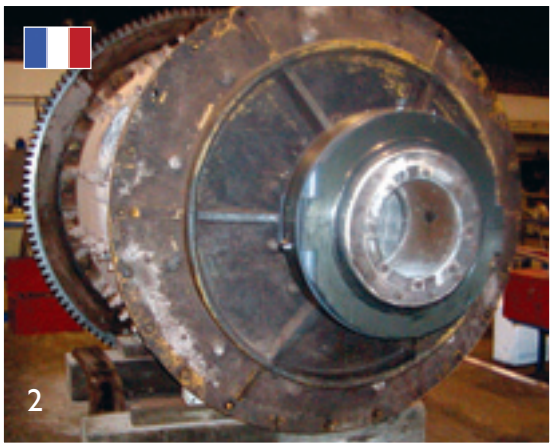
Pictures 5 and 6

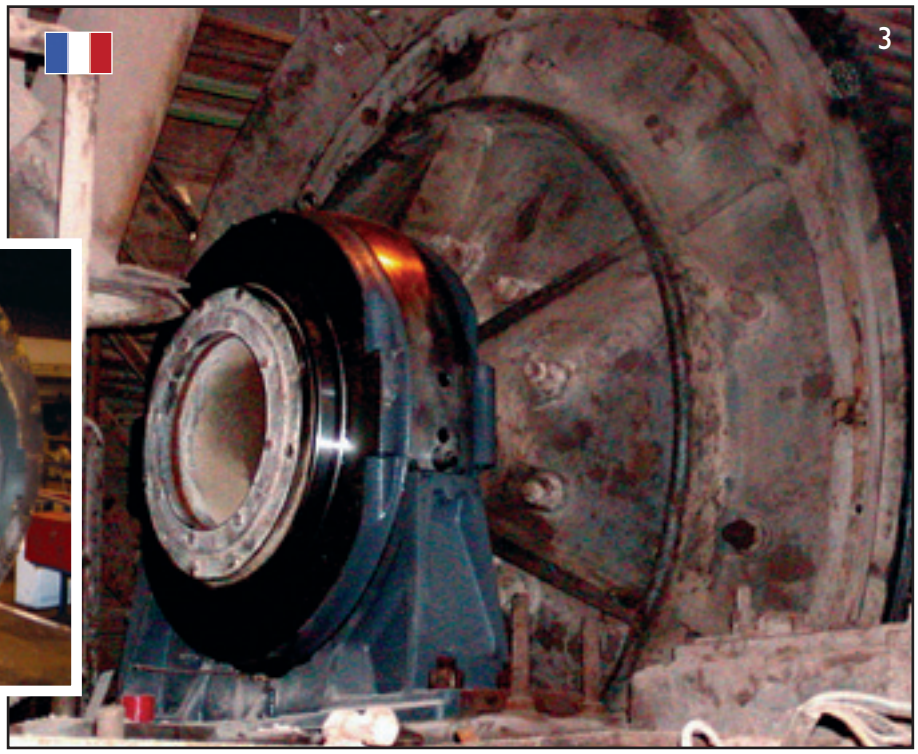
Lichtenberg Lafarge use Cooper 03BCP 320mm on this ball mill.

In addition to these illustrations and numerous UK applications, Cooper bearings are also used on Ball Mills in: Egypt, Greece, Ireland, USA and Turkey.

Sizes range from 01 BCP 300mm EX and GR to 01 BCP 950mm EXILOG GR







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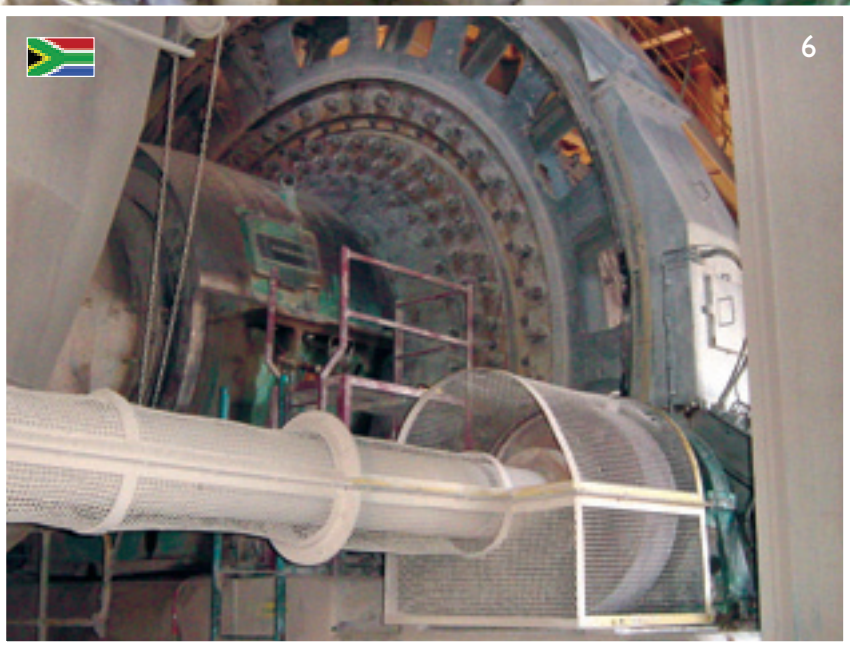

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Picture 1 and 2

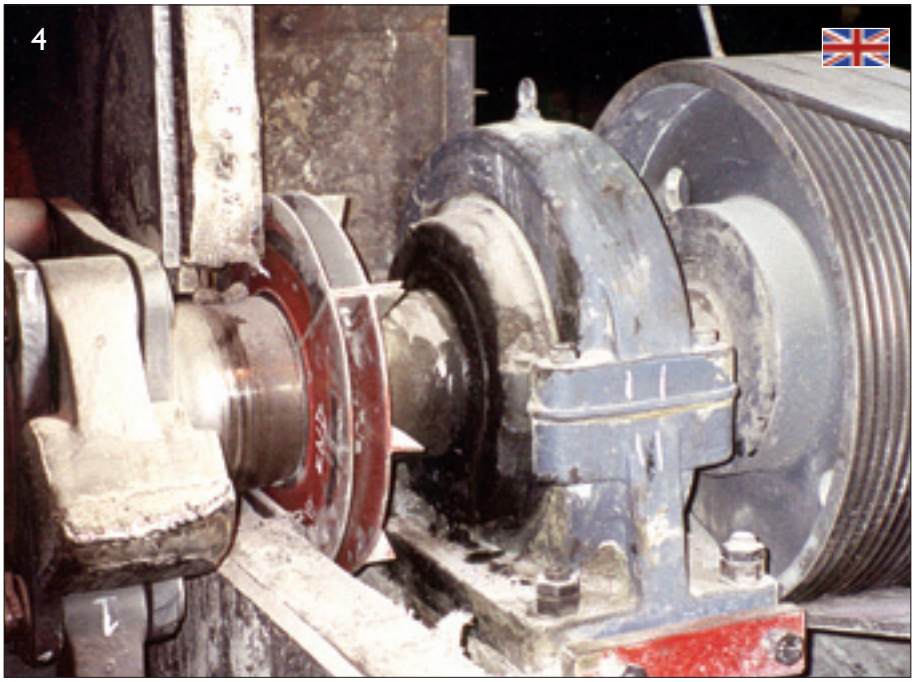
Cement kiln using 10 inch 03 Series with roller thrust bearings in the cartridge end plates which support the under rollers on the kiln. The radial load is 28 tons, the axial load 10 tons and the speed is 4-5rpm.

Picture 3

Cooper 01BH80mm EX hanger bearing in use on a gypsum products screw conveyor. This application also uses a 90mm version of the hanger bearing.

Picture 4

Detail of a cement works clinker breaker showing a Cooper 03BCP180mm GR. This machine also uses 03BCP180mm EX Expansion bearings.



Proven Sealing Capability

Cooper bearings are proven to operate effectivley in hostile and abrasive conditions.

These illustrations show Cooper bearings covered in cement dust. Non-Cooper bearings would fail prematurely in these operating conditions

External alignment ensure 360° concentricity at all times, eliminating contamination and increasing bearing life

Cooper offer a choice of seals to suit various applications and requirements. Full details are shown in our Product Catalogue.

Environmental Comment

Cooper has no control over customer product usage or operating conditions.

These images show the extreme working conditions in which Cooper bearings are able to operate effectively and return optimum performance.

Drying Cylinders

Grease lubricated 01 BCP 180mm EX (Gunmetal Cage and C5 Clearance) and GR bearings (C3 Clearance) with High Temperature Packing Seals (HTP) were seen as the ideal solution for this customer who had major concerns over the high maintenance costs of the the previously installed sleeve bearings.

The customer has also benefited from power savings by changing from sleeve bearings to Cooper split roller bearings.

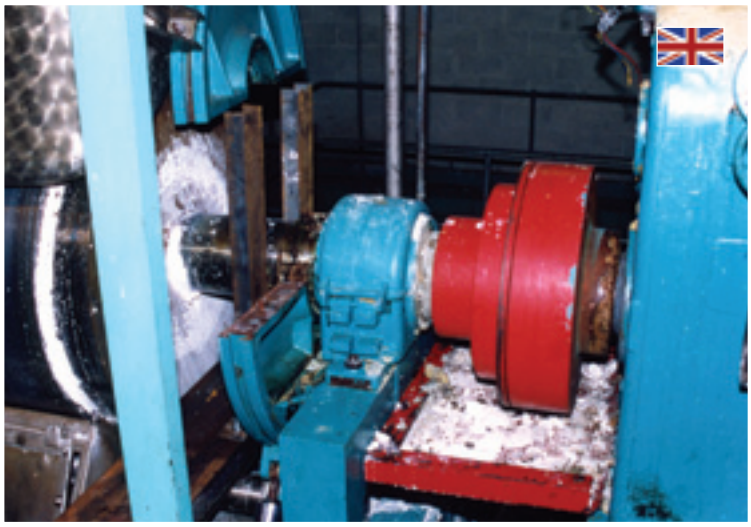
Fitted to drying cylinder suport rollers, Cooper has reduced maintenance time and maintenance overhead costs.

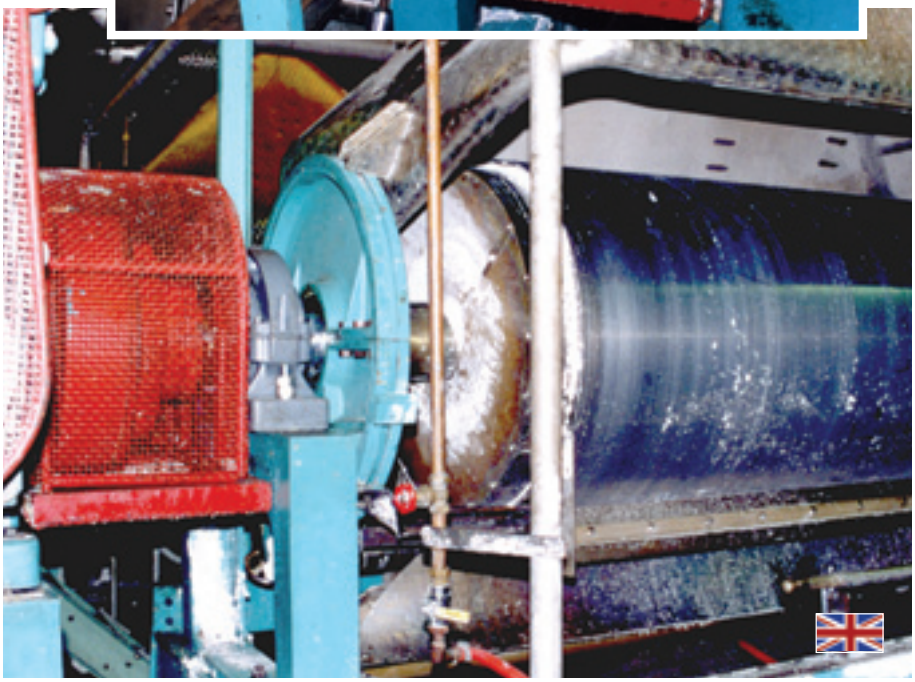
The split feature of the Cooper bearing permits access for inspection or maintenance without having to move any adjacent motors or gearboxes; the Cooper bearing is completely accessible in place.

The picture top right shows the drying cylinder with the sleeve bearing in place prior to conversion to Cooper.

The Cooper bearings were made to special dimensions to match the footprint of the sleeve bearings.

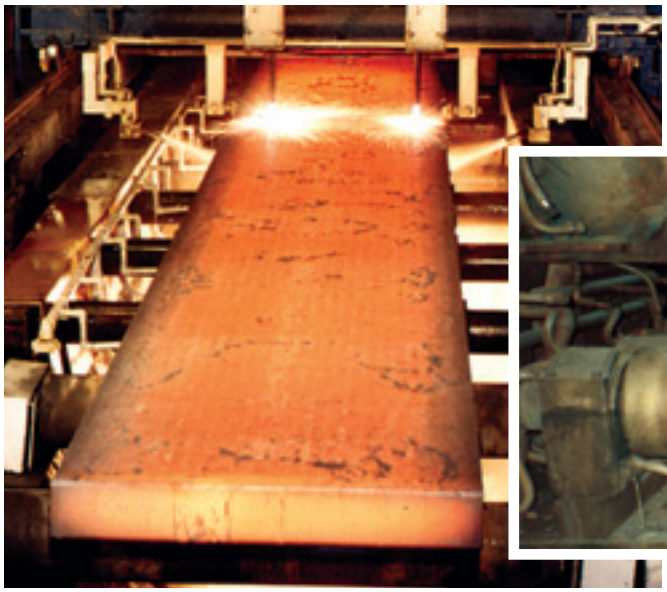
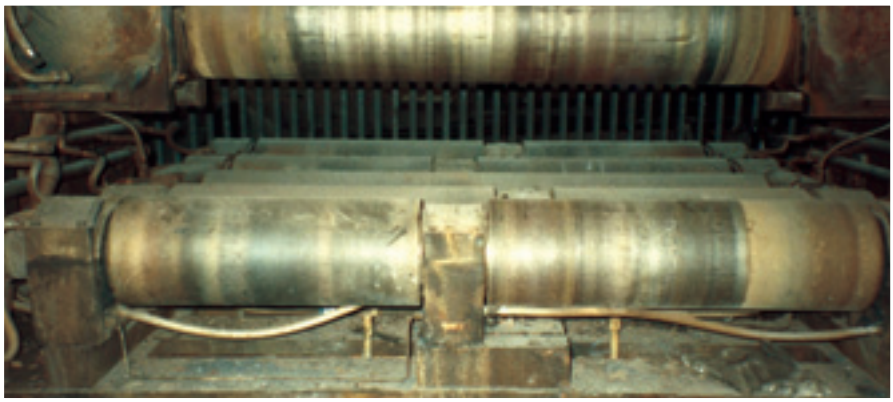
The conversion to Cooper is shown bottom right.





CONTINUOUS SLAB CASTER BEARINGS

Specialists in steel for decades, Cooper Bearings offer optimum performance, simple and speedy bearing inspection for preventative maintenance and immense downtime savings during inspection or replacement.

Cooper has long standing co-operation with steel producing OEM's and End Users around the world who include:

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Cockerill.....(Belgium)
Corus.....(UK)
CST.....(Brasil)
Danielli.....(Italy)
IPSCO.....(US)
Krupp.....(Germany)
Posco.....(South Korea)
Sandvik.....(Sweden)
SMS Demag.....(Germany)
SMS Meer.....(Germany)
Tisco.....(India)
VAI.....(Austria)