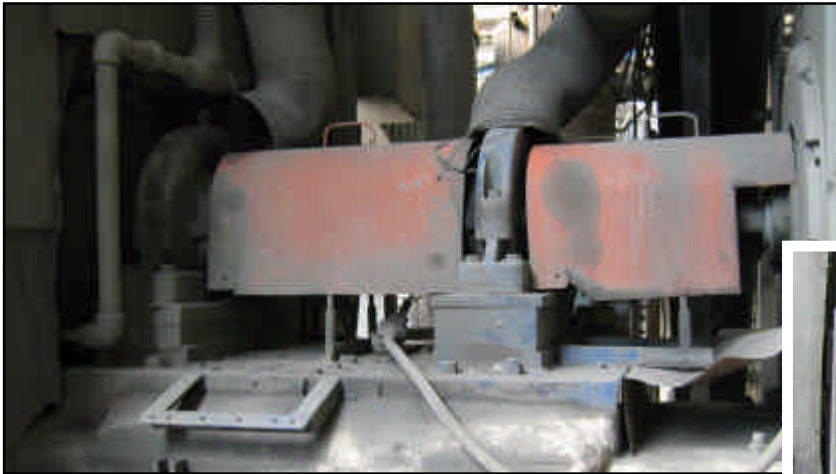
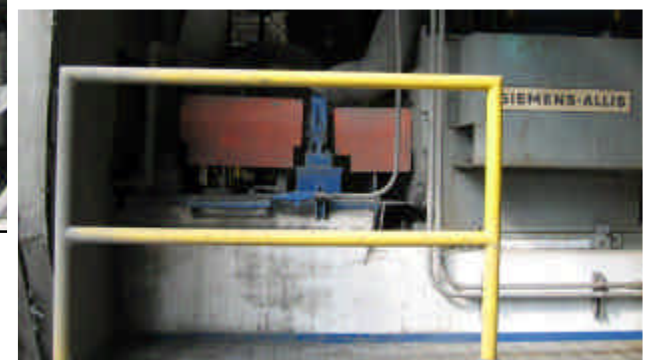


# Proven Cost Savings on Fan Operation



This fan drive shaft shows a 02 BCPM 507 (left) and a 02 BCPM 407 (center). The 02 BCP 407 is a good example of a trapped bearing position. The Cooper split to the shaft feature permits bearing assembly and inspection for maintenance without the need to remove adjacent equipment. Cooper bearings are easily accessible at all times.



**The 02 Series BCPM 507 and 407 (Bearing, Cartridge and M-Line Pedestal), 5<sup>7/16</sup>" and 4<sup>7/16</sup>" EX (Expansion) and GR (Fixed) split roller bearings replaced sleeve oil bearing on this drive shaft for a single inlet overhung fan.**

The sleeve oil bearings not only caused shaft damage, they were expensive to maintain due to oil lubrication loss and also required water cooling. The customer modified the shaft to repair the damage caused by the sleeve oil bearing prior to installing Cooper.

The use of clamp rings which prevent shaft damage was also a factor in this customer selecting Cooper. Since fitting Cooper bearings 5 years ago, the shaft has remained in pristine condition with no damage being caused by Cooper bearings.

This customer has also gained cost reduction benefits due converting to grease lubricated Cooper which do not require expensive water cooling systems. Power savings were also achieved as Cooper bearings demand less power on startup with less wear and tear on drive motors.

The hallmark split to the shaft feature provides sealing that always remains concentric to the shaft. This is achieved by using ATL (Aluminum Triple Labyrinth) seals as standard. The Cooper cartridge allows plus or minus 2.5° misalignment and the seals always remain concentric to the shaft. This feature retains lubrication and keeps out contaminants and provides optimum bearing life.

Cooper split to the shaft bearings permits easy access for installation and inspection without removal of adjacent equipment. Inspection and maintenance is carried out in the shortest possible time giving more uptime and less maintenance which contributes to higher efficiencies and profitability.

## Customer Service Centers

### 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

### 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