

Feed Mill Elevator

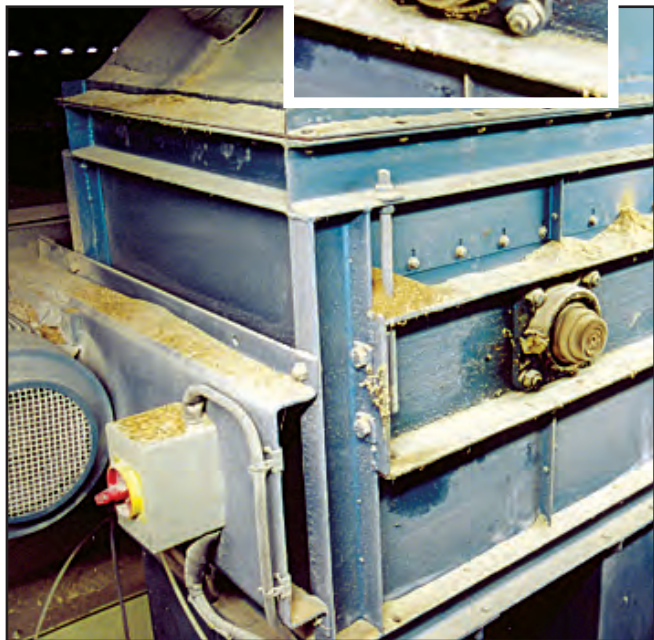
# Elevating Feed Mill Profit Levels

## The Application Problem

The removal of the roof which incurred an expensive crane hire cost was proving to be prohibitive during the 4 yearly cyclical maintenance of this feed mill elevator.

The previously fitted SF75/1075/75 bearings used on this 600 staggered bucket elevator had the 75mm, 106rpm drive shaft bearings fitted in trapped applications behind a 13-1 gear reduction box, which caused immense additional maintenance access problems.

The dry, dusty conditions of the mill environment also had a negative impact on the effectiveness of the lubrication and ultimately the bearing life.

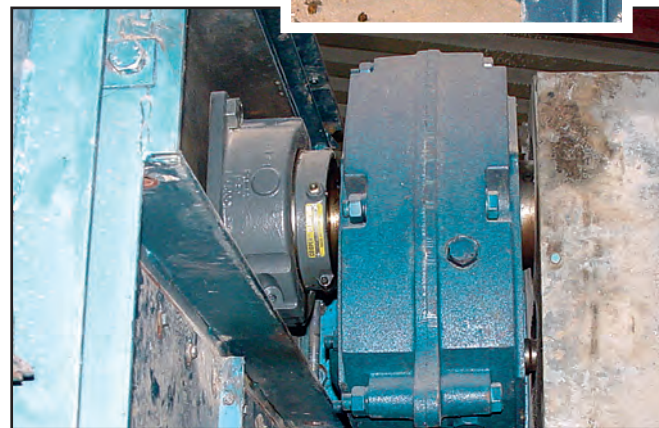


## The Cooper Split Solution

In order to reduce the customer maintenance expense, Cooper recommended 01EBCDFN 75mm EX (Expansion) and GR (Fixed) bearings.

Due to the nature of construction of the elevator cladding, it was imperative the bearing housings fitted between the strengthening flanges on cladding. This is shown clearly in the photographs below as is the very tight trapped bearing between the gearbox and the elevator. Felt seals were specified in this instance to prevent the ingress of abrasive, bearing life reducing grain dust.

The split feature of the Cooper bearing means the customer will not have to undergo the expensive removal of the mill roof and access for maintenance and inspection can be carried out at any time.



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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  
5795 Thurston Avenue  
Virginia Beach, VA 23455 - 3378  
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