



CASE STUDY

Feed processor saves thousands on maintenance by moving to Cooper split bearings

The Problem

The maintenance (4-year cycle) of a 600-bucket feed mill elevator was becoming prohibitively expensive. Each service involved hiring of a crane and removal of the roof. This was because the bearings (SF75/1075/75) were in trapped locations, with a 13-1 gear reduction box on the shaft.

In addition, the abrasive grain dust was negatively impacting the life of the bearings, threatening to increase maintenance frequency.

The Solution

It was decided that the problems arising from restricted access could be eliminated by substituting Cooper split-to-the-shaft roller bearings for the solid bearings originally installed. The bearings recommended by Cooper were 01EBCDFN 75mm EX (Expansion) and GR (Fixed).

The benefits

The new bearings (see pictures) can be dismantled and reassembled by hand. Access for inspection and greasing is simple and rapid. All the bearing parts can be lifted out from around the shaft if necessary. As a result:

- No disturbance (or even rotation) of the shaft is required
- No on-shaft items (such as the reduction box) need to be moved
- No cranes are necessary
- No removal of roof or other building parts is involved

In addition, the Cooper bearings have a self-aligning cartridge structure that aids seal integrity, helping to keep lubricant in and dust out for longer, and so to prolong bearing life.



Cooper split roller bearings: major potential savings for bucket elevators in all industries

Instant accessibility for inspection and maintenance makes Cooper bearings ideal for use in trapped locations in industries such as energy, chemicals, mining, marine, food and feed. Their robust construction and self-aligning cartridge structure underpin their resistance to deterioration even under dusty, wet or corrosive conditions.

For more information, contact us via our website www.cooperbearings.com

COOPER
SPLIT ROLLER BEARINGS

an SKF Group company

SKF

Innovation is our strongest tradition