

# CASE **STUDY**

**PERSISTENT**

**MECHANICAL  
FAILURES WITHIN  
MIXER DRIVE SYSTEM  
RESOLVED BY  
HAYLEY DEXIS AND  
STM UK**

CS186

**HAYLEY DEXIS**

**DRIVES // BUILDING MATERIALS**

Focus on **value** **TRACK  
UP**

## THE SITUATION

A producer of industrial minerals was grappling with recurring mechanical failures affecting one of their main twin mixer drive systems on-site. The planetary gearboxes within the application had failed and been repaired many times, with components such as the upper bearings not lasting beyond three months. The cost implications of this, as well as the amount of operational downtime being suffered, had become a major issue. As a result, the customer was considering completely replacing the entire machine for a new one, at considerable expense.

## THE SOLUTION

The HAYLEY DEXIS team in Exeter invited a representative of STM UK, a preferred supply partner, to attend site and attempt to diagnose the issue and pose a solution. It was soon identified that inadequate lubrication was the main cause of the persistent failures. The original manufacturer had not provided sufficient means for the upper bearings in the gearbox to be lubricated, especially given the restricted access and temperature ranges that the application is subjected to.

STM UK offered to replace both gearboxes with their own planetary

## KEY VALUE AREAS



**INCOME**



**SPEND**

units, well-suited to the application and small enough to fit within the existing footprints. An oil tank system was also designed, built and, installed within a few days of the quote being accepted to provide consistent and adequate lubrication to the bearings.

## THE RESULT

The gearboxes were able to be delivered from stock and installed quickly, as was the brand-new oil tank system that is key to preventing the lubrication-related failures from recurring.

Shortly after the new system was commissioned, HAYLEY DEXIS and STM visited the site to verify everything

“

**12 MONTHS ON  
FROM THE SWITCH  
BEING COMPLETED,  
THE GEARBOXES  
HAVE SUFFERED NO  
FAILURES.**

”



was working as planned. With positive feedback, the customer was left with the promise of further support in future should it be required. The site is already well-supported by the HAYLEY DEXIS branch for components, consumables and related services.

12 months on from the switch being completed, the gearboxes have suffered no failures. This has significantly reduced the downtime suffered by the twin mixer drive system, preventing costly revenue losses and helping to maintain production levels at the site. Now that the bearings are sufficiently lubricated at all times, their service life has been extended. As a result, costs previously mounting have now been brought under control.

## CONTACT US!

Speak to your local HAYLEY DEXIS branch today!

You can find their details by using our online Branch Finder tool:

[www.hayley-group.co.uk/branch-finder](http://www.hayley-group.co.uk/branch-finder).

## KEY BRANDS

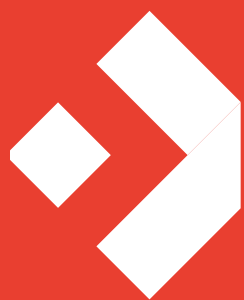


## KEY RESULTS

No recurrence of issues following work.

Costly continuing downtime avoided.

Regular component replacement stopped.



**HAYLEY**

**DEXIS**