

CASE **STUDY**

WASTEWATER TREATMENT

**PLANT SET TO
SIGNIFICANTLY REDUCE
COSTS WITH FULLY-
CUSTOMISED DRIVE
SOLUTIONS PROVIDED BY
HAYLEY DEXIS**

CS245



HAYLEY
DEXIS

HAYLEY DEXIS DRIVES // WATER

Focus on **value**

TRACK UP

KEY VALUE AREAS



SERVICES



SPEND

THE SITUATION

A wastewater treatment plant in the Midlands operates six grit tanks responsible for removing sand, gravel, silt, and other heavy inorganic particles from water, at an early stage of the treatment process.

To perform this function, the tanks require multiple Detrioter gearboxes and aerators to operate on a 24/7/365 basis to continuously deal with the incoming sewage.

Reliability was a problem on-site, with the typical service life of the Detrioter gearboxes being only four months. The short lifespan of the units was causing both the frequency of unplanned downtime and maintenance costs to get out of control.

The maintenance team on-site, contacted HAYLEY DEXIS for assistance.

THE SOLUTION

Specialists within the dedicated HAYLEY DEXIS | Drives division arranged a site visit to better understand the issues being faced by the plant and to offer a solution.

Soon after the initial visit, a solution was presented to the customer and the order was placed. This order included:

- 16 aerators assembled in-house by HAYLEY DEXIS | Drives, using a Flender gearbox and WEG motor, sprayed blue.
- 60mm and 70mm male shaft options and special half-couplings made in-house for the aerator assemblies.
- 5 Detrioter gearboxes (with a 90mm bore size) in a bespoke arrangement to suit the customer's exact requirements, including retrofit output flanges.
- Torque limiters and shear pin couplings.

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THIS ORDER
SHOWCASES THE
VALUE THAT THE
DRIVES TEAM AT
HAYLEY DEXIS CAN
PROVIDE

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THE RESULT

The work undertaken by HAYLEY DEXIS | Drives showcases the value that they can provide to customers. The solutions have been designed and re-engineered to the customers' exact requirements and will outperform and the previous units being used on the plant's grit tanks, while lasting years into the future with the correct management of its lubrication.

The new units have also been designed to be easy to install, to help to make the transition as seamless as possible.

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.

KEY SOLUTIONS

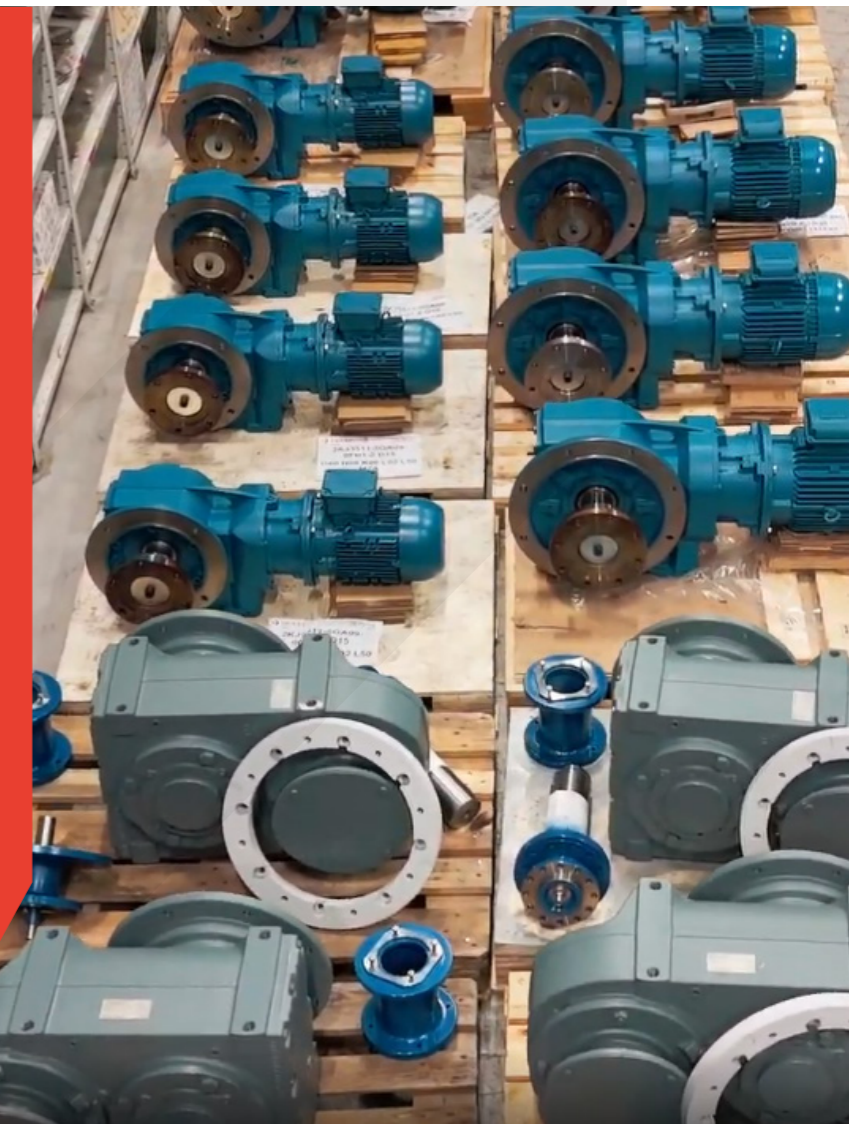
Custom aerator and gearbox assemblies from HAYLEY DEXIS | Drives

KEY RESULTS

Service life of critical gearboxes extended from four months to many years.

Mechanical reliability improved.

Maintenance costs reduced.





HAYLEY

DEXIS