



### Summary

<b>Industry:</b>	Water & Waste Water
<b>Application:</b>	Primary settlement tank gearbox system
<b>Actual Saving:</b>	Reduced lead time
<b>Payback Period:</b>	Immediate



## ERIKS Significantly Reduce Lead Time of 10 Weeks

An obsolete gearbox unit replaced with a highly efficient heavy duty unit

### ISSUE

ERIKS were asked to assist with a double reduction gearbox issue at a large wastewater company. As part of the primary settlement tanks, the gearbox unit suffered numerous failures.

To complicate matters further, there was a six to ten weeks lead time with spares unavailable for repair from the original equipment manufacturer. A solution was required from ERIKS as a matter of urgency.

### SOLUTION

Upon an initial inspection it was evident the drive system consisted of a helical gearbox and motor on which a pinion had been mounted - in turn driving a slewing ring.

After a full investigation, the ERIKS Drives team discovered the gearbox bearing had collapsed, damaging the pinion and slewing ring. The Technical Engineers suggested that a flange mounted double reduction gearbox with a new pinion and slewing ring would be the ideal solution. The engineers elected to mount the new slewing ring on top and adjust the height of the pinion.

To further improve the unit, a bespoke adaptor plate was designed and manufactured - the drive system was up and running within four days.

### OTHER BENEFITS

- Easily available spares
- Highly efficient heavy duty drive system
- Increased utilisation of available space

### FURTHER COMMENTS...

The customer is pleased with the outcome, improved gearbox reliability and reduced lead time of four days.

### MORE INFORMATION

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