



## Summary



<b>Industry:</b>	Waste & Recycling
<b>Application:</b>	Barrel washer drives
<b>Actual Saving:</b>	£10,000
<b>Payback Period:</b>	12 months

# Fenner®



## Application Redesign Improves Plant Reliability

ERIKS Know-how reduces failures and improves efficiency

### ISSUE

A large coal recycling company in the East Midlands had two large barrel washers that had been moved from one site to another. The SMSR gearbox drives on them kept failing. Various failures occurred including gear failure, bearing failure and also mounting and fixing failures.

### SOLUTION

ERIKS were called to investigate what was causing the SMSR failures. When all the drive details were taken and studied it became clear that at the previous site the motor powers had been increased without the gearboxes being changed. This also affected the wedge belt drives but these failures were being overlooked.

The details of driver and driven machine were looked at again and a new selection made, using a larger SMSR and redesigned wedge belt drives.

The problem of gearbox failure was causing problems in production and downtime. At first this was thought to be a problem with the gearboxes fitted but after looking at the application and the data it was determined the problem was down to design.

### OTHER BENEFITS

- The adaptability of the Fenner SMSR meant we could still use the same driven machine shafts
- The SMSR design enabled us to rotate the unit so that it would fit within the envelope available
- The customer now has a drive that is sized to the application after redesign.

### FURTHER COMMENTS...

ERIKS are able to offer this and came back with a selection that was correct for the application giving much longer life.

### MORE INFORMATION

#### ERIKS Industrial Services

Amber Way, Halesowen,  
West Midlands B62 8WG

Tel: 0845 006 6000

Web: [www.eriks.co.uk](http://www.eriks.co.uk)