



## CASE STUDY

### Industry

Coal Wash Plant

### Application

Medium Density Slurry Pump

### Original Drive Description

Power = 280kW @ 1475rpm  
Belts = 8 x SPC3550 V-Belts  
Driver Pulley = 8/SPC315  
Driven Pulley = 8/SPC800

Total weight\* of belt drive 200kg

\*Taper bush weight not included



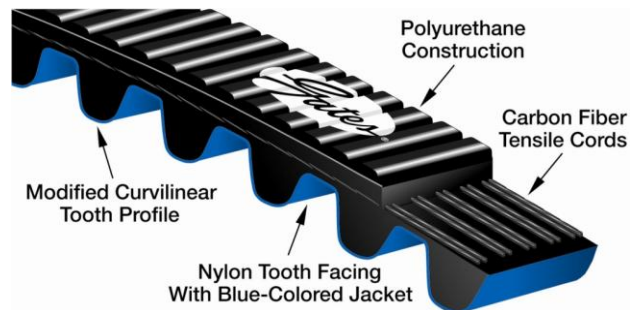
### Problem

There was 4-6 maintenance inspections per year required to check tensions and replace components. The high number of drives meant that some were overlooked. Unchecked drives lead to unscheduled maintenance and downtime costs.

### Solution Drive Description

New Belt = 14MGT-3136-90 Poly Chain® GT® Carbon™  
Driver Sprocket = 56 Tooth  
Driven Sprocket = 140 Tooth

Total weight\* of Poly Chain® GT® Carbon™ belt drive 83kg \*Taper bush weight not included



### Benefits of Gates Drive

No maintenance required as the Poly Chain® GT® Carbon™ belts do not stretch. Maintenance and downtime have been eliminated! The new drive weighs 59% less resulting in a much lower overhung load on shafts. Efficiency increase and power consumption reduction of 5% was achieved which translates to \$2000 per year savings. This site has 50 pump drives so overall savings are significant.

Submitted by: Neil Thomson