

# Qualtex

Alignment - Balancing - Mechanical services



## Regular quality service work is key to reliable plant

The Qualtex - Winstone Pulp International relationship has been cemented over the past ten months. Winstone Pulp International based outside of Ohakune has a production capacity of 150,000 ADMT per year. Terry Ashurst, Mechanical Superintendent says "The Staff at Qualtex are well known to WPI through their work previously with SKF, so it is very pleasing to see their skills retained in the industry which will ensure the continued high level of service".

Qualtex work with Winstone Pulp International covers the 12 Month Mechanical servicing of 10 MW - 11 KV drive motors to ensure the plant is able to run reliably and maintain operation at 100% until the next service.



**Above: Qualtex staff lifting bearing into 8.5 mw motor**

Terry knows the importance of regular plant maintenance, "WPI have 6 motors and all have equal importance. The loss of one motor will reduce production by 1/3".

Recently during the September planned annual service of the 8.5mw and 10mw refiner motors, Qualtex supplied a team of eight skilled technicians to complete the Mechanical Servicing. This included bearing inspections, replacements, bearing alignment and bearing insulation. Work also incorporated cleaning, pressure testing and refitting of the motor heat exchanger.

Specific work performed on the 8.5mw motor involved redefining wear patterns of the white metal bearings. This requires experience and knowledge of clearances specific to white metal bearings and correct wear patterns. Correct wear patterns are obtained by hand scraping and the use of bearing blue.

Qualtex staff work efficiently to accomplish the planned maintenance over a fourteen hour period, ensuring that the plant was ready to operate at the planned start time later that night. Whilst the focus on health and safety was never forgotten. A recent Health and Safety Audit conducted by Winstone Pulp International of Qualtex staff resulted in 100% compliance.

**The facts are simple:**

**Preventative maintenance saves you money in the short, medium and long term**

## Below: 8.5mw motor shaft exposed during service



## New SKF Energy Efficient (E2) bearings

**Have you heard about the new E2 bearings??**

These bearings are designed and manufactured specifically to consume less energy – a minimum of 30% less - in a range of applications that typically have low-to-medium load requirements. E2 design bearings are not intended as a universal replacement for SKF Explorer bearings. These are designed for higher capacity beyond standard ISO parameters.



## Is close, close enough even for the smallest of jobs?

Professional Farm Services Cambridge have been using Qualtex alignment services even before Qualtex was born!

Yes that right, in the times of SKF Mechanical services and now Qualtex, Profarms has seen the value of Laser Shaft Alignment time and time again, that's why they keep coming back!



**Above:**  
**Graham Baldwin, Profarm Services**

So what services do Qualtex provide for Professional Farm Services? Typically, precision alignment of water pumps (which take the water from Waikato River to the Waipa District Council water treatment station). Recently Russell Watson Qualtex's Senior Reliability



**Above from left:**  
**Qualtex team, Shane Pepper, Broderick Griffin, Russell Watson, Alan Fabish & Andrew Feisst**

Technician aligned a 110kw motor to a water pump. To do this Russell uses specialist Laser Alignment equipment, Pruftechnik Rotalign Ultra. This high performance equipment incorporates exclusive measurement modes that provide very accurate results for any application and enables simultaneous live monitoring for both vertical and horizontal machine corrections.

Although this is a small job of aligning the motor to pump taking approximately 2 hours, it is an essential element to increasing the operating lifespan of the rotating parts, being motor bearings, pump bearings and couplings. Graham Baldwin, Professional Farm Services Service Manager sees laser shaft alignment as *"the last part in the jig-saw"*, *"it reflects on us and our workmanship to take the punt and not get the alignment correct, simply it*

*would be leaving it to chance"*.

Precision alignment is more than increasing lifespan of components; it is piece of mind that you are not going to get a phone call in the middle of the night. *"For us at Professional Farms Services its about ticking all the boxes and looking after the interests of our clients plant and in turn looking after our clients, to do this we work with Qualtex"*. Qualtex standard practice is to present our customers with an alignment report detailing the as left and if required as found results. We know that knowledge of your machinery is key to reliability.