

HV Induction Motor Motor Overhaul

Quartzelec remove 8200kW, 11000V, 50Hz rotor onsite and conduct a comprehensive overhaul of Cat Blower Motor at the Rugby workshop, ensuring all work is completed within the strict timeframe required

OIL & GAS | SOUTH ENGLAND

Our Customer's Challenge

A major energy company in the south of the UK had a high-profile, time-critical campaign focused on upgrading the Fluid Catalytic Cracking (FCC) unit—there was a critical need to service a plant-essential Cat Blower Motor under extremely tight outage constraints.

To enable wider turnaround activities to proceed on schedule, Quartzelec was tasked with the complex removal of the motor's rotor directly from site and the complete overhaul of the Cat Blower Motor. This work required precise coordination, specialist engineering resources, and fast turnaround capabilities, executed without compromising on quality or safety and within the narrow timeframe of the client's maintenance window.

The Quartzelec Solution

To meet the demands of the maintenance and maintain progress across the FCC upgrade, Quartzelec deployed a rapid-response solution tailored to the refinery's tight schedule. Two teams of specialist engineers were mobilised to work in rotating shifts, enabling the safe and efficient removal of the Cat Blower Motor rotor directly from the site.

The rotor was then transported to Quartzelec's fully equipped Rugby facility, where it underwent a comprehensive clean, inspection, and full mechanical overhaul, including dynamic testing and balancing within a strict 2.5-week timeframe.

This was made possible through meticulous pre-planning, with detailed quality and inspection protocols agreed in advance between Quartzelec and the client. This collaborative approach ensured a smooth workflow, efficient approvals, and delivery of the highest standards without delaying the broader Lionheart turnaround programme.



Key Benefits

- **Minimised Downtime:** Specialist engineers working to ensure rapid removal of rotor with minimised disruption to plant operations
- **Comprehensive Overhaul:** Thorough cleaning, detailed inspection, and rigorous running tests ensuring the motor's reliability and long-term performance
- **Exceptional Quality Standards:** Pre-agreed detailed quality plans between Quartzelec and the client ensured high standards of workmanship and streamlined process
- **Rapid Turnaround:** Completed within a tight 2.5-week timeframe, demonstrating responsiveness and ability to deliver critical work under extreme schedule pressures.



Tight
Deadlines

Advanced
Workshop
Capabilities

Client
Collaboration