

Test Capabilities
(Location: Rugby)

As a technical authority in the field of rotating electrical machines, Quartzelec has both the engineering expertise and workshop facilities to ensure that all your testing requirements, both dynamic and static are delivered.

Following a major financial investment, the new test facility has been designed to offer bespoke testing of all types of rotating machines, gearboxes and transformers to both nationally and internationally recognised standards.

The dedicated area now has the ability to test all types of rotating machines to national and international standards.

Induction Motors

no load test on all machines up to 13.8kV. Full load motor testing up to 1120kW, up to 13.8kV max and 40-72 Hz. Simulated testing available at higher loads.

Synchronous Motors & Generators

no load, open and short circuit load tests up to 2.5 MVA and 13.8kV, 50-60 Hz.

DC Machines

all ratings up to 2000kW load and 750V for pairs of machines at any speed operating back-to-back. Limited to 1120kW, 750V up to 3600rpm for a single motor.

24 Hour Support

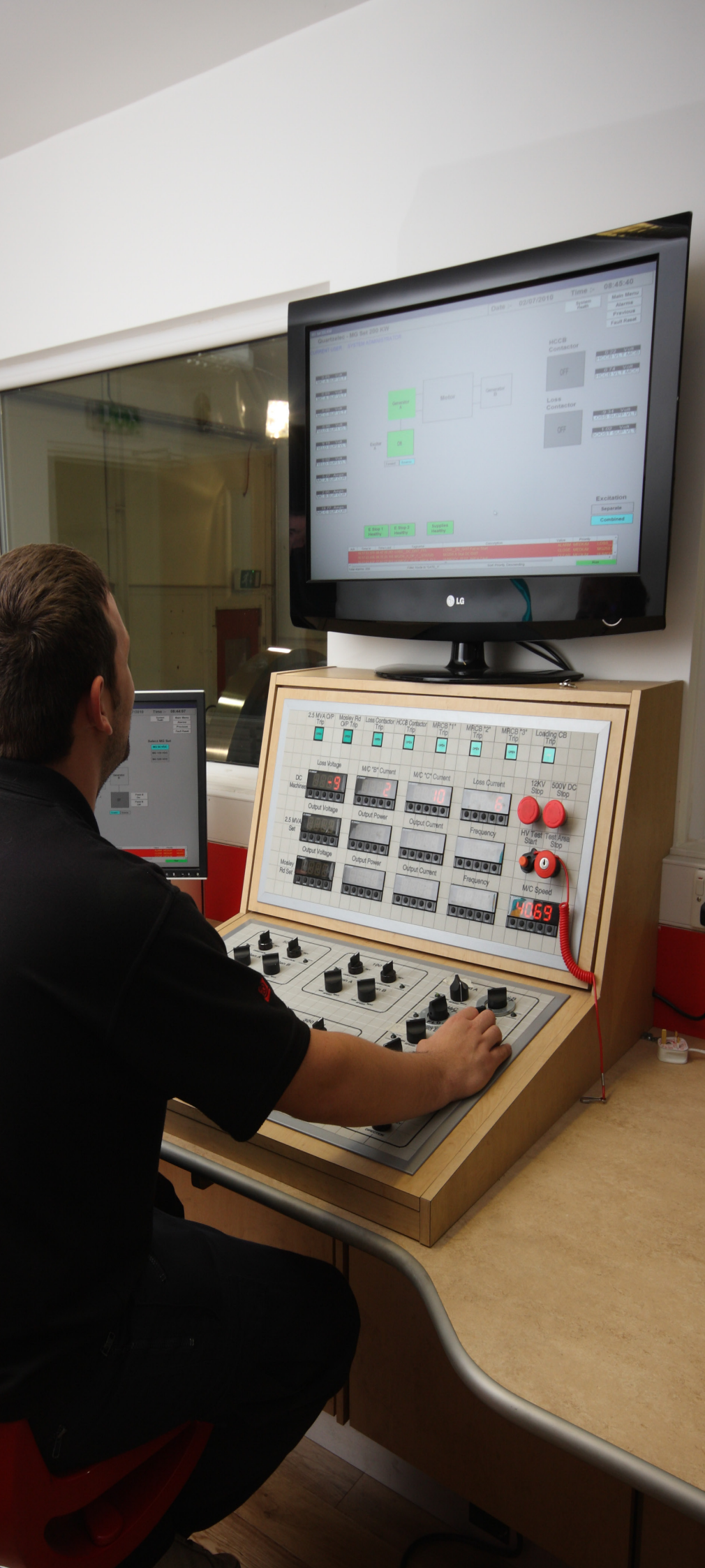
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Offering full flexibility

The newly developed test area has been specifically designed to allow full interchangeability between test sets with a range of AC and DC motor generator sets. The overhead crane capacity enables machines of up to 50 tonnes (100 tonnes combined) to be tested and a new viewing platform ensures clients can witness first hand their machines on test from the comfort and safety of a dedicated control room complete with all the latest data acquisition computer driven protocols.

Additional Capabilities:

■ Variable speed drive string tests

variable speed drive machine and control system string testing at varying loads and speeds to reduce commissioning times.

■ Gearbox testing

varying torques and speeds available for testing gearboxes and associated equipment. Light run and load tests up to 1200kW.

■ Transformer testing

transformer testing, short circuit impedance & losses, no load losses & voltage ratios.

■ Static testing

Stator winding - HV 'flash' tests up to 100kV, stator coil impulse up to 60kV, partial discharge, tan delta and wet testing to API standards

Core Assessment - ring flux test (500A, 370V) and digital EL-CID evolution

Rotor/Armature Windings - salient pole volt drop testing, high frequency interturn testing, wound rotor high current thermal test and commutator drop testing

■ Panel Testing

large test area allowing testing and commissioning of LV panels with 50 & 60 Hz supplies available.

Test Facility Supplied with:

- AC power direct from the grid
- DC power from twelve-pulse rectifier
- Instrument calibrations traceable to National Standards
- Instrument transformers better than class AL accuracy
- Analogue instruments better than precision grade
- Digital measuring & data logging for temperature measurements
- Commutator profile monitoring equipment

Our Client Base

- Joy Mining
- Bayer
- Shell
- BP / Ineos
- Transco
- Air Liquide
- Praxair

