



**WORLDWIDE  
LOAD BANK  
SPECIALISTS  
SINCE 1983**

**RENTAL**







## Our Sector Expertise

We specialise in the marine, oil & gas, data centre and power generation sectors. But we also offer load banks of all sizes, voltages or capacities for any application. Wherever the risk of power failure threatens productivity, efficiency or safety, our load banks are tried and trusted - whether it's testing the world's biggest cruise liners, commissioning gas turbines or testing offshore FPSO's.

# Welcome to Crestchic

For more than 30 years, we've been designing, manufacturing and renting load banks that provide accurate, reliable electrical test loads for commissioning and maintaining power systems.

We provide market-leading products for sale and rental to some of the world's biggest companies, backed up by our consultative service. We work with you right from specification stage, offering unrivalled quality, choice and expertise to create the right solution for your needs.

Along with our parent company, Northbridge Industrial Services plc, we're a global operation, servicing all seven continents from local offices around the world. But, at heart, we're proud to be a British company, co-ordinating everything from our Burton-on-Trent headquarters and using British materials and suppliers. All in all, this makes us one of UK manufacturing's most enduring success stories.

Read on for a brief introduction to our standard load bank (AC, DC, capacitive), transformer and control system packages. For a more in-depth discussion, please get in touch.

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# Which load bank do you need?

Load bank rental from Crestchic provides customers with flexible and convenient solutions for load testing, with a very wide range of load bank specifications and delivery options.

- Size and purpose of load required (kW/kVA)?
- Test voltage?
- AC or DC test supply?
- If AC, is it single or three-phase, what frequency?
- Resistive (Unity Power Factor) or Resistive/Reactive (0.8 Power Factor typically)?
- Is remote control required?
- Length of remote control cable?
- Load cable length?
- Load bank control type?
- Hire duration?
- Site location and type?
- Is a survey required?
- Weekday, evening or weekend time required on site?
- Installation by Crestchic?
- Do you need a Crestchic operator?

## Crestchic Rental

In addition to the manufacture of load banks, Crestchic provide a wide range of load bank rental equipment offering design, delivery and installation options, support services and accessories to complement any customer load test requirement.

As the largest specialist supplier of load banks in the world, Crestchic's rental operation supplies a range of power testing and commissioning equipment.

This can be in the form of either straight rental for customer use, right through to packaged rental where Crestchic carry out design, delivery, installation, commissioning, operation, de-commissioning and removal in partnership with the client, providing a flexible, client driven service.

Using knowledge, skills and flexibility that you would expect from the world's leading load bank manufacturer and rental company, we can work with our clients to tailor a rental package to suit your individual test parameters.

## Worldwide Applications

- Standard generator heat run
- Application and rejection of generator load
- Simulate motor starting
- Base load
- Battery discharge
- UPS systems
- Heaters (space and heat load for air conditioning tests)
- Distribution boards
- Transformers (heat rise tests)
- DC generator testing
- Frequency converters



### AC Resistive Load Banks



- Voltage from 380V to 690V
- 3 phase
- 50-60 HZ
- 30kW to 7000kW
- Multiple 1kW load steps
- IP55 control protection
- Low noise versions
- Stainless steel finned elements
- Ambient temperature operation to 50°C
- Stackable when not in operation
- ISO containers sized 10ft, 20ft, 30ft or 40ft
- Lloyd's Register-certified
- DNV containers available
- Four control variants available

### Resistive/Reactive Load Banks



- Voltage from 380V to 690V
- Typical power factor 0.8
- 50-60 HZ
- 500kVA to 6250kVA
- Multiple 1kVA load steps
- IP55 control protection
- Low noise versions
- Stainless steel finned elements
- Stackable when not in operation
- Standard canopy sizes to 300kVA
- Container packages over 375kVA
- Lloyd's Register-certified
- DNV containers available
- Ambient temperature operation to 50°C
- Reactive-only (inductive) available
- ISO containers 10ft, 20ft, 30ft or 40ft

### Medium Voltage Load Banks



- Voltages from 690V to 34kV
- 50-60 HZ
- Multiple 1kVA/1kW load steps
- IP55 control protection
- Stainless steel fans
- High ambient temperature operation to 50°C
- Stackable when not in operation
- ISO container enclosure, 10ft, 20ft, 30ft and 40ft
- Lloyd's Register-certified
- DNV containers available
- Both resistive only and resistive/reactive
- 500kVA – 3500kVA
- 500kW – 4000kW

### Capacitive Load Banks



- Leading power factor
- Simulates non-linear loads typical of telecoms, computer or UPS industries.
- Voltage 400/415V 50Hz 3-Phase
- 150kVArC and 1500kVArC
- 2.5kVArC resolution
- IP55 control protection
- Low Noise
- Power Meter

### DC Load Banks



- Voltages from: 28VDC to 700VDC
- 200A to 3165A
- 1Amp or 1kW load steps
- Push button controller
- Constant current available on some models
- Dual and multi voltage units available (Series/Parallel)
- Transportable - Castor Mounted

### Transformers



- MV & LV switchgear installed
- Cast resin or oil filled transformer options
- Fitted complete with over current and short protection on the MV breaker
- ISO fully bunded containers with save-all base
- ONAN or ONAF variants available
- High ambient temperature operation to 50°C
- Stackable
- 4 pole isolators for flexible generator connections



# Product Data - AC Load Banks

To ensure total protection, ease of movement and a long service life, all our load banks are packaged in high quality steel ISO containers. Designed around each individual load bank type for optimum cooling and access – only the highest quality containers are used.

Below, you'll find a comprehensive listing of our standard AC load bank sizes. For prices, enquiries or bespoke options, call our rental team on +44 (0)1283 531 645 or email hires@crestchic.co.uk.

## AC Load Banks

Range: 20kW - 7000kW  
Frequency: 50 - 60HZ



CP - 'Crash Pack' option available  
C - Containerised  
R/R - Resistive/Reactive  
MCS - Micro-Control System

### Auxiliary Power (Control)

Load bank control can be supplied by either the power source being tested (internal) or from a separate auxiliary supply (external).

### Cooling Fan Supply

The cooling fan can operate from the internal 'test' supply or from an external power supply.

### Cable Connections

The cable termination chamber within the enclosure is fitted with bus-bars and stainless steel nuts and bolts for connection of MV cables.

| Description          | Rating                           | Dimensions<br>L x W x H (mm) / Wt (kg) |
|----------------------|----------------------------------|--|
| 20kW Resistive       | 415V 50Hz 3ph (4x5kW Steps)      | 550 x 475 x 415 / 40                   |
| 30kW Resistive       | 400, 415V Versions 50Hz 3ph      | 800 x 500 x 500 / 60                   |
| 100kW Resistive      | 400, 415V Versions 50Hz 3ph      | 750 x 875 x 730 / 130                  |
| 110kW Resistive (CP) | 415V 50Hz 3ph                    | 795 x 920 x 820 / 180                  |
| 200kW Resistive      | 415V 50Hz 3ph                    | 820 x 875 x 1350 / 220                 |
| 300kW Resistive      | 400, 415V Versions 50Hz 3ph      | 895 x 875 x 1325 / 250                 |
| 300kW Resistive (CP) | 400, 415V Versions 50Hz 3ph      | 940 x 920 x 1420 / 340                 |
| 600kW Resistive      | 400, 415, 440V Versions 50Hz 3ph | 1550 x 100 x 1525 / 620                |
| 650kW Resistive (CP) | 415V 50Hz 3ph                    | 1580 x 1050 x 1620 / 660               |
| 700kW Resistive (CP) | 440V 50Hz 3ph (MCS)              | 1580 x 1050 x 1620 / 730               |
| 2700kW Resistive 'C' | 415V 50Hz 3ph (MCS)              | 2991 x 2438 x 2591 / 4300              |
| 3000kW Resistive 'C' | 415V 50Hz 3ph (MCS)              | 2991 x 2438 x 2591 / 4300              |
| 6000kW Resistive 'C' | 450V 50Hz 3ph (MCS)              | 6058 x 2438 x 2591 / 8400              |
| 400kVA R/R 'C'       | 400V 50Hz 3ph (MCS)              | 1200 x 1534 x 2100 / 2500              |
| 500kVA R/R 'C'       | 415V 50Hz 3ph (MCS)              | 1200 x 1534 x 2300 / 2600              |
| 875kVA R/R 'C'       | 480V 60Hz 3ph (MCS)              | 1200 x 2438 x 2200 / 3300              |
| 1.0MVA R/R 'C'       | 480V 60Hz 3ph (MCS)              | 1200 x 2438 x 2400 / 3600              |
| 1.5MVA R/R 'C'       | 400V 50Hz 3ph (MCS)              | 1900 x 2438 x 2591 / 5500              |
| 1.65MVA R/R 'C'      | 480V 60Hz 3ph (MCS)              | 1900 x 2438 x 2591 / 5600              |
| 1.7MVA R/R 'C'       | 415V 50Hz 3ph (MCS)              | 1900 x 2438 x 2591 / 6000              |
| 1.875MVA R/R 'C'     | 480V 60Hz 3ph (MCS)              | 1900 x 2438 x 2591 / 5800              |
| 2.5MVA R/R 'C'       | 11kV 50Hz 3ph (MCS)              | 6058 x 2438 x 2591 / 15100             |
| 3.25MVA R/R 'C'      | 415V 50Hz 3ph (MCS)              | 2991 x 2438 x 2591 / 8900              |
| 3.3MVA R/R 'C'       | 480V 60Hz 3ph (MCS)              | 2991 x 2438 x 2591 / 10500             |
| 3.3MVA R/R 'C'       | 690V 50Hz 3ph (MCS)              | 2991 x 2438 x 2591 / 9500              |
| 3.4MVA R/R 'C'       | 415V 50Hz 3ph (MCS)              | 2991 x 2438 x 2591 / 9100              |
| 4.3MVA R/R 'C'       | 480V 60Hz 3ph (MCS)              | 6058 x 2438 x 2591 / 14100             |
| 6.0MVA R/R 'C'       | 480V 60Hz 3ph (MCS)              | 6058 x 2438 x 2591 / 16500             |
| 6.0MVA R/R 'C'       | 690V 50, 60Hz Versions 3ph (MCS) | 6058 x 2438 x 2591 / 16400             |
| 6.25MVA R/R 'C'      | 480V 60Hz 3ph (MCS)              | 6058 x 2438 x 2591 / 17500             |
| 160kVAr Reactive     | 415V 50Hz 3ph                    | 1350 x 980 x 910 / 1000                |
| 125kVA R/R           | 208V 400Hz 3ph                   | 1390 x 1000 x 1570 / 880               |

## DC Load Banks

Voltage: 24V/100A - 700V/450A  
Dual & multi-voltage units available



| Description  | Rating                           | Dimensions<br>L x W x H (mm) / Wt (kg) |
|--------------|----------------------------------|--|
| 70kW / 2500A | 2500A @ 28V                      | 1125 x 650 x 1125 / 300                |
| 200kW        | 833A @ 240V / 417A @ 480V        | 895 x 875 x 1400 / 300                 |
| 36kW         | 600A @ 60V / 300A @ 120V         | 1050 x 650 x 950 / 170                 |
| 664kW        | 1897A @ 350V / 948A @ 700V       | 1750 x 1025 x 1520 / 650               |
| 664kW (CP)   | 1897A @ 350V / 948A @ 700V (MCS) | 1850 x 1050 x 1620 / 800               |
| 42kW         | 1500A @ 28V                      | 1025 x 600 x 800 / 172                 |
| 633kW        | 3165A @ 200V                     | 1550 x 1000 x 1525 / 650               |
| 8.4kW        | 300A @ 28V                       | 725 x 625 x 600 / 30                   |

CP - 'Crash Pack' option available

## Transformers

Range: 2,000 - 8,000kVA  
Voltage: 600V - 34.6kV



| Description                      | Rating                                  | Dimensions<br>L x W x H (mm) / Wt (kg) |
|----------------------------------|---|--|
| 2.5MVA Multi-Voltage             | 2.54kV - 14.25kV / 433/520V 50/60Hz     | 2991 x 2438 x 2591 / 9500              |
| 5.0MVA Fixed                     | 11kV / 433V 50Hz                        | 6058 x 2438 x 2591 / 17500             |
| 5.0MVA Multi-Voltage             | 2.54kV - 14.25kV / 433/520V 50/60Hz     | 6058 x 2438 x 2591 / 18500             |
| 7/8.0MVA Multi-Voltage (Step Up) | 2.88kV - 14.4kV / 400 50Hz / 480V 60Hz  | 6058 x 2438 x 2591 / 22000             |
| 7/8.0MVA Multi-Voltage (Step Up) | 8.66kV - 34.64kV / 400 50Hz / 480V 60Hz | 6058 x 2438 x 2591 / 25400             |

Available in step-up or step-down, our transformer range from 2000kVA to 8000 kVA, with voltages from 400V to 34.6kV. All are fitted into custom designed, purpose built containers that enhance their performance and offer unrivalled protection.

## Capacitive Load Banks

Voltage: 400 - 415V  
Frequency: 50 - 60HZ



| Description | Rating        | Dimensions<br>L x W x H (mm) / Wt (kg) |
|-------------|---------------|--|
| 150kVArC    | 415V 50Hz 3ph | 1340 x 925 x 935 / 280                 |
| 1500kVArC   | 415V 50Hz 3ph | 2635 x 1040 x 1800 / 1380              |

Capacitive load banks provide a means to simulate electronic or non-linear loads typical of telecommunications, computer or UPS industries, by creating a leading power factor. Since its introduction, Crestchic has supplied its latest testing equipment - specifically to data centres, in locations around Europe and Internationally. This significant move in the rental business to provide testing at leading power factors keeps Crestchic at the very forefront of the market.



## Control Systems

The best load banks in the world are nothing without precise, intuitive controls for both application and operator. Thankfully, Crestchic can deliver the best system for your exact needs.

These are one of Crestchic's key strengths: intelligent systems giving you perfect control over your load bank. And we can work with you to find your ideal system – whether it's our latest software, such as Eclipse or Corona, which include a host of control and reporting tools for advanced use, or one of our pre-set panels or handheld terminals.

Our multilingual control systems cover basic manual controls, microprocessor controls and DC controls, offering a range of handheld controllers, software and units. Explore our systems below, or to discuss your best options, call us on +44 (0) 1283 531 645 or email [hires@crestchic.co.uk](mailto:hires@crestchic.co.uk).

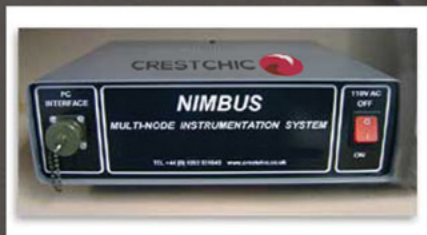
## Monitoring Systems

### Nimbus MV Monitor

The MV monitor allows real-time graph and data capture by a low voltage and current signal reference connecting direct to the MV switchboard or generator.

The system allows accurate data capture, avoiding losses associated with step-down transformers and load cables.

- Working voltage range 380V to 25kV
- Accurate and real data capture
- Use with the PC system full report printing



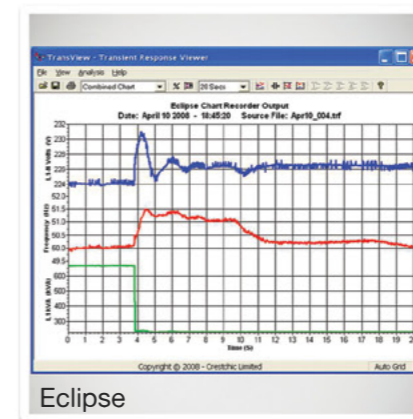
KCS

A simple, efficient PCB multi-step system, with handheld or panel mounted options, allowing 1kW load steps.



HHT

The HHT100 hand held field controller is suitable for all micro-processor controlled load banks, providing portable, robust control up to 100m, with basic instrumentation, pre-set load programmes and M-start facility.

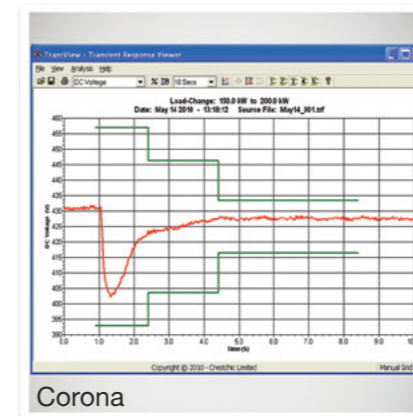


Eclipse

Our state-of-the-art software is ideal for more complex testing scenarios where accurate, real-time data capture and ultra-precise control of one or more load banks in a familiar windows environment is preferred.

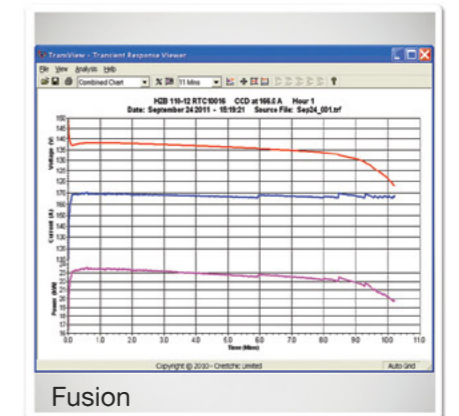


Modbus communication protocol is available as a cost option on all AC microprocessor controlled load banks.



Corona

Our cutting-edge software for DC load banks works with a high performance microprocessor for accurate control, monitoring, and data sampling over multiple DC load banks via PC or HHT100.



Fusion

Equips DC load banks for performing constant-current or constant-power discharge tests, coupled with monitoring, data capture and reporting. Again, control is available for multiple load banks via PC/HHT100.



## Service and Support

With close to 30 years of load bank manufacturing, Crestchic support their load banks of varying sizes and age across the world.

Our service contracts help keep your Crestchic load bank in peak condition with regular maintenance and software upgrade visits scheduled at your convenience. Our data module calibration service ensures that the applied electrical load is accurate over a 12 month period, with traceability to UKAS laboratory standards.

- Preventative scheduled maintenance
- Priority call outs for contract customers
- Telephone support
- Parts support
- Software support and upgrades
- Data module calibration



## Accessories

- Load cables: typically 35, 70, 95 and 150mm<sup>2</sup>. Cables are installed in accordance with current legislation: for large and long-duration load bank installations, cables are installed on cable tray, trefoil and tied.
- Load bank control extension reels.
- Cable junction boxes.
- Eclipse laptop alternative load bank control, for additional load features and data capture.
- Medium voltage 'Nimbus' MV monitor and load data capture equipment; avoids losses associated with cables and transformers.
- Auxiliary generators for load bank fans and control systems.
- Medium and low voltage qualified load bank operators.

## Delivery and Installation options

Crestchic's standard installation service includes: delivery, installation, de-installation and collection of load bank packages. as an alternative, Crestchic supply 'delivery only', where the equipment is delivered and collected with customers doing their own installations and operation.

Crestchic can supply load bank operators if required.

## Support Services

- Crane lorry delivery
- Site surveys
- Layout drawings
- Risk assessments
- Method statements
- Full project management
- Logistics assistance: vehicle permits, road closures and environmental issues
- 24-hour service support
- Fully owned Crestchic vehicle fleet and driver for installations readily available



## Applications

Load banks are utilised across a multitude of locations and environments around the globe. The details below outline some of our more common applications.

### Health

Hospitals require a constant uninterrupted power supply, but a UPS system or building generator that is untested could have more than just financial ramifications should it fail.

Load banks from Crestchic can test the power for continuity and reliability.



### Marine

Crestchic's highly specialised load banks are widely used for the testing of Gensets - Gas Turbines - UPS & DC systems, making them a popular choice for the shipbuilding sector.

With rugged ISO containers, Crestchic's load banks are built for the marine environment.



### Oil & Gas

Crestchic has been testing diesel and gas turbines for over 30 years' in the oil and gas sector.

Our load bank and transformer packages are used to commission main power packages found on new build platforms and FPSOs.



### Facilities Management

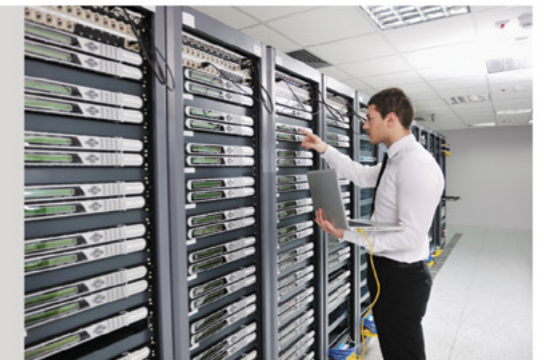
Power failures due to poor maintenance and testing leads to loss of valuable data, decreases productivity and increases production time.

A full test using a Crestchic load bank is essential for business continuity planning and should be completed before any assumption of risk.



### DataCentres

Using a Crestchic load bank to simulate power failure under full demand to ensure that the controls and switch panels work as expected in real conditions, and that the automatic transfer switch that regulates the main loads continues to operate in sequence is a crucial element in the smooth operation of a data centre.





# Crestchic Rental Case Studies

FACILITIES

## 25 Cabot Square



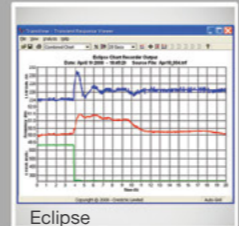
Duration : 1 Week

Low and MV Cabling

5.6MVA, 11kV, 3ph 50Hz  
0.8pf Load Test



### Crestchic Provision:

|   |  |  |
|---|--|--|
| <p><b>Load Banks:</b></p> <p>1x 6.0MVA (20ft)<br/>1x 3.3MVA (10ft)</p> <p>Achieved Resistive and Resistive/Reactive at 0.8pf.</p>  | <p><b>Transformers:</b></p> <p>1x 2.9MVA<br/>1x 5.8MVA</p> <p>Operating a 6.6kV, 60Hz, 3-phase system.</p>  | <p><b>Additional resources:</b></p>  <p>Eclipse</p>           |
| <p><b>Testing result:</b></p> <p>Full test and commissioning of the system to prove reliability of the UPS.</p>   | <p><b>Testing requirement:</b></p> <p>To test synchronisation of backup generators and test individually on full load for Morgan Stanley. Work undertaken out of hours at the weekend</p>    | <p>Eclipse software operated via laptop control to enable high speed data capture, transient recording and pre-programmable load bank tests.</p> |

MARINE

## Malta Dry Docks




Duration : 8 Weeks

Low and MV Cabling

8.6MVA, 6.6kV, 3ph 60Hz  
0.8pf Load Test



### Crestchic Provision:

|  |  |  |
|--|--|--|
| <p><b>Load Banks:</b></p> <p>2x 6.0MVA (20ft)</p> <p>Achieved Resistive and Resistive/Reactive at 0.8pf.</p>  | <p><b>Transformers:</b></p> <p>3x 5.8MVA (20ft)</p> <p>Operating a 6.6kV, 60Hz, 3-phase system.</p>         | <p><b>Additional resources:</b></p>  <p>Eclipse</p>           |
| <p><b>Testing result:</b></p> <p>Full test and commissioning of the system onboard the newly refurbished Fairmont Fjord semisubmersible heavy transport vessel.</p>                              | <p><b>Testing requirement:</b></p> <p>Testing of 3 Wartsila type 32 (3,690kW) generators using low and mv cabling. A Crestchic Engineer also oversaw the installation and testing process.</p> | <p>Eclipse software operated via laptop control to enable high speed data capture, transient recording and pre-programmable load bank tests.</p> |

DATACENTRE

## Major DataCentre



Duration : 20 Weeks

Low Voltage Cabling

4.8MVA, 400V, 3ph 50Hz  
Load Test



### Crestchic Provision:

|  |   |  |
|--|---|--|
| <p><b>Load Banks:</b></p> <p>67x 72kW</p> <p>Achieved Resistive and Resistive/Reactive at 0.8pf.</p>  | <p><b>Modifications:</b></p> <p>Load banks were specially modified to operate in banks of 4 and 5 units to evenly distribute load and heat.</p>                           | <p><b>Additional resources:</b></p>  <p>KCS Control System. Load steps in 1kW / 1KVA for accurate application and rejection of load.</p> <p>10m of low voltage cabling.</p> |
| <p><b>Testing result:</b></p> <p>Full test and commissioning of the system at a new multi-million Euro data-centre in Ireland.</p>   | <p><b>Testing requirement:</b></p> <p>Testing UPS, backup system, air conditioning/environmental systems by providing a heat and load test using low voltage cabling.</p> |  |

OIL & GAS

## BP (PDQ)



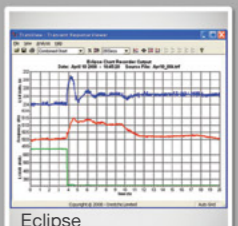
Duration : 10 Weeks

Low and MV Cabling

12.5MVA, 6.6kV 3ph 60Hz  
0.8pf Load Test



### Crestchic Provision:

|  |  |  |
|--|--|--|
| <p><b>Load Banks:</b></p> <p>3x 6.0MVA (20ft)</p> <p>Achieved Resistive and Resistive/Reactive at 0.8pf.</p>  | <p><b>Transformers:</b></p> <p>3x 5.8MVA</p> <p>Operating a 6.6kV, 60Hz, 3-phase system.</p>                | <p><b>Additional resources:</b></p>  <p>Eclipse</p>         |
| <p><b>Testing result:</b></p> <p>Full test and commissioning of the system onboard the BP Production, Drilling and Quarters (PDQ) platform in East Azeri.</p>                                      | <p><b>Testing requirement:</b></p> <p>Testing one generator set of Rolls Royce RB211 turbines using low and mv cabling. A 200KVA aux. supply generator and Crestchic Engineer were supplied.</p> | <p>Eclipse software operated via laptop control to enable high speed data capture, transient recording and pre-programmable load bank tests.</p> |



## Contact and Locations

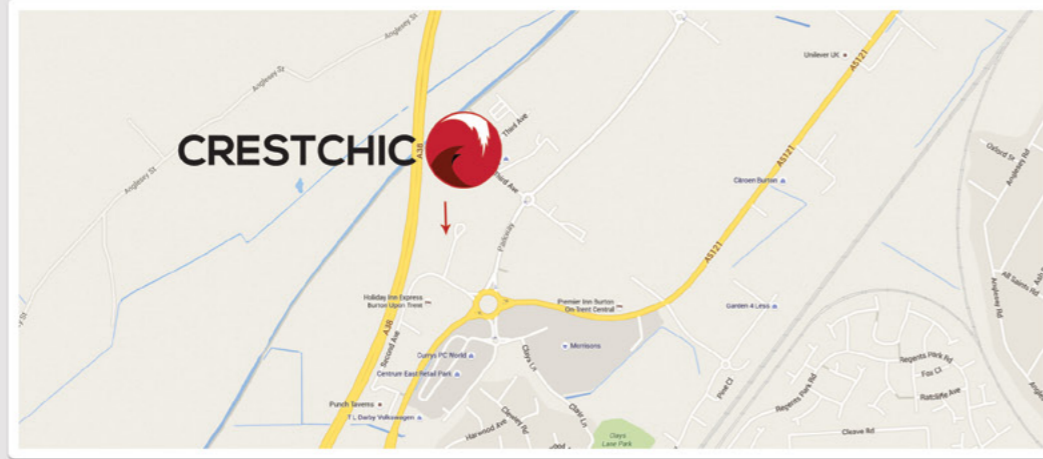
With sales and rentals offices in the UK, North America, Singapore, Netherlands, France, Germany, India, Brazil and Dubai, Crestchic are the largest load bank specialists in the world.

Design and service that's second to none - Crestchic has the expertise and capability to develop tailor-made testing solutions that meet all your requirements, wherever you are. From standard size resistive and reactive load banks or custom-designed and built load banks of any size at any voltage and frequency.

Delivering load banks to all seven continents - No other company specialises in worldwide load bank supply like Crestchic. In fact, Crestchic load banks have been operationally successful in all seven continents and are reliably testing power supplies every day in locations and climates all round the world, from temperate to jungle, desert to snow, off-shore to high altitude.

### UNITED KINGDOM

(Head Office)



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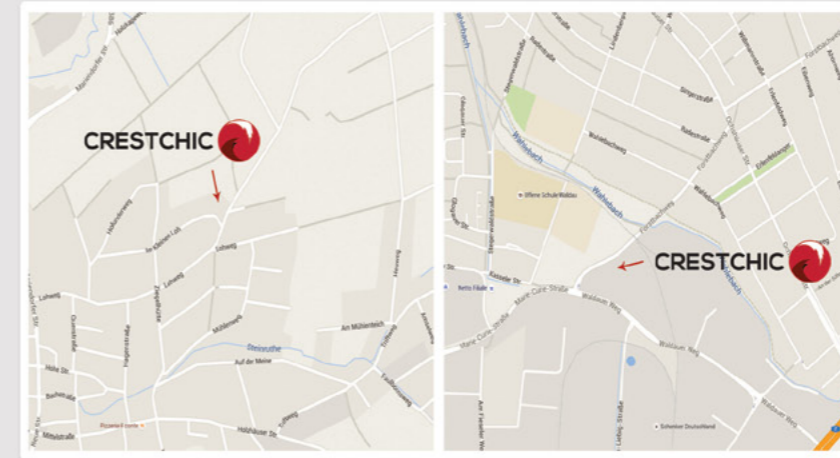


### GERMANY

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