



Crestchic Loadbanks
WORLDWIDE LOADBANK SPECIALISTS

Sales and Rental

OIL & GAS

**“Power testing solutions for the
oil and gas production industry”**

Loadbanks for turbines and diesel generator
electrical load testing

Keeping Industry's Power On Line



Loadbanks, manufactured by Crestchic Limited, provide a means to commission, test and service all types of power sources, including generators, turbines, batteries and fuel cells.

They do this by providing an electrical load which can be controlled remotely and simulate demand in real operating conditions.

Loadbanks can provide a variable resistive load (kW), a resistive/reactive load (kVA) at a variable or fixed power factor, or alternatively a DC load for the discharge of batteries.

Crestchic's loadbanks vary in size from 30kW to 6000kVA and are designed to operate at 3 phase, 50 or 60Hz. The larger units are containerised and transportable. Being modular, they can be linked together to provide loads of 50MVA and above.

Crestchic Loadbanks can be used at voltages typically AC 380V, 600V, 3.3, 4160, 6.6, 11 and 13.8kV 50/60Hz.





12.5MVA Loadtest on the W.A Platform in Baku

Testing turbines on oil and gas platforms

Crestchic has many year's experience supplying loadbanks for the testing and commissioning of gas turbines and diesel generators in the oil and gas industries. Crestchic has been involved in large projects around the world and has recently successfully completed a 50MVA test for an onshore oil pumping station in the Far East.

Crestchic can provide a loadbank solution that is used to commission main power packages found on new build platforms and FPSOs. These packages allow the operator to mimic the actual load requirements for the efficient installation of all power and energy management systems.

Crestchic Loadbanks can also be used on existing operational platforms and FPSOs, as a form of generator and turbine maintenance and in some cases as a baseload, enabling the power generation to run efficiently.

The loadbank testing involves incremental steps up to full load, to check turbine parameters for both fuel consumption and different types of fuel. In addition, monitoring vibration, temperature and airflow will ensure peak efficiency once the facility is on station and working to capacity.

At the same time, it is possible to simulate the effect of a large block load being introduced or withdrawn, e.g. a pump or compressor, measuring the recovery interval ('transient response') until the engine speed returns to normal.

This migrates against the risk that the engine does not recover and the alternator fails.

The largest specialist loadbank manufacturer in the world, our products and services are supported by unparalleled knowledge, expertise and understanding of your needs.

Technical Details

- Resistive loadbanks from 2kW to 6000kW.
- Resistive/Reactive loadbanks from 250kVA to 6000kVA.
- Simple manual controls or a programmable microprocessor based system using a laptop as a remote control terminal, incremental 1kW/1kVA load steps. Intelligent paralleling of loadbanks with flexible reporting using full on-screen instrumentation and print-out of test data.
- Designed to operate at 3 phase 50 or 60Hz, unity (1.0) power factor (resistive) or 0.8 lagging power factor (resistive/reactive).
- Standard voltages of 380 volts to 480 volts, with other voltages available.
- Rated for continuous operations in ambient temperatures of up to 50°C.
- Loadbanks built into ISO type containers have fork lift pockets and twist lock corners for easy handling.
- All loadbanks are built to a high industrial standard in the UK and the manufacturing processes are certified to BSEN ISO 9001.
- Packaged transformers are available from 2.9MVA to 5.9MVA, oil cooled, supplied in ISO type containers with integral MV and LV switch gear. Suitable for either 'step up' or 'step down' operations at voltages from 2.5 to 15kV.



All Weather



Compact



Rugged



Crestchic Loadbanks
WORLDWIDE LOADBANK SPECIALISTS

Crestchic Ltd, 2nd Avenue, Centrum 100,
Burton-on-Trent DE14 2WF United Kingdom

SALES

Tel: +44 (0) 1283 531 645

Fax: +44 (0) 1283 510 103

Email: sales@crestchic.co.uk

RENTALS

Tel: +44 (0) 1283 531 645

Fax: +44 (0) 1283 540 029

Email: hires@crestchic.co.uk