

## WHY USE A LOADBANK?

Over time, lightly loaded generator sets develop wet-stacking and carbon build-up in the combustion chambers and exhaust system. The use of a loadbank helps prevent this and determines the generator's capability to produce maximum output in terms of amperage and horsepower. The impacts of low load running potentially include:

- Increased lube oil consumption
- Poor engine performance
- Increased fuel consumption
- Crankcase pressurisation

### Resistive Only

- kW Rating (unity p.f)
- Tests the engine

### Resistive/Reactive

- kVA Rating (typically 0.8 p.f)
- Tests the engine and the alternator

For engine only exercising and general engine maintenance a resistive only loadbank is ideal for clearing carbon build-up in the engine, it is the most common and cost effective option for preventative maintenance.

To test the engine and alternator typically at 0.8 power factor a resistive/reactive loadbank can simulate a building load, it should be used if the generator is being paralleled with a utility but can also be used for preventative maintenance. Whilst a more costly option it gives a more accurate indication of the overall generators health and performance.



### Benefits to loadbank testing

- Peace of mind – will the generator work when needed
- Regular load testing can increase the life and reliability of a generator
- Proves performance of the generator (resistive/reactive required for 0.8pf)
- Aids commissioning of generators for utility paralleling applications (resistive/reactive)
- Safe replication of emergency situations for new systems
- Demonstrate engine output for overhauled engines

It is beneficial to have finite control of your equipment. Our controllers offer:

KCS



The Crestchic KCS100 controller will allow load to be applied in increments from 1kW to 100% of generators rated load using thumbwheel selectors, a simple and straight forward controller this is ideally suited for generator maintenance applications.

LC60



With our enhanced microprocessor based Eclipse control system comes a greater level of control and flexibility, this can be combined with our PC software package to offer data capture of transients during a generator test.

# How can owning a loadbank benefit your business?

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A loadbank can benefit your business in a number of ways:

- Ability to PDI your generators when they arrive
- More self-sufficient and less reliant on others for your loadbank needs
- Witness testing generators at your premises
- Provide loadbank(s) for customer site tests
- Preventative maintenance running for generator rental applications
- Become a natural partner for your clients testing requirements

Additional services could include:

- Secure an additional revenue by hiring out your loadbank
- Maximising customer potential i.e. generator supply, installation, commissioning and long term maintenance provider with loadbank testing
- Enhanced service revenue



## About Crestchic

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For in excess of 30 years we have been designing and manufacturing loadbanks that provide accurate, reliable electrical test loads for land based and marine applications, this is further complimented by a range of packaged transformers.

From our headquarters in the UK we manufacture, sell and hire our loadbanks globally.

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