

# WORLDWIDE LOAD BANK SPECIALISTS SINCE 1983





## 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 40 years, we've been designing and manufacturing 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.

As one of the country's most enduring manufacturing success stories, we coordinate our global operations from our UK headquarters, with local offices around the world serving all seven continents. We pride ourselves on continual investment in our people, our fleet and our product development, and on sourcing the finest components via our European supply network.

Read on for a brief introduction to our standard resistive and resistive/reactive containerised and canopied load banks, transformers and control systems. For a more in-depth discussion, please get in touch

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# Load Banks

We manufacture an unrivalled choice of resistive and resistive/reactive load banks. Our containerised load banks lead the market in terms of control, rugged construction and global installed base. Crestchic containerised load banks enable businesses from shipbuilders to power generation companies to accurately test, commission and maintain vital operations.

Our purpose-designed air-cooled AC load banks are available in resistive form, or resistive/reactive for replicating a lagging power factor for complete engine and alternator testing. Both types are available in a range of sizes and specifications housed in ISO style mini, 10, 20, 30 & 40ft containers, and all are flexible enough to be used with your preferred control system.

## AC Resistive Load Banks

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- Voltage from 380V to 690V
- 3 phase
- 50-60 HZ
- 1000kW to 7000kW
- Multiple 1kW load steps
- IP55 control protection
- Low noise versions
- Stainless steel finned elements
- Ambient temperature capacity rating at 50°C
- Stackable when not in operation
- ISO containers sized 10ft, 20ft, 30ft or 40ft
- Lloyd's Register-certified
- Ferroglass insulated bulkheads
- Stainless steel louvres and galvanised exhaust outlets.
- All weather outdoor operation

## AC Resistive/Reactive Load Banks

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- Voltage from 380V to 690V
- Typical power factor 0.8
- 50-60 HZ
- 375kVA 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
- Ambient temperature capacity rating at 50°C
- Reactive-only (inductive) load banks available
- ISO containers sized 10ft, 20ft, 30ft or 40ft
- Ferroglass insulated bulkheads
- Stainless steel louvres and galvanised exhaust outlets.
- All weather outdoor operation





## Quality without compromise

**Our containerised load banks are characterised by one thing above all: quality.**

At every stage of our supply chain, from raw material to finished item, we work with established, worldclass suppliers and implement our own uncompromising quality control processes to ensure that our products perform better and last longer.

# Medium Voltage Load Banks

When it's essential to test medium voltage equipment but you're working with a small footprint, our state-of-the-art MV products combine load banks and transformers into one ideal, containerised solution.

Available in both resistive and resistive/reactive forms, our AC MV load banks can be custom-designed to your exact voltage, frequency and capacity needs, alongside the flexibility to use a control system best suited to you.

## Medium Voltage Load Bank



- Voltages from 690V to 34kV
- 50-60 HZ
- Multiple 1kVA/1kW load steps
- IP55 control protection
- Stainless steel fans
- Ambient temperature capacity rating at 50°C
- Stackable when not in operation
- ISO container enclosure, 10ft, 20ft, 30ft and 40ft
- Lloyd's Register-certified
- Both resistive-only and resistive/reactive
- 500kVA – 3500kVA
- 500kW – 4000kW
- Ferroglass insulated bulkheads
- Stainless steel louvres and galvanised exhaust outlets.
- All weather outdoor operation

## Custom containerised solutions

We're unique because we don't settle for 'off the shelf'.

To enhance our products' performance, every container – from 10ft to 40ft – is purpose-built, providing greater strength, protection and airflow for cooling. They're also easy to move and stackable.





# Containerised Transformers

Our services go beyond load banks. To provide a complete solution for temporary power generation, as well as to complement our load banks, we provide containerised transformers to suit your needs.

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

## Containerised Transformers

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- 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 bonded containers with save-all base
- ONAN or ONAF variants available
- Stackable
- 4 pole isolators for flexible generator connections





## Controlled by you

Every situation you may face is unique – so every control system should be too.

We don't simply hand you a terminal and leave. We work with you to assess your needs and create the most suitable load bank, container and control combination, whether you're using one small DC load bank or multiple AC resistive/reactive units.



# 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 ORION software, which includes 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 **sales.uk@crestchic.com**.

## Microprocessor Controls

- **Handheld Terminal:** The LC80 controller is an IP65 lightweight handheld field controller suitable for both AC resistive and resistive/reactive load banks, which operates our dedicated load bank control software, ORION.
- **ORION Interface:** 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 loadbanks in a familiar windows environment is preferred.
- **Modbus Interface:** Modbus communication protocol is available as a cost option on all AC microprocessor controlled load banks.

## Basic Manual Controls

- **KCS Push-Button/Dial Control:** A simple, efficient PCB multi-step system, with handheld or panel mounted options, allowing 1kW load steps.
- **Manual Fixed-Steps Load Control:** A low-cost, ultra-simple, pre-set control with no external connections.
- **LoadTrakker II:** Where a resistive only load bank is required to follow a variable load providing additional load for equipment health or tariff augmentation in the wind turbine market.

## DC Load Bank Controls

- **Corona Control System:** 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 LC80.
- **Fusion Battery Discharge System:** Equips our 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 or LC80.

KCS



LC80



# Containers & Sizes

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 containerised load bank sizes. For prices, enquiries, bespoke options or smaller canopy sizes, call our team on **+44(0)1283 531 645** or email **sales.uk@crestchic.com**.

1

## Resistive Containerised Load Banks

Voltage: 380-690v  
Frequency: 50-60HZ



KW at 1.0pf	Dimensions L x W x H mm	Fans
1000	2438 x 1200 x 2400	3
1200	2438 x 1200 x 2400	3
1500	1900 x 2438 x 2591	4
1600	1900 x 2438 x 2591	4
2000	2991 x 2438 x 2591	6
2500	2991 x 2438 x 2591	6
3000	3720 x 2438 x 2591	8
3200	3720 x 2438 x 2591	8
3500	3720 x 2438 x 2591	8
4000	6058 x 2438 x 2591	10
4500	6058 x 2438 x 2591	12
4800	6058 x 2438 x 2591	12
5000	6058 x 2438 x 2592	12
6000	6058 x 2438 x 2593	16

2

## Resistive / Reactive Containerised Load Banks

Voltage: 380-690v  
Frequency: 50-60HZ



kVA at 0.8pf	KW at 0.8pf	Dimensions L x W x H mm	Fans
375	300	1534 x 1200 x 2100	1
500	400	2438 x 1200 x 2300	1
750	600	2438 x 1200 x 2300	2
1000	800	2438 x 1200 x 2300	2
1250	1000	3210 x 1200 x 2300	3
1650	1320	1900 x 2438 x 2591	4
1875	1500	1900 x 2438 x 2591	4
2000	1600	2991 x 2438 x 2591	6
2500	2000	2991 x 2438 x 2591	6
3000	2400	2991 x 2438 x 2591	6
3300	2640	2991 x 2438 x 2591	6
3750	3000	6058 x 2438 x 2591	8
4000	3200	6058 x 2438 x 2592	8
4375	3500	6058 x 2438 x 2593	10
4500	3600	6058 x 2438 x 2594	10
5000	4000	6058 x 2438 x 2595	10
5625	4500	6058 x 2438 x 2596	12
6000	4800	6058 x 2438 x 2597	12
6250	5000	6058 x 2438 x 2597	12



3

### Resistive Containerised MV Load Banks Multi-Voltage

Voltage: 690-34,000v  
Frequency: 50-60HZ



KW at 1.0pf	Dimensions L x W x H mm	Fans
500	1900 x 2438 x 2591	2
600	2991 x 2438 x 2591	2
750	2991 x 2438 x 2591	2
850	2991 x 2438 x 2592	3
1000	2991 x 2438 x 2593	3
1250	4572 x 2438 x 2591	3
1500	6058 x 2438 x 2591	4
1600	6058 x 2438 x 2592	4
2000	6058 x 2438 x 2593	6
2200	6058 x 2438 x 2594	6
2500	6058 x 2438 x 2595	6
3000	6058 x 2438 x 2596	8
3500	6058 x 2438 x 2597	8
4000	9144 x 2438 x 2591	10

4

### Resistive / Reactive Containerised MV Load Banks Multi-Voltage

Voltage: 690-34,000v  
Frequency: 50-60HZ



kVA at 0.8pf	Dimensions L x W x H mm	Fans
500	1900 x 2438 x 2591	1
750	2991 x 2438 x 2591	2
1000	2991 x 2438 x 2591	2
1250	4572 x 2438 x 2591	3
1700	6058 x 2438 x 2591	4
1875	6058 x 2438 x 2591	4
2000	6058 x 2438 x 2591	6
2500	6058 x 2438 x 2591	6
3000	7620 x 2438 x 2591	6
3500	7620 x 2438 x 2591	8

# Transformers & Sizes

To complement our range of load banks and also serve the international temporary power generation sector, Crestchic manufactures a range of containerised step-up/step-down transformers.

The multi-tap transformers range from 2000kVA to 8000kVA.



## Step-up & Step-down Transformers 50 & 60HZ Operation

- MV & LV switchgear installed
- Cast resin or oil filled options
- Fitted complete with over current & short circuit protection on the MV breaker
- ISO fully bonded containers with save all base
- ONAN or ONAF variants available
- 4 pole isolators for power generation applications

MVA Capacity	Voltage In Min	Voltage Out Min	Voltage Out Max	Dimensions L x W x H mm
2.5	400	3300v	3461v	2991 x 2438 x 2591
3.0	400	3300v	3461v	2991 x 2438 x 2591
3.3	400	3300v	3461v	2991 x 2438 x 2591
4.0	400	3300v	3461v	2991 x 2438 x 2591
5.0	400	3300v	3461v	6058 x 2438 x 2591
6.0	400	3300v	3461v	6058 x 2438 x 2591
6.3	400	3300v	3461v	6058 x 2438 x 2591
6.8	400	3300v	3461v	6058 x 2438 x 2591
8.0	400	3300v	3461v	6058 x 2438 x 2591





# Canopies & Sizes

Where the effective testing or maintenance of a generator's engine is required, a resistive-only load bank is the answer.

The resistive load applied at a power factor of 1.0 (unity), provides stable and accurate load to prove engine output at the point of build or commissioning. Resistive load banks can also be used to keep engines in peak condition where the actual applied load is lower than the output of the engine. To avoid excessive carbon build-up and the associated oil pressure and turbo-charger problems, a regular resistive load is a cost effective way to protect power generation assets.

Our canopy packaged load banks are available with a variety of control systems, from simple fixed steps controlled by switches, to state of the art micro-processor high performance supervisory control and data acquisition systems operating on modern PCs and tablets.

All our load banks employ stainless steel finned elements for maximum heat dissipation and durability.

- Voltage from 110v to 690v
- 1 or 3 phase
- 50 – 60 HZ
- 10kW to 2000kW canopy packages
- Permanent or transportable models
- Multiple 1kW load steps
- Choice of control system for all units – suited to application & operators
- Automatic load tracking facility available



## Resistive-Only Canopy Style Load Banks

KW Rating at 1.0pf	Dimensions L x W x H mm	Weight KG
20	825 x 500 x 500	52
30	825 x 500 x 500	52
40	751 x 875 x 720	115
60	751 x 875 x 720	120
80	751 x 875 x 720	125
100	751 x 875 x 720	130
200	825 x 875 x 1350	230
250	825 x 875 x 1350	240
300	825 x 875 x 1350	250
400	1275 x 1025 x 1520	390
500	1550 x 1025 x 1520	550
600	1550 x 1025 x 1520	600
700	1550 x 1025 x 1520	650
800	2055 x 1025 x 2152	1080
900	2055 x 1025 x 2152	1160
1000	2055 x 1025 x 2152	1250
1100	2055 x 1025 x 2152	1300



# Rental

**Crestchic provide a range of delivery and installation options, support services, and accessories to compliment their rental packages. You can choose to have equipment installed for self operation, operated by Crestchic, or simply delivered to site.**

Whichever option you choose, with Crestchic's unparalleled experience in providing worldwide load testing solutions, you can be assured that the service you receive will be second to none.

## Delivery and Installation Options

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Crestchic's standard service includes working with the client to understand the exact testing requirement and matching the correct equipment in terms of voltage, frequency and instrumentation to the application. This is coupled with our ability to organise all the logistics of delivery and off-loading, installation and de-installation where required. Crestchic can also supply operators and project engineers to run an entire test from one day to many months; anywhere in the world.

## Additional Support Services

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- Site surveys
- Layout drawings
- Risk assessments
- Method statements
- Full project management
- Logistics assistance
- Vehicle permits, road closures and environmental issues

## International Support & Logistics

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When you rent equipment, you expect in-depth support – and here's where we excel.

With our global foot-print and project management expertise, we have a proven-track record on even the largest and most challenging international projects. From helping with initial specification through to delivery, installation, de-commissioning and support, we can be with you every step of the way - wherever you are in the world.





## Global Offices



### CRESTCHIC (UK) Ltd.

Second Avenue, Centrum 100, Burton-on-Trent DE142WF.  
United Kingdom  
**Tel :** +44 (0)1283 531645  
**Email:** sales.uk@crestchic.com  
www.crestchicloadbanks.com

### CRESTCHIC (UK) Ltd.

Southern Office, Unit 35, Rochester Airport Industrial  
Estate, Laker Road, Rochester Kent, ME1 3QX  
**Tel :** +44 (0) 1634 864064  
**Email:** sales.uk@crestchic.com  
www.crestchicloadbanks.com

### CRESTCHIC Belgium

Schaliehoevestraat 10, 2220 – Heist-Op-Den-Berg  
Antwerp, Belgium  
**Commercial :** +32 1 5793 879 **Service :** +32 1 5793 881  
**Email:** info.be@crestchic.com  
www.crestchictransformers.com

### CRESTCHIC France SAS

15 Avenue Condorcet, 91240 – Saint Michel Sur Orge  
France  
**Tel :** +33 (0)1 69 259 434  
**E-mail :** contact@crestchic.fr  
www.crestchic.fr

### CRESTCHIC Germany GmbH

Karl-Heinz-Fräger Str. 1  
34376 Immenhausen, Germany  
**Tel :** +49 (0)5 67 3913 787  
**E-mail :** lastbank@crestchic.de  
www.crestchic.de

### CRESTCHIC USA (Pennsylvania)

191 S Keim St, Unit 1C-1, Pottstown, PA 19464.  
United States of America  
**Tel :** +1 (610) 458 8182  
**E-mail :** sales-USA@crestchic.com  
www.crestchic-usa.com

### CRESTCHIC USA (Texas)

9535 Swafford Road, Justin, TX 76247. Texas  
United States of America  
**Tel :** +1 (682) 946 5623  
**E-mail :** sales-USA@crestchic.com  
www.crestchic-usa.com

### CRESTCHIC Middle East

FZE, PoBox 262519, Jebel Ali.  
United Arab Emirates  
**Tel :** +971 4 8818 655  
**E-mail :** info-me@crestchic.com  
www.crestchicloadbanks.com

### CRESTCHIC Singapore

No.8 Tuas South Street 11,  
Singapore 637093  
**Tel :** +65 6 2653 323  
**E-mail :** adrianyap@crestchic.com  
www.crestchicloadbanks.com

### CRESTCHIC China

No.8 Tuas South Street 11,  
Singapore 637093  
**Tel :** +65 6 2653 323  
**E-mail :** adrianyap@crestchic.com  
www.crestchicloadbanks.com



The information given in this literature is, to the best of our knowledge, correct at the time of going to print. However, Crestchic is constantly looking at ways of improving their products and services and therefore reserve the right to change, without prior notice, any of the data contained in this publication. Any orders placed will be subject to our Standard Conditions of Sale or Hire (as applicable), available on request.

Crestchic (UK) Ltd, Second Avenue, Centrum 100, Burton-on-Trent, DE14 2WF

Crestchic has direct sales offices in UK, North America, Singapore, Germany, Belgium, France, China & UAE.

**Tel:** +44 (0) 1283 531 645 **Fax:** +44 (0) 1283 510 103  
**Email:** [sales.uk@crestchic.com](mailto:sales.uk@crestchic.com)

[www.crestchicloadbanks.com](http://www.crestchicloadbanks.com)

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