

Welland Power®



**World-Class
Diesel Generators
5-2000kVA**

Made in the UK



www.wellandpower.net

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British Built

Britain has always been the centre of excellence for power generation equipment and other industrial machinery - the same remains true today. Manufacturers in Britain, produce high quality products that consistently exceed customer expectations. Welland is one of these companies. All of our products are built and designed in our modern UK factory, ensuring that the products are of the highest quality.

Investment in our UK production facility in the last 2 years has exceeded £1,500,000 (\$2.2million) - an investment that has enabled us to double our production capacity. Additional investments in laser fabrication equipment, automated material processing and precision CNC material forming equipment has increased repeatability, improved our products aesthetics and allowed the processing of higher material grades to further improve durability, functionality and diversity.

Built to our standard specification, our products offer excellent quality and value when compared to other international manufacturers. Our customers love our products and we look forward to you experiencing the Welland difference too.

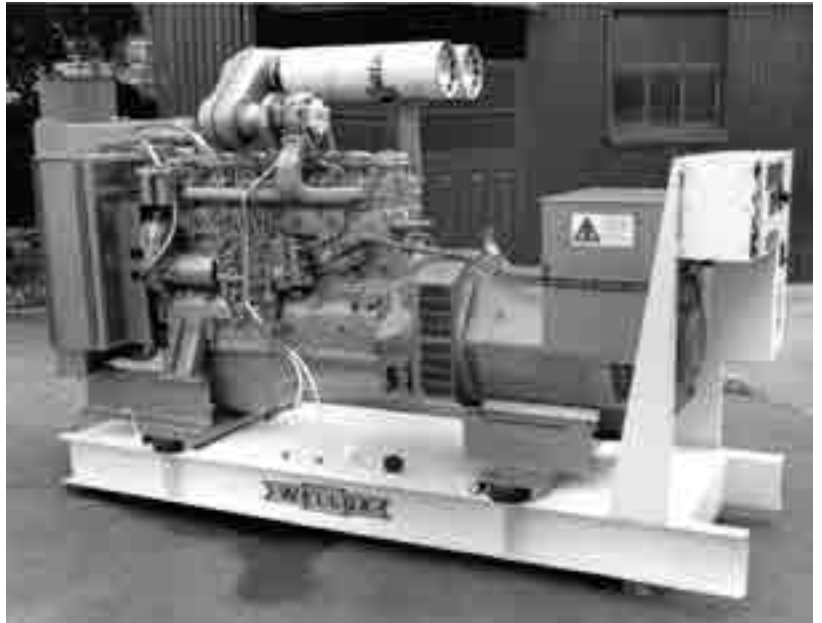


Your Power. Our Passion.

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History

On the 7th March 1950, Welland Engineering Co Ltd was incorporated in the UK with company number 479009. The company was incorporated by Captain James Thompson, uncle to William Russell Pickworth Farrow who later bought the business. Welland was started to meet the needs of the increasing requirement for reliable power generation in both the UK and abroad. Prior to purchasing Welland, William Russell Pickworth Farrow had run Farrow Irrigation, supplying irrigation equipment to sugar plantations for Tate and Lyle worldwide, as well as a variety of other industrial customers.



Welland is still owned today by the same family; Charles Lloyd Farrow currently sits as Managing Director - The third generation of the family. In all, the Farrow family and its heritage building and assembling industrial machinery can be traced back over 6 generations and video footage of the family at work has been found from as early as 1921.

In this time Welland has provided equipment to some exceptional projects around the world, including equipment for leading multinational companies, banks, schools, manufacturing facilities, telecoms stations, airports, police departments and many other bespoke applications.

Brand

Welland is a leading brand within the power generation industry. Specialising in worldwide export of complete generators and associated equipment, Welland is a name you can rely on and trust to deliver power when you need it most.

Our brand is built on our reputation for high quality power generation, demonstrated not only with words, but in over 60 years of action. Our extensive market knowledge and commitment to our customers has ensured we receive recommendations consistently from our existing customers.

Finally having a customer focused brand enables us to pursue continuous improvement by listening to our customers' requirements, feeding these back into new product designs and enhancing our reputation and brand beyond that of our competitors.

Welland Power

Brand Worldwide

Welland has sold products into over 120 different countries and territories. Varied environments produce different operational challenges and our range of products is designed to work in these environments utilizing a selection of optional extras which allow for specific customisation to the required application.

Welland Power

Brand Value

As a recognised worldwide brand of diesel generators, Welland offers its customers products that meet their needs. The superb range of products is unique, recognised and valued across a range of industry sectors, by not only the people that operate the equipment, but also by the people that rely on it for power. The Welland Brand adds real value to your operation.

Welland Power

Brand Financial Strength

Welland offers not only a strong and leading brand, but it has a strong financial base which has allowed for long term investment in products, processes and facilities. Our capital base allows for excellent stock levels, world-class CNC machinery and high production through output. The excellent financial strength of the company gives our customers confidence in our brand and market position.



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Range



Our range is extensive, consisting of diesel generators from 7-2000kVA. We offer a standard packaged product, built to a high standard specification, with a range of options and accessories including additional protections, monitoring, communication, synchronising, mains failure, switchgear and acoustic noise reduction systems, as well as custom solutions.

Standard Features

Features include a UK Made Deep Sea Control module; Mecc Alte, Newage Stamford or Leroy Somer alternator; high quality parts and fittings, high quality UK made industrial exhaust system as well as a host of standard features you would expect from a world-wide brand like Welland Power.

Common Options

Commonly specified options are our highly valued acoustic enclosures, control equipment upgrades for additional metering or synchronising, remote communications upgrades to allow for BMS interoperability, GSM or Ethernet remote monitoring.

Custom Solutions

Alternative solutions can also be made to order for customers where required, (subject to project minimum order requirements), including alternative alternators, such as Leroy Somer or Stamford, containerised products or long running fuel tanks.

Applications

Welland diesel generators, control equipment and enclosures are used in a wide variety of applications, both in standard specifications and custom builds for more specialist applications and requirements.

Prime Power

Welland generators can be used as the main power source for your application.

Prime power can offer you the solution to your continuous power requirements. Robust, internationally recognised prime movers provide high quality mechanical power, which when coupled to our premium alternator offerings create reliable, high quality electrical power that you can depend on.

Standby Power

Standby power from a Welland generator allows your home, business or factory to run through a main grid power failure. Our range of standby generators and switchgear can automate the process allowing fast, trouble free load transfer. For additional power security, dual mutual standby is also available allowing two generators to act as standby to the mains.

Synchronised Power

Our generators when equipped with the required synchronising panels can also run in parallel with each other, the national grid or both. These are specialist applications and our team are able to assist to you to achieve the best solution for your requirements.

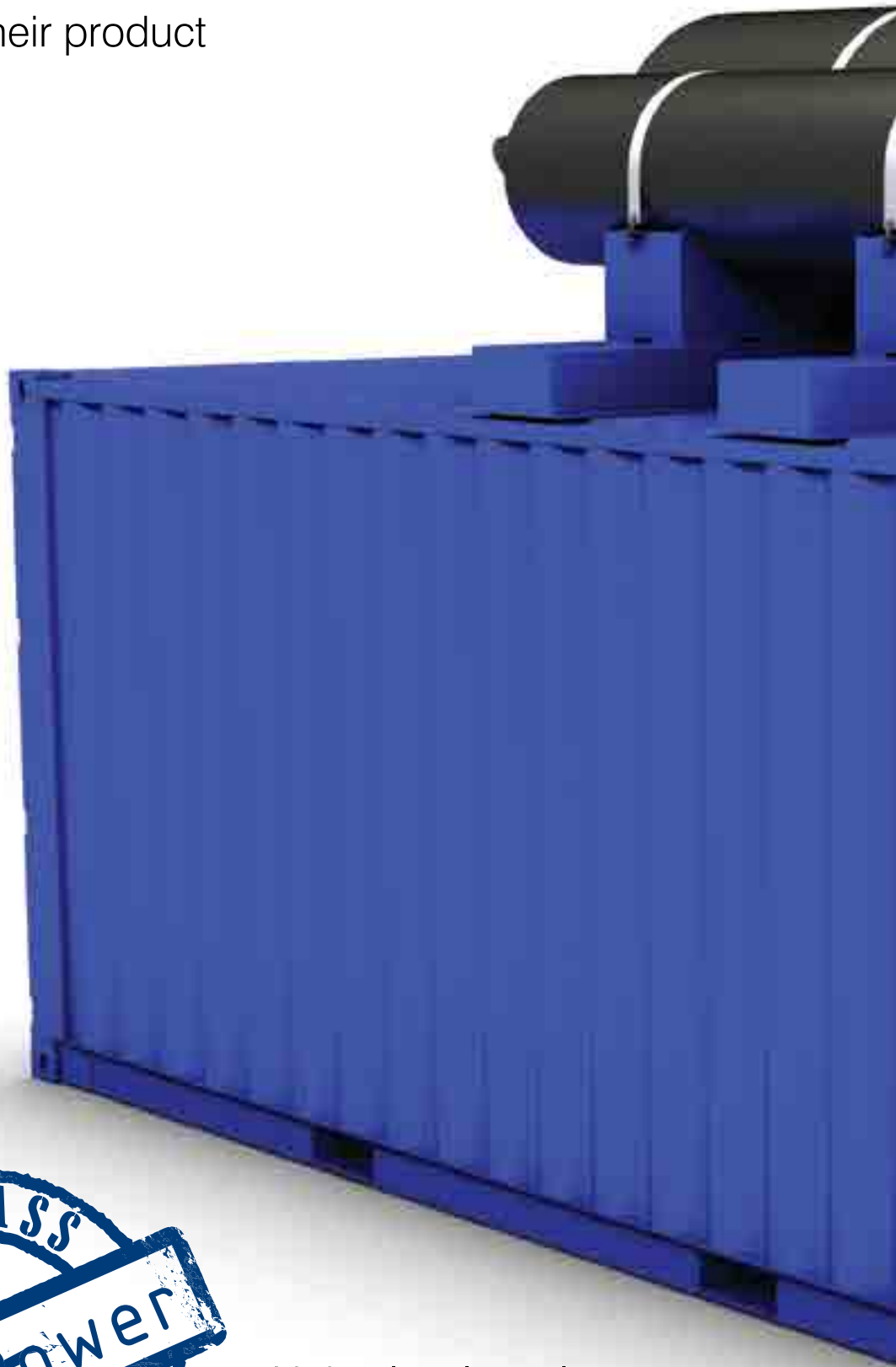
All the above options can be combined with our range of enclosures and switchgear.



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Wellands full range of ISO container options allows the end user to determine their product requirements.



Noise levels as low as 65dBA@1m optionally provide the very best attenuation in critical circumstances.



Custom built designs and options
for a wide range of generators.

Containers provide excellent
security while also making them
transportable using a range of
standard machinery.

Components

The Engine - Economic, Reliable, Dependable

The quality engines form the heart of all reliable diesel generating sets. As the largest component part, the engine is essential to the cost and reliability of the unit. This reliability is intrinsic in the range of engines we supply. Perkins, Volvo Penta, Lister Petter and Cummins are the leading brands we utilise in our products.

Fuel optimised engines are essential due to the cost of fuel – all our engines are fuel optimised to produce the lowest running costs per kWh. This low cost of ownership is essential to our value proposition allowing Welland generators to be a leading UK manufacturer of power generation equipment.

All the engines used in our range of diesel generators offer reliability, high build quality and international warranty allowing the units to be used worldwide* in a wide variety of applications.



The Alternator – Efficient, Reliable, Proven

The high quality AC alternators we supply come built with an efficient high quality design that provides excellent power quality. This high power quality allows you to use the generator in a variety of applications.

Brushless, Synchronous and AVR controlled, the alternators from Mecc Alte and Stamford allow for fine voltage/stability adjustment via the AVR and fast voltage response for changes in load. Each and every machine is tested to ensure the highest levels of reliability while the standard levels of protection meet or exceed international standards.

There really is a difference in the quality of AC power provided by the alternators we offer.

* Please check warranty support and coverage in your specific location for more details.

Control

The control and monitoring of your generator is essential to ensure you get the best from your product. Our controller offerings by Deep Sea Electronics are all made in the UK, they allow you to select the best option for your application.

DSE 7120 MK II

The DSE 7120 MK II provides an icon based display, along with three phase / single phase monitoring of all values including Voltage, Frequency, Current, kW, kVA and kVA_r. The DSE 7120 MK II is an outstanding controller providing a whole host of features as our entry level model. The controller provides mains monitoring to deliver AMF functionality.



DSE 7320

The DSE 7320 features a text based display and provides all the features of the DSE 7120, plus additional programmable input and outputs. It is also able to provide remote communications using its RS 232 and RS 485 interfaces. Additional protections for both the engine and the alternator are also available in this controller, allowing finer control over parameters, shutdown and warning events as well as PLC functionality. The DSE 7320 meets the needs of the most demanding customers.

DSE 8610

The DSE 8610 controller is a set-set paralleling controller. Utilising this controller option we can provide sets running in synchronisation to make more cost effective, more flexible and more fault tolerant prime and standby systems. Please contact your sales advisor for more information.



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Manufacturing



Location

In 2010 Welland moved to a new UK facility. Located just a few miles away from the previous premises and back to the original town of Spalding, where the company was founded some 60 years ago. Located just a short 20 minute drive from Perkins Engine Company in Peterborough, just 40 minutes from the Mecc Alte UK factory in Oakham and 30 minutes from the Stamford factory in Stamford. Welland is clearly in an ideal location to build, manufacture and assemble diesel generators.

Facilities

A range of top class facilities enables us to produce generators to meet the highest possible standards.

Fabrication, goods inward, stock buffering, storage, manufacturing, quality control and dispatch are all aligned in sequence for maximum assembly speed and repeatability, while enabling product cost reduction through production efficiency enhancements.

Our factory site totals some 6 ½ acres (2.6 hectares), this ample space enables enhanced production capacity which exceeds that of most of our UK competitors.

Quality

Our manufacturing facility has its ISO9001 framework as a core concept, producing high quality products with traceability, repeatability and quality. High quality engineering staff offering decades of experience within the UK generator industry ensure high quality. The design and engineering department produce high quality 3D models to prototype design concepts for our generator test engineers to evaluate prior to full production release.



Manufacturing

Processes

In house sheet metal processing, welding, fabrication, cutting, grinding and finishing facility's allow for in house process control. This allows high quality products to be produced quickly and reliably while keeping costs low.

Fabrication in house positions the design team and production team in the same building to share feedback to improve efficiency and enables continuous improvement in design, process control and cost management.

Equipment

Welland utilises Amada CNC machinery. Amada are known as "The largest machine tool manufacturer in the world" and for this reason they fit perfectly with Welland. A 4kW CNC laser and a 3m 100 ton press break allow for the fabrication of base-tanks, open frames and acoustic enclosures.

High quality, reliable equipment that offers high levels of repeatability and consistency in fabrication sets a solid foundation for generator production.

Employees

A range of technically skilled, experienced and hardworking employees compliment the general ethos of the business in providing high quality power. Welland values all employees and aims to ensure a balanced working environment to enhance employee satisfaction, which we believe enhances our quality products.

Various shift patterns are utilized to maximise production during busy periods.



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Distribution

Our distribution network of dealers covers all the continents allowing us to provide you with the fastest possible deliveries direct in your country. The high quality distribution network allows us to provide power to you when you need it and support you on an ongoing basis.

High Availability

The Welland distribution network is designed to provide high availability on our range of equipment – both generators and spare parts. Generators are built, tested and either shipped directly to our distribution network or to our warehouse to act as buffer stock in times of high demand. Supply times are therefore short, with our distribution network able to fulfil 96% of normal generator demand requirements from stock.

Generators

Distributed primarily through sea freight in full shipping containers, our generators are packed and loaded onto the world's biggest container ships and transported to your local port. This process can take from 2 to 6 weeks depending on your location. For heavy robust cargo like our products sea freight is the best, most economical option.

Spare Parts

Distributed primarily by international courier (DHL, TNT, UPS, FedEx) and air freight (with sea freight reserved for larger shipments). Spares availability is excellent, with many items being available same day or next day for dispatch. An advanced spares network allows our dealers to quickly and easily support your product throughout its lifetime.



Distribution

Support

The distribution network provides first-class support and assistance to help you manage your power requirements. Many dealers provide advanced service plans and support packages to help maintain your product throughout its life.

Correct preventive and corrective maintenance, an inspection and monitoring regime as well as genuine manufacturer's parts will ensure that your investment remains protected and power is always available. Our 3 tier support, available from your distributor, Welland and the local OEM dealer provides the remedy to the full range of issues.

Genuine Spare Parts

Genuine spare parts are the best way to maintain your generators components to ensure years of trouble free power. Welland recommends always using the correct spare part for your product as recommended by the manufacturer.



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