



**Diesel Generators  
& Bespoke Acoustic Enclosures**

# Advanced - in the pursuit of excellence

*Advanced is a specialist manufacturer of diesel generators and bespoke silenced and super-silent generator enclosures. The company designs and manufactures power systems for applications including data centres, prison security & emergency power for hospitals.*



**Synchronised Generators**



**Plant Room Installation**



**Generator Installation**

## **Advanced - Diesel Generators & Bespoke Acoustic Enclosures**

From single engine commercial standby generators to multiple engine, synchronised generator power plants; Advanced can design, supply, install and maintain a reliable power system for any situation.

From 11-3300kVA, the company stocks only brand new genuine open and silenced generators from the best manufacturers. Advanced specialises in manufacturing generator systems too large to fit inside standard ISO shipping containers, and has particular expertise in the design and manufacture of bespoke silent and super-silent enclosures. Typical uses include: prison security, hospital emergency power systems and data centre stand by and prime power systems.

In addition to its standard acoustic enclosures and ISO containers, Advanced custom design and manufacture silenced and super-silenced enclosures. The specially trained sales engineers at Advanced are always available to advise on requirements for bespoke containers, canopies, acoustic treatment of plant rooms or any other generator project where expertise is required.

With head offices located in the centre of the UK, and an office facility to service London, it is able to cover the whole of the UK. The HQ in West Yorkshire accommodates a company head office, manufacturing and fabrication facility, warehouse, and test area.

Onsite are the following resources:

- A large team of Sales Managers & Sales Engineers
- The Project Management Department
  - Installation Department
  - A 3D/2D CAD/CAM Engineering Department
  - Service & Maintenance Department
  - Marketing & Design Department
  - The IT, Network Management & Web Development Centre
  - Customer Relations & Reception Area
  - Large Conferencing Facility & Meeting Rooms

"Here at Advanced, the products and services we offer are perfectly suited to providing a dependable solution for a wide range of primary and secondary energy issues," Darren explains.



Measuring around 80,000 square feet, Advanced's manufacturing and engineering facility houses a large cutting and press area with seven press brakes operating at any one time. Next to this are 14 manufacturing bays each measuring 19 metres by 12 metres, allowing projects of any size to be built and assembled.

Most of the fabrication takes place in these bays, including all acoustic container and canopy work. Adjacent to the fabrication area are two spray booths where final custom finishing takes place.

The company's generator warehouse and storage yard holds £6m+ of new generators up to and including 2.5MVA.

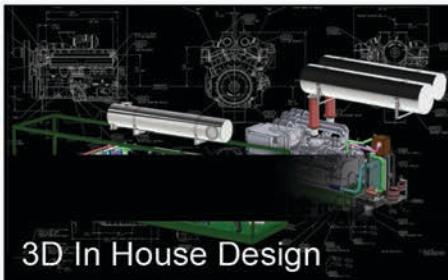
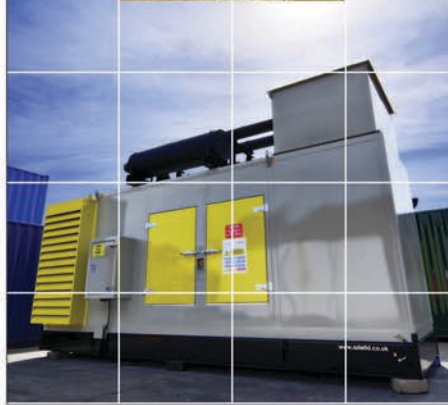
Once a generator has been marked as sold it is taken through Advanced's standard test procedure. For generators up to 2000kVA the company can load test and stream a live video of the procedures online for client-only viewing. There is also a triple-glazed client viewing area adjacent to the test house for clients to visit Advanced and witness test their new generator in person.

Speaking for the company, managing director Darren Robson comments: "We will custom design and manufacture silenced and super-silenced enclosures for many sizes and brands of gas or diesel generators, water pumps and compressors, and other noisy equipment.

"To maintain the high product standards we hold dear at Advanced, we have now started to manufacture our own large capacity bunded fuel tanks and diesel fuel transfer systems. We have always manufactured small fuel tanks (day tanks) as part of our generator packages, but until recently we have used third party suppliers for the larger tanks. During the final quarter of 2012 we equipped the factory with the required tools (including a 10,000kg crane) to enable us to build the tanks safely and efficiently."

He comments: "When data centres, hospitals, prisons, and industrial enterprises are looking to invest in a reliable standby energy source, it is imperative that they turn to specialists with the necessary experience and expertise in this exacting field.

Darren provides some background: "For over 20 years we have been providing primary and backup power to many industries, and in most cases our electric power generators are the driving force behind the major projects.



3D In House Design



Data Centre Projects



Fabrication & Welding

"From 11 to 3300 kVA, our standard range is all encompassing; and with a dedicated team of sales managers and engineers to back them up, the systems we provide are blue chip in every regard. When it comes to keeping things running smoothly and efficiently, you can rest assured that your facility is in safe hands with our highly respected and experienced team of engineers and project managers," he explains.

Regardless of a customer's demands, be that a single engine unit, or a fully operational, multi-engine powerplant, Advanced can be relied upon to design and manufacture a solution for clients' prime or standby power needs.

"As a business we specialise in emergency standby and primary energy systems and regardless of the environment our systems are installed in, our generators can be relied upon to deliver the required energy in an efficient and discreet manner."

Darren feels the issues with the national power supply are crucial. "When it comes to secondary power supplies and suppliers, you really can't afford to compromise and this is why our products and services are so vital to our existing and future clients. If you are looking for industrial or marine generators, Advanced specialise in bespoke generator solutions as standard."

Industrial and domestic installations built by the company include:

- HV & LV Fused and switched mains distribution boards
- HV transformer and mains change-over systems
- Fuel, gas and liquid pipes and pump systems
- BMS alarms and warnings integration including high/low fuel warnings, security breach and fire warnings
- CO<sub>2</sub> protection with fire-wire drop valve
- Fuel safety dump with duplex pumping options.

"Whether you require a standard generator, or a bespoke designed and manufactured system, you can rely on Advanced to deliver high quality products and services every time. Our area of expertise is wide and varied - and includes everything from bespoke containers, to drop over canopies and acoustic solutions."

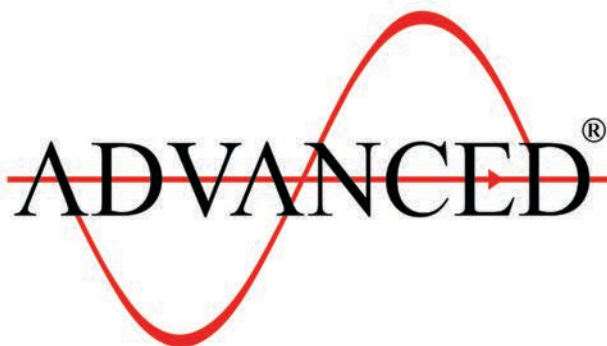
He concludes: "Make Advanced Diesel Engineering Ltd your supplier of choice and not only will you get a product which can be relied upon, but you will also receive a standard of after-sales service which is second-to-none."

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**Synchronised Generators**



**Bespoke Acoustic Enclosures**



**Modular Equipment Rooms**

## **The International Suppliers**

As the economic recession gripped the world in the late 2000s, Advanced Diesel Engineering was able to maintain success thanks to its established reputation for providing quality products. Advanced supply internationally recognised quality branded new diesel generators from top manufacturers including Cummins, Caterpillar, Perkins, Volvo, and MTU. As well as selling generators, Advanced manufacture acoustic containers and canopies in their extensive factory in the north of England. Along with containers and canopies, they produce both day tanks and bulk fuel tanks, as well as silencers, pipework, and complex electrical control panels.

In 2010 Advanced made the decision to progress into the international sales market, and today has sales offices in Nepal,

Pakistan, Iraq, India, Turkey, Ethiopia, Kenya, and Uganda. Agents in these countries now actively promote Advanced's products, distributing top quality energy generation products across the globe. This success has been achieved because of the support that Advanced supplies throughout the sales process and in its aftersales service. Products supplied by Advanced are designed and manufactured to the highest specifications, and have both style and substance. All products supplied are fit for purpose and will stand up to the requirements of the environment they are installed in.

Advanced's warehouse and storage yard holds over £6 million of brand new generators from a variety of manufactures, ranging from 11kVA to 2.5MVA. Once a generator is sold it undergoes

Advanced's standard test procedure in a purpose built test bay on site, where clients are welcome to view their generator through its test. For generators up to 2000kVA this procedure can be witnessed by the client via a secure and private video stream online.

If you are a company that would be interested in joining the Advanced network of International Sales Offices, Then please don't hesitate to get in touch and arrange a meeting with our Overseas Sales Director,  
**Mr Paul Blything**

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