

# WB POWER SERVICES

POWER YOU CAN TRUST

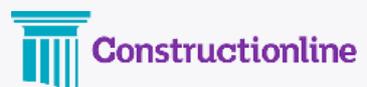


## PROJECTS

TURNKEY CRITICAL POWER INFRASTRUCTURE, RELIABLY PLANNED AND DELIVERED BY EXPERTS, ACROSS DIESEL, GAS AND COGENERATION APPLICATIONS



# OUR AWARDS



# PROVIDING CRITICAL POWER SERVICES FOR MORE THAN 40 YEARS

**WB Power Services (WBPS)** was first established in 1983 and since then we have grown significantly in size and service capability. Today, we provide critical power services to some of the UK's most important businesses and organisations, ensuring essential services are protected across data centres, hospitals, schools,

government sites and other commercial operations. As a family-founded, owned and run business, we are proud to retain our family values on a national scale as we strive to be the biggest and the best power generation company in the UK.

#### DELIVERED BY SPECIALISTS

We have dedicated teams for power solutions, generator maintenance and hire, as well as engineers, project managers and logistics coordinators who are directly employed by us. It means there is very little use for sub-contractors or middlemen. Just specialists with a wealth of knowledge and expertise offering a complete solution that's as bespoke as your needs.

#### PARTNERS IN POWER

For more than three decades our company ethos has been to build up long-standing customer relationships as not only a service provider, but as an extension of your own team. Our wide portfolio of relationships lasting decades is a great testament to this. As is our ability to provide an industry-leading 24/7 365-day service that's rapid, reliable and cost-effective. It's why, unlike other suppliers, we manage all our own equipment, transport and logistics ourselves. So, we can always deliver exceptional service standards no matter what you need or where you are.

**KOHLER'S NO. 1 DISTRIBUTOR  
NEED KOHLER GENERATORS  
OR PARTS? WE'RE EUROPE'S  
LARGEST KOHLER APPROVED  
DISTRIBUTOR, SO WHATEVER YOU  
NEED YOU CAN COUNT ON US.**



# WHY CHOOSE US?

#### Emergency support

We have a national emergency response telephone line that supports you 24 hours a day, 7 days a week, 365 days a year.

#### Reliability and availability

We have a highly-skilled and accredited team and a wide range of equipment, spare parts, and components to ensure quick product despatch when you need help most.

#### Design and consultancy

Our full turnkey solutions mean we can identify, install and commission the best solution for you from 10kVA to 24MVA (as part of a multi-set synchronous package).

#### Installation and project management

In the most cost-effective way, we will install and fully project manage your new power solution to the exacting controls and standards required using our accredited, industry leading ISO system.

#### Service and maintenance

No matter whether your generators are providing prime or back-up power, we can offer tailored, bespoke service and maintenance programmes to keep them working and ready to provide a reliable power source.

#### Sourcing and supply

We have supply agreements with international manufacturers so you can be confident you will get the best solution and that our spare components meet the manufacturer's OEM specification.

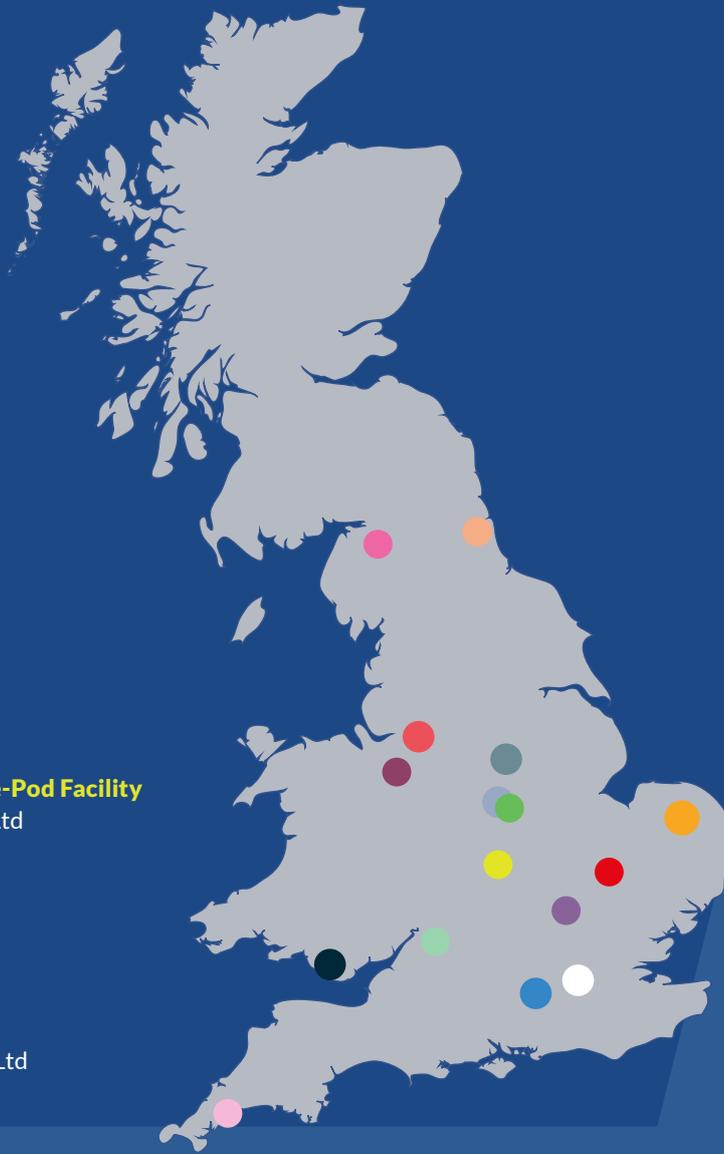
#### Whole life asset management

We offer all customers an asset management solution to help maintain the integrity of your back-up supply for as long as you have it.

#### Sector expertise

We have years of experience supporting businesses in a wide range of sectors including large UK-based data centres, hospitals, banks, defence, and utility companies.

# NATIONWIDE COVERAGE



## Loughborough WB e-Pod Facility

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## Milton Keynes

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0115 9444 422

# EUROPE'S LARGEST KOHLER DISTRIBUTOR

We are proud to be the Europe's largest Kohler distributor, and offer a vast selection of high-performance Kohler generator, ranging from 10kVA to 4500kVA. These engines offer outstanding power in a clean, modular design and are ideal for a wide variety of applications and sectors.



**WE ARE AN AUTHORISED KOHLER  
DISTRIBUTOR AND WORK  
ALONGSIDE THEIR DESIGN TEAM  
TO DELIVER THE BEST SOLUTION  
FOR YOU.**



## BESPOKE POWER SOLUTIONS, BUILT TO YOUR REQUIREMENTS ALONGSIDE KOHLER

As part of our projects sales and installation process, we will utilise our expertise to make sure we provide you with a generating set which is aligned to your requirements.

As the UK's largest Kohler Approved Dealer, we have access to a vast range of high quality & performance Kohler generators, ranging from 10kVA to 4500kVA.

We work alongside the Kohler's design team to deliver the best solution for you. Kohler is one of the largest designers and manufacturers of diesel power generators globally and have supply and service agreements in place with all major engine manufacturers. Our largest installation to date is 80MVA.

## WHY KOHLER?

The global engineering team at Kohler have developed a new range of engines offering unrivalled performance. They combine the highest power with superior efficiency specifically for generating sets. These engines are manufactured in France and Switzerland, in factories offering the highest level of quality. Each product is tested under rigorous operating conditions. Advantages of the Kohler product include:

- OPTIMISED SOUND LEVEL AND VIBRATIONS
- OPTIMAL CONTROL OF THE INJECTION SYSTEM
- A ROBUST, RELIABLE DESIGN
- A SLEEK, MODULAR DESIGN
- CONCENTRATED POWER

**WE HAVE ACCESS TO A VAST RANGE OF HIGH PERFORMANCE GENERATORS RANGING FROM 10KVA TO 4500KVA**



# YOUR DIESEL & GAS CRITICAL POWER SPECIALIST WITH OVER 40 YEARS EXPERIENCE

Every project is different, so our solutions are bespoke and designed to flex around your needs. Utilising our expertise, we can meet the specific needs and requirements of your project.

## DIESEL GENERATOR INSTALLATIONS

As a leading family-owned operator of critical power infrastructure, we have built specifications and led projects of all sizes, across all sectors. Our extensive experience means we can provide you with comprehensive support for every aspect of your critical power needs. We are trusted to install turnkey power solutions for world-class corporations, government bodies, supporting hospitals, data centres, banks, utility companies, military installations and more.

We offer a range of complete turnkey power solutions, from single generator (10kVA to 4.5MVA), to large multi-synchronous packages. Our in-house Project Sales team will work with you to identify and install the best solution for you. We consider all elements of your power needs, including:

- FOOTPRINT SOLUTIONS
- SPACE PLANNING
- ACOUSTIC SOLUTIONS
- FUEL STORAGE & DISTRIBUTION
- CONTROL SYSTEMS & SWITCHGEAR
- EMISSIONS CONTROL INCLUDING SCR'S
- CIVIL WORKS





### GAS & COGENERATION GENERATOR INSTALLATIONS

As an industry leading family-owned operator of gas & CHP infrastructure installations, we have led projects of all sizes, across all sectors. Our extensive experience means we can provide you with comprehensive support for every aspect of your gas & CHP critical power needs.

WBPS were instrumental in early testing of alternative fuelled engines for a major worldwide engine manufacturer and have even recently carried out alternative fuel trials for a major utility company. Due to this innovation and knowledge of gas & CHP systems, we can offer efficient, cost effective and robust gas & CHP infrastructure solutions. We can also consider all other elements of a gas & CHP installation, which include:

- GAS & CHP SWITCHGEAR AND CONTROL SYSTEMS
- GAS & CHP ACOUSTIC SOLUTIONS
- GAS & CHP GENERATOR COMMISSIONING
- GAS & CHP SITE SURVEYS
- GAS & CHP FAULT ANALYSIS
- IN-HOUSE GAS & CHP FACTORY ACCEPTANCE TESTING

Dependent on your needs, we will consider many different types of gas for you installation, including:

- NATURAL GAS
- BIOGAS
- HYDROGEN GAS
- LANDFILL GAS



### UPS INSTALLATIONS

A UPS or Uninterruptible Power Supply is designed to bridge the gap allowing time for an electrical system to shutdown and time for a generator to take load or mains electricity to return – helping to stem any damage done or loss of data. By working with WB Power on your UPS installation requirements, we will ensure that your UPS system infrastructure is fully operational at all times and providing the essential bridge between a power failure and a generator back-up supply.

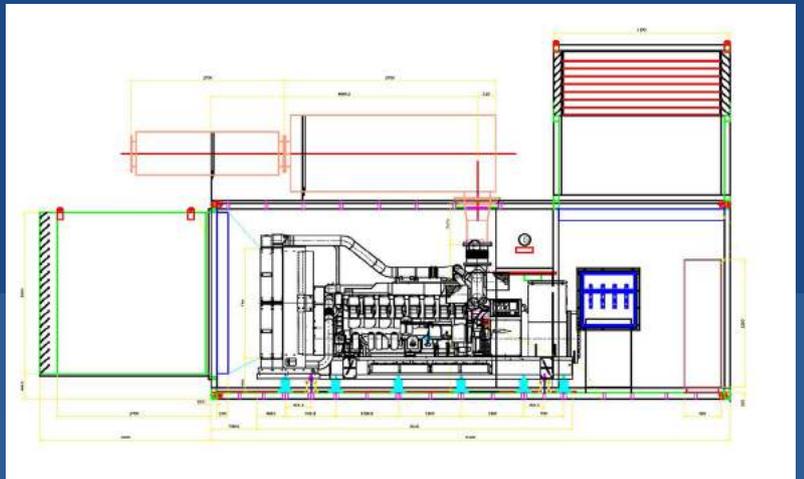
Available as standalone products or as part of a full turnkey solution, we can provide:

- UPS SITE SURVEY
- UPS INFRASTRUCTURE DESIGN
- FUNCTION CHECKS ON THE COMPLETE SYSTEM
- FAULT FINDING
- LOAD BANK TESTING
- BLACK START TESTING
- EMERGENCY CALL OUT
- INCUMBENT SYSTEM REPAIRS, REFURBS AND UPGRADES



# A TURNKEY SOLUTION – WHAT CAN YOU EXPECT?

We are a specialist team of critical power experts, engineers and project managers, ready to expertly define your requirements, develop a solution and run your project through to delivery (and everything in between). It doesn't matter how complex your project is, or where you are in the UK, we have the know-how and experience to specify, plan and deliver, handing over the keys to you at the end.



**FROM YOUR VERY FIRST CONVERSATION WITH OUR PROJECT SALES TEAM, THROUGH TO FINAL TESTING ON-SITE, WE WILL MANAGE EVERY ASPECT OF YOUR POWER SOLUTION**



## THE TURNKEY SOLUTION PROCESS, FROM START TO FINISH

From our very first conversation, through to final testing and beyond, we will seamlessly manage every aspect of your project. Our signature combination of technical expertise and personal, trusted service means we can take care of everything for you and deliver it to exacting standards.

### CONSULTATION WITH PROJECT SALES TEAM

Our in-house Project Sales Management team will work with you to consider your power requirements. Once we get the green light, we use our ISO accredited systems to meet exact control and installation standards, and check that all procedures are fully documented and accredited.

### DESIGN

Our design work includes all drawings, specifications and other documentation. Our professional team will always make sure that everything we recommend satisfies your objectives; complies with all relevant standards, specifications and regulations; and is economical to procure, deliver, install, and maintain. Next, we produce AUTOCAD layout and installation drawings, along with method statements and risk assessments, for you to review. No work will begin until you have given your final approval.

### PROJECT MANAGEMENT

From day one you will have an experienced project manager who will keep a close eye on all aspects of the project, and be your single point of contact. We will also assign a dedicated project team who will use Microsoft Project to plan the work and provide progress reports.

Our in-house team will oversee every facet of the project including setting key dates and timescales for completion, site specific rules and technical requirements and optimising resources and costs. They will also establish project KPIs and reporting requirements with you so you can be confident the project is on track and progressing in line with your expectations and objectives.

### FINAL TESTING

Once external electrical items are installed and site equipment is tested and approved, we will undertake generator commissioning and do a final handover on site. This includes a full mains failure, site acceptance test and black-start test to make sure that everything the generator package meets the specification and your needs. As part of our testing and commissioning process, we provide:

- PROOF OF CERTIFICATION FOR INSTALLATION – BOTH ELECTRICAL AND MECHANICAL
- END-TO-END CHECK OF ENTIRE INSTALLATION
- PRE-START CHECKS
- ISLAND MODE TESTS
- SWITCHBOARD/INFRASTRUCTURE PRE-COMMISSION CHECKS
- LIVE UP AND SET POINTS, AND A SWITCHBOARD TEST
- COMPLETE ISLAND MODE COMMISSION
- LOAD BANK TEST
- COMPLETE IST, INCORPORATING YOUR SPECIFIC OPERATIONAL RESTRICTIONS
- DOCUMENTATION HANDOVER
- TRAINING FOR YOUR TEAM

### WHY A TURNKEY SOLUTION IS RIGHT FOR YOUR PROJECT

Whatever the project requirements are, we can implement a solution into your current business process with minimal disruption to the daily running of your site. It means throughout the project, you can expect:

- A DETAILED, COMPREHENSIVE CONSULTATION WITH OUR PROJECT SALES TEAM, ENSURING ALL YOUR REQUIREMENTS ARE CONSIDERED
- ONE EXPERT PROJECT MANAGEMENT TEAM WITH A SINGLE POINT OF CONTACT
- EVERYONE IS EMPLOYED BY US – SAVING YOU THE COST AND TIME OF PEOPLE MANAGEMENT
- QUALITY, SCHEDULES AND BUDGETS THAT ARE OVERSEEN BY YOUR DEDICATED PROJECT MANAGER FOR A SIMPLIFIED, STREAMLINED PROCESS

# ACOUSTIC SOLUTIONS FOR LOW NOISE ENVIRONMENTS

## ACOUSTIC SOLUTIONS FOR LOW NOISE ENVIRONMENTS

In low noise sensitive environments, a standard generator enclosure may not always be suitable, and an acoustic generator solution is often the best choice. Our acoustic engineers have experience in all aspects of plant room and container design, so they are well placed to find the right solution for you.

As well as offering protection for the generator, our acoustic solutions guarantee that people working nearby are protected from excessive noise, vibration and the risk of fire. We also make sure that our solutions offer protection from the weather and security risks. Exhaust silencers, fuel supply and installation into your existing plant room can all be provided, and you can choose from standard or bespoke canopies and enclosures. We can offer:

- WEATHERPOOF ACOUSTIC
- CLOSE FIT CANOPIES
- DROP OVER CANOPIES
- ACOUSTIC CONTAINERS

## EXHAUST GAS SILENCERS

Exhaust gas silencers are a good choice for dealing with the problem of air induction noise. These units go between the engine and the filtration unit. Sized to fit your system, they can be simple annular 'clean straight-through' acoustically packed intake silencers, such as the FP type, or designs with a central pod or annular splitters, such as the FPC or FPS types.



# FOOTPRINT SOLUTIONS & SPACE PLANNING

## PLANT ROOM INSTALLATIONS

When installing generators and other ancillary equipment in a plant room, access is often incredibly challenging. The projects team will not only identify the most efficient method of getting your new equipment into the plant room, but will also project manage the installation.

## PLANT ROOM ACOUSTICS

Plant room installations can benefit greatly from air inlet and extract attenuators. These allow the generator to get just the right amount of ventilation it needs to operate to its full potential, lowering excess noise.

Acoustic louvres also provide excellent sound attenuation. We can supply a full range of high quality, reliable, fixed-blade weather louvres and motorised weather louvres.



## GANTRY SYSTEMS

WB Power Services are experts in innovative footprint planning solutions, such as steel gantry systems. Working with a third party fabricator, our Project Sales team can design a bespoke gantry system based on site requirements. Developing a gantry system into your power solution ensures that we maximise any space available.



# FUEL STORAGE & DISTRIBUTION, ABOVE AND BELOW GROUND

We offer a comprehensive fuel storage and distribution and design service. That covers everything above and below ground and extends to a full dedicated after sales service, which includes annual inspections, so you have peace of mind going forward.

Your specific installation will be looked after by an expert team and individually processed. Our in-house designers are experienced in both above and below ground applications and will make sure that everything is manufactured to PPG environment regulations, so you can rest assured that the environment is protected against spillage and leakage.



Our specialist team will be happy to talk to you about your individual needs, which may include any of the following:

- DESIGN, INSTALLATION & SUPPLY
- BUNDED FLEXIBLE OR STEEL PIPE WORK
- RISK ASSESSMENT AND INSTALLATION REPORTING
- OLD TANK/FUEL WASTE REMOVAL
- PRESSURE TESTING
- FUEL TANK DESIGN AND INSTALLATION SERVICE
- SPILL KIT SUPPLY
- FUEL SCRUBBING
- SPILL KIT SUPPLY
- EMERGENCY RESPONSE
- TEMPORARY FUEL TANK HIRE
- FUEL TANK INSPECTIONS TO LEGISLATIVE REQUIREMENTS



POWER YOU CAN TRUST

# GET PEACE OF MIND BY USING OUR SWITCHGEAR AND CONTROL SYSTEMS



If you are dealing with high or low voltage electrical equipment you need to know that you have a robust back up in place to control, protect and isolate it when necessary. That is why we only ever use tried-and-tested, quality products to give you the best and most reliable results. Whether you are looking for a basic remote start or complete building HV/LV infrastructure, you can trust your electrical equipment is safe at all times.

As part of this service, we offer everything you need for your project including:

- **HV EQUIPMENT & PACKAGED SUBSTATION**
- **MAIN LV DISTRIBUTION SWITCHGEAR**
- **SUB LV DISTRIBUTION SWITCHGEAR**
- **POWER DISTRIBUTION UNITS (PDU)**
- **CONTROL PANELS AND SYSTEMS**
- **TRANSFORMERS**
- **CHANGEOVER PANELS**
- **BUS BAR / FLEXIBLE CABLING**
- **CONTAINMENT**
- **PLC CONTROL**



#### **EMISSIONS REDUCTION TREATMENTS AND CATALYTIC REDUCTION**

Selective Catalytic Reduction is one of the most cost-effective and fuel-efficient technologies available to help reduce diesel engine emissions of your generator, either incumbent as part of an installation. Our project engineers have experience in all aspects of SCR technology. We can advise on the best solution available to you, equipping your critical power systems with the latest SCR technology.



# YOUR PARTNERS FOR CIVIL WORKS

Every project is different, so our solutions are bespoke and designed to flex around your needs. However, we do have specialist areas of expertise to meet the specific needs of certain sectors and projects requirements.

## YOUR PARTNERS FOR CIVIL WORKS

We offer a full range of civil and building services to suit your needs, which includes the design, construction and maintenance of critical power systems for all kinds of public works including roads, bridges, tunnels, reservoirs, dams, airports, and water treatment facilities. In the last year alone, clients have included Data Centres, Hospitals, Life Sciences and Telecoms, Defence, Finance and specialist Engineering projects.

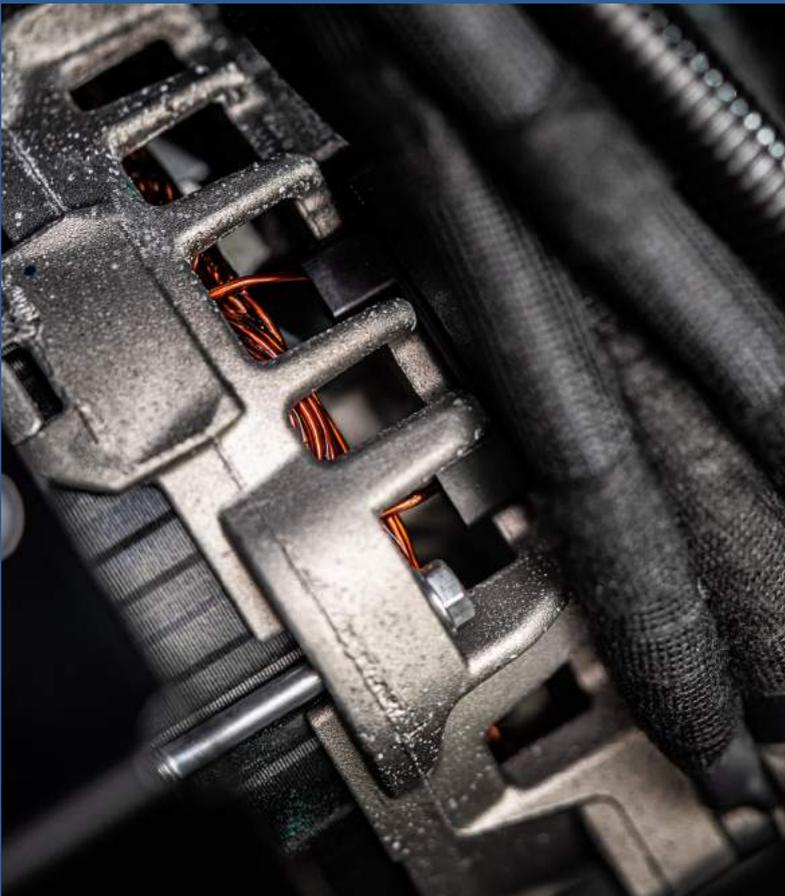
Available as standalone products or as part of a full turnkey solution, we can provide:

- CONCRETE BASES
- ACCESS LADDERS, STEPS & WALKWAYS
- TRANSFORMER BASES AND GRP HOUSINGS
- GENERATOR AND FUEL BUND SOLUTIONS
- HV/LV CAGES AND BUILDING INFRASTRUCTURE
- DUCTWORK
- TRENCHWORK
- GROUND CLEARANCE
- ACOUSTIC AND STANDARD FENCE SOLUTIONS
- BUILDING REPAIRS
- CABLE CONTAINMENT



# UPGRADING YOUR CURRENT SYSTEM

As an alternative to investing in a completely new power system, we can help you successfully upgrade or refurbish the control systems and infrastructure that you already have. Our experienced in-house team take great pride in making sure that every upgrade is trustworthy and reliable.



We can strip and rebuild any engine from basic generators, through to twin bank diesels and CHP units, always in line with our certified ISO systems. You can trust that all components used in the refurbishment are to the manufacturer's OEM specification, and where a replacement part is unavailable, we will use a refurbished part in line with manufacturer's OEM specification instead.

We also specialise in the factory reconditioning of sub-assemblies, including; crankshafts, nodal damper couplings, cylinder heads, water pumps, oil pumps, fuel pumps, fuel injectors, turbochargers, connecting rods and intercoolers.

With access to our full suite of product stores, overhead crane and quarantine area, our specialists can refurbish engines and alternators, and upgrade control panels, cooling systems, fuel systems and acoustic solutions.

**ALL REFURBISHMENT  
COMPONENTS ARE TO OEM  
SPECIFICATION OR EQUIVALENT.**



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