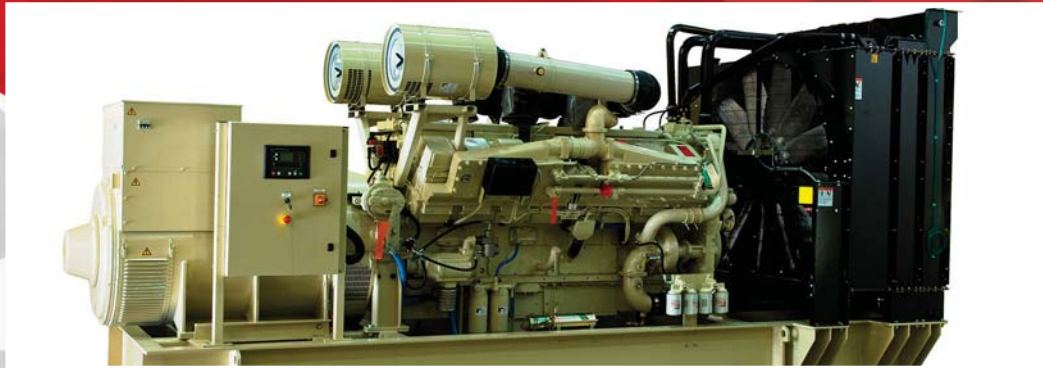
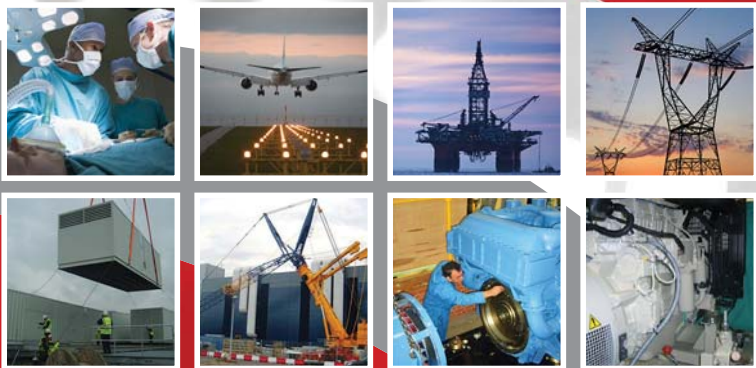


G & M Power Plant Ltd
INDUSTRIAL GENERATORS
10KVA – 2500KVA





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Company Overview

Pedigree

For over 60 years, G&M Power Plant has designed, manufactured, tested, installed, commissioned and supported power generation equipment for marine, industrial and military applications throughout the world. This is complimented by an ability to provide systems engineering and the manufacture and installation of all ancillary equipment and control systems.

In 2002 the company acquired Countryman Power Ltd, leaders in the industrial and defence markets.

This acquisition further added to the capability and expertise of G&M.

Range

10KVA – 2500KVA / 50Hz/1500rpm,
60Hz/1800rpm, 380v – 460v LV, 3.3kv MV, 11kv HV

Focus

G&M's focus is to meet the needs and demands of its clients through a continued commitment to provide high quality solutions, value for money engineering and technical excellence.

Methodology

In addition to more "standard" packages, G&M excels in the provision of bespoke designed and manufactured solutions to meet our clients exacting requirements. G&M holds strategic relationships with a number of mainstream engine and alternator manufacturers enabling us to offer customers the most cost-effective and technically compliant solution to meet their requirement.

G&M sales and technical staff work with existing and prospective customers to refine their specifications ensuring operational and performance objectives are achieved both efficiently and economically, whilst ensuring conformance with test and installation requirements.

Facilities

With a 15,000 sq ft (1,350 m sq) design, manufacture and test facility G&M is self sufficient in:

- Mechanical and electrical AutoCAD design with 3D capability when required
- Metal fabrication - fully certified coded welders
- Mechanical and electrical assembly
- Testing and inspection
- Painting and finishing

Complete in-house capability

- Preparation including levelling, de-burring / de-greasing and filling
- Painting – filler, primer, intermediate and top coat

Finishing

- Ministry of Defence war paint process
- Awlgrip finish for marine applications
- Two pack polyurethane
- Chlorinated Rubber



Inspection & Testing

- Ministry of Defence war paint process
- Testing of engines, alternators, controls and associated assembled equipment.
- Full load / heat trials
- Testing to specific customer requirements
- Testing and presentation of witness tests / inspection
- Third party / international inspection agency requirements
- Military & Commercial Standards
- NHS Trust HTM requirements
- WIMES / Petro-Chem applications

Tests are usually carried out against a resistive load.

When required tests can be carried out against our resistive/reactive load banks at a lagging power factor, including complete transient load test analysis and electronic display with print out of test results when necessary.

Final inspection includes

- Quality of finish review
- Final inspection of on-set cabling and pipework
- All documentation required for despatch / shipment
- Warning & safety labelling fitted as specified

Quality

G&M operates a comprehensive and consistent quality management system and are ISO9001: 2008 approved, as well as certified by Lloyds (LRS) for the design, manufacture and servicing of generating sets.

Each and every generator is manufactured to exacting standards and is fully load tested prior to dispatch to ensure the specified / designed performance requirements have been attained.

Capability

G&M Power Plant Ltd is acknowledged throughout the UK and across the world in the design; manufacture, testing, finishing, installation, commissioning and servicing of diesel engine powered generating sets and associated plant.

Applications include :-

Base Load Power

In the absence of a mains supply

Emergency & Standby Power

In the event of mains supply failure

Peak-opping / Exporting

Parallel operation with DNO
(Distribution Network Operator)
Synchronised to mains operation

Configurations

Single and multiple set packages as required

Ratings

10KVA – 2500KVA / 50Hz/1500rpm,
60Hz/1800rpm, 380v – 460v LV,
3.3kv MV, 11kv HV

Project Stages

Pre Design / Manufacture

- Identify customers requirements / needs
- Liaise with the customer to agree a suitable solution
- Determine any specialist requirements for off-loading & handling
- Provide Method Statements / Risk Assessments

Post Manufacture

- Service Support
- Individual and multiple set systems
- Engine driven / electrically driven radiator / remote cooled options
- Internal acoustic enclosures – Kit-form and packaged
- External weatherproof / acoustic enclosures / containers
- Fire suppression systems (mist / gas)
- Vibration control / isolation
- Controls and instrumentation
- Synchronising / distribution switchboards
- Fuel management / containment
- Reduction in exhaust gas emissions and particulates
- Motorised / Fire / Gas retention dampers and louvers

Throughout the project - Project Management / Consultancy Support

- Feasibility Study
- Installation Program
- Turnkey Project Management
- Post Installation Commissioning & Maintenance
- RA/MS

Transportation to site / installation and commissioning

- Delivery to site – Hyab / Flatbed / Low-loader
- Cranage / Banksman / AP / Traffic Management / Road Closures
- Off-loading
- Positioning of Fuel tanks (if not integral) and full bunding where required
- Positioning and Installation of Generator
- Installation of Attenuation (integral attenuators are already installed)
- Fuel system pipe work installation (DEFRA regulations)
- Exhaust system silencers / flues installation, lagging and cladding
- Electrical wiring
- Full load test against site load or temporary load banks
- On-site noise level tests can be conducted
- Customer witness test
- Snagging
- Clean down
- Final Quality check
- Hand over to Customer



Combined Skills

When approached with requirements for unique applications such as heat exchanger cooling and remote radiators, twin bearing couplings, TVA restraints (torsional vibration analysis) or operations within areas of high seismic activity, G&M is able to combine and demonstrate its broad range of diverse skills and expertise within the Marine and Industrial sectors.

G&M Industrial Market Sectors

G&M manufactures generating sets and associated equipment for many different clients and applications, recently we have supplied equipment into the following market sectors.

- Utilities Gas / Electricity / Water
- Financial Credit Cards / Banks / Stock Exchange / Dealer rooms
- Communications BT / NEC / Orange / 3G / Cable & Wireless
- Pharmaceutical Various National Corporates
- Government DTI / Land registry
- BAA Heathrow T5 / Edinburgh
- Petro-chemical KNPC
- NHS Trust Healthcare / Hospitals / London Ambulance
- Offshore Oil & Gas and Renewable Energy

G&M - Specialist Bespoke Solutions



Roof Installation

500t all terrain crane with full ballast to provide full contract lifting of generators & packaged substations onto roof



Fuel Tanks

2 x 90,00 litre self-bunded fuel storage tanks



Synchronised Sets

2 x 2MVA / 11kv containerised gensets configured to provide full synchronised, peak lopping and export capability



Off-load & Positioning

4000A packaged substation being lowered into position on secondary steel work at roof level



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