



POWER TECH
ENGINEERING SERVICES

ENGINEERED FOR PERFORMANCE
POWERED BY EXPERTISE

ABOUT POWERTECH

Powertech Engineering Services is a Namibia-based engineering and technical services company headquartered in Walvis Bay, specialising in the marine, offshore and oil & gas industries.

We provide practical engineering solutions for the maintenance, repair, refurbishment and overhaul of critical machinery, electrical systems and technical equipment.

Our capabilities span mechanical and electrical engineering, hydraulic systems, automation and instrumentation, propulsion and manoeuvring systems, dynamic positioning and associated vessel equipment.

With more than 20 years of combined industry experience, our team brings practical, hands-on engineering knowledge to demanding marine and offshore environments. Our mobile service capability enables us to support clients throughout Namibia, Africa and internationally.

We support both planned maintenance programmes and time-critical breakdowns, with a focus on quality workmanship, equipment reliability, operational continuity and reduced downtime.

Our approach is simple: understand the requirement, apply the appropriate expertise and deliver a professional, practical solution.



ELECTRICAL



**PROPULSION &
MANOEUVRING**



MECHANICAL



**DYNAMIC
POSITIONING**



**LIFTING &
RIGGING**

SERVICES

ELECTRICAL ENGINEERING SERVICES

Powertech provides practical electrical engineering services for marine, offshore and oil & gas applications. Our capabilities cover installation, fault finding, maintenance, testing, commissioning, refurbishment and repair of electrical, distribution, automation and instrumentation systems and equipment, with a focus on safety, reliability and operational performance.

Fault Finding & Electrical Repairs

Systematic fault finding, troubleshooting and repair of electrical systems and equipment to identify faults efficiently and restore reliable operation.



Electrical Installation & Rewiring

General electrical installation works including cable pulling, cable termination, rewiring, equipment installation and modifications to existing electrical systems.



Insulation Resistance Testing

Insulation resistance and electrical testing of cables, motors, generators, switchboards and other electrical equipment to assess insulation condition and identify deterioration or potential faults.



Switchboard Maintenance & Refurbishment

Inspection, maintenance, testing and refurbishment of electrical distribution equipment, including switchboards, transformers and associated power equipment, to maintain safe and reliable operation.

Rotating Electrical Machinery Reconditioning

Inspection, testing, maintenance and reconditioning of electrical motors, alternators and shaft generators. Services include fault diagnosis, cleaning, insulation assessment and testing, bearing replacement, component refurbishment and restoration to reliable operating condition.





SWITCHGEAR & PROTECTION SYSTEM MAINTENANCE

Powertech Engineering Services provides comprehensive HV switchgear maintenance and repair services for the marine and offshore industries. As part of applicable class requirements, high-voltage switchgear requires routine inspection and maintenance to ensure safe, reliable and continuous operation.

Our complete switchgear maintenance package covers switchgear and busbars, current and voltage transformers, protection relays, automation and control systems, and circuit breakers. Services include condition assessment, inspection, cleaning, mechanical servicing, contact and connection inspection, lubrication, repair and refurbishment.

Maintenance packages are tailored to the specific requirements and condition of each vessel and can be carried out onboard in port or offshore. Our experienced teams work around vessel operations to minimise disruption and reduce equipment downtime.

We utilise modern test and diagnostic equipment to assess equipment condition and verify performance following maintenance. Electrical and functional testing is conducted to ensure equipment is operating correctly and that measured values are within applicable specifications.



**Circuit Breaker
Maintenance & Testing**



Protection Relay Testing



Injection Testing

MECHANICAL ENGINEERING SERVICES

Powertech Engineering Services provides comprehensive mechanical maintenance, repair and overhaul solutions for marine and offshore equipment.

Our capabilities cover scheduled and preventative maintenance, breakdown and emergency repairs, fault finding and complete equipment overhauls, with a focus on restoring reliability, performance and operational readiness while minimising vessel downtime.



SCOPE OF SERVICES:



MAIN & AUXILIARY
ENGINES



GEARBOX & DRIVE
SYSTEMS



DECK MACHINERY



FUEL & LUBE OIL
SEPARATORS



HYDRAULICS &
PNEUMATIC SYSTEMS



HEAT EXCHANGERS



FIRE FIGHTING &
WATER PUMPS



PROPULSION & MANOEUVRING SYSTEMS

We provide scheduled maintenance and overhaul services for marine propulsion and manoeuvring systems. Our capabilities include steering gears, thrusters and associated hydraulic, mechanical and control components.

We undertake inspections, fault diagnosis, corrective repairs and major overhauls, addressing mechanical wear, hydraulic faults, component deterioration and system performance issues.

Our aim is to maintain the integrity and operational performance of propulsion and manoeuvring equipment in accordance with applicable technical and manufacturer requirements.

DP & THRUSTER CONTROL SYSTEMS

Powertech Engineering Services provides servicing, troubleshooting, repair and maintenance of Dynamic Positioning (DP) and thruster control systems used in marine and offshore applications.

Our services cover system diagnostics, fault identification, control system checks, component-level assessment and corrective intervention across DP and thruster control equipment. We work to identify system faults and restore reliable communication, control and functionality between the relevant propulsion and vessel control systems.

PROCUREMENT & PARTS SUPPLY

Powertech Engineering Services provides specialised procurement and supply services for a broad range of marine spare parts, with a strong focus on engine and propulsion spares. We source and supply quality components for main engines, auxiliary engines, thrusters and associated propulsion equipment, supporting vessel operators and maintenance teams with reliable parts and efficient sourcing solutions.



PROPULSION

Supply of parts and components for marine thruster systems, including tunnel thrusters, azimuth thrusters, bow thrusters and stern thrusters.



ENGINE SPARE PARTS

Supply of engine spare parts and components for diesel engines, including scheduled maintenance packages for top end and major overhauls.



ELECTRICAL

Supply of electrical parts and components for motors, generators, switchboards, switchgear, control panels and marine electrical systems.



DYNAMIC POSITIONING

Parts and components for dynamic positioning systems, including sensors, control system components, thruster-related equipment and associated DP hardware.



MACHINERY & EQUIPMENT SUPPLY

Supply of machinery and equipment including engines, gearboxes, pumps, generators and compressors.



ROTATING EQUIPMENT

Parts and components for rotating machinery, including winches, motors, generators, compressors, transmissions and associated equipment.



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“YOUR ENGINEERING SERVICES, EQUIPMENT AND PARTS SUPPLY PARTNER”



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