



POWER TECH
ENGINEERING SERVICES

MINING SECTOR



ENGINEERED FOR PERFORMANCE
POWERED BY EXPERTISE

ELECTRICAL | SWITCHGEAR & PROTECTION | MECHANICAL | ROTATING EQUIPMENT | PARTS SUPPLY

ABOUT POWERTECH

PowerTech Engineering Services is a Namibia-based engineering and technical services company headquartered in Walvis Bay. Alongside our work in the marine, offshore and oil & gas industries, we support the mining sector with electrical, switchgear, mechanical and rotating equipment services and parts supply.

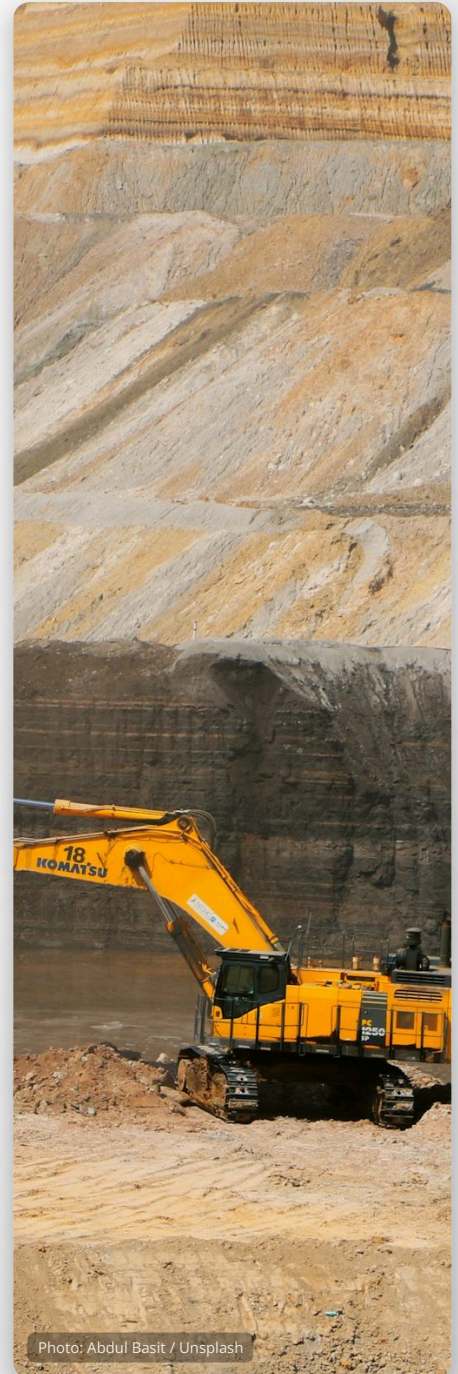
We provide practical engineering solutions for the maintenance, repair, refurbishment and overhaul of critical machinery, electrical systems and technical equipment – the power, plant and process equipment that keeps a mine operating.

Our capabilities span mechanical and electrical engineering, HV switchgear and protection systems, hydraulic systems, automation and instrumentation, rotating equipment and generators.

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

We support both planned maintenance programmes and shutdowns, 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



**SWITCHGEAR &
PROTECTION**



MECHANICAL



**ROTATING EQUIP.
& GENERATORS**



**PARTS &
SUPPLY**

SERVICES

ELECTRICAL ENGINEERING SERVICES

PowerTech provides practical electrical engineering services for mining and mineral processing operations. 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 plant and site 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 in plants, workshops and site infrastructure.



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 & Distribution Maintenance

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 electric motors, alternators and generators, such as those driving pumps, conveyors, fans and compressors. 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 mining operations, including site substations, plant switchrooms and processing facilities. High-voltage switchgear requires routine inspection and maintenance to ensure safe, reliable and continuous operation of the plant it supplies.

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 installation and can be scheduled into planned plant shutdowns. Our experienced teams work around production 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 mining and processing plant 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 plant downtime.



SCOPE OF SERVICES:



**DIESEL ENGINES &
GENERATOR SETS**



**HYDRAULIC &
PNEUMATIC SYSTEMS**



**GEARBOXES &
DRIVE SYSTEMS**



HEAT EXCHANGERS



**CRUSHERS, SCREENS
& CONVEYORS**



**PUMPS &
WATER SYSTEMS**



ROTATING EQUIPMENT & POWER GENERATION

We maintain, recondition and test the rotating equipment found across mine and plant sites, including electric motors, generators and alternators, pumps, compressors, gearboxes, transmissions and winches.

We undertake inspections, fault diagnosis, corrective repairs and major overhauls, addressing mechanical wear, component deterioration and performance issues in accordance with applicable technical and manufacturer requirements. For site power, we test and maintain generators and generator sets, including insulation resistance testing of windings and associated switchboards.

PLANT SHUTDOWN & BREAKDOWN SUPPORT

We support both planned maintenance programmes and time-critical breakdowns. For planned shutdowns, maintenance packages are tailored to the specific requirements and condition of the equipment, and our teams work around production schedules to minimise disruption and reduce equipment downtime.

When equipment fails, systematic fault finding and troubleshooting help us identify faults efficiently and restore reliable operation. Our mobile service capability enables us to support sites throughout Namibia, Africa and internationally.

Marine & offshore clients: propulsion and manoeuvring systems, steering gear, Dynamic Positioning (DP) and thruster control services are covered in our marine brochure.

PROCUREMENT & PARTS SUPPLY

PowerTech Engineering Services provides specialised procurement and supply services for mining and processing operations, with a strong focus on engine, electrical and rotating equipment spares. We source and supply quality components for diesel engines, generators, motors and associated plant equipment, supporting operators and maintenance teams with reliable parts and efficient sourcing solutions.



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 electrical systems.



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.

SEND US YOUR REQUIREMENT

Email part numbers, nameplate photos or specifications to info@powertech-es.com, or WhatsApp **+264 81 772 5122**.



POWER TECH

ENGINEERING SERVICES

ENGINEERING SERVICES FOR THE MINING SECTOR

“YOUR ENGINEERING SERVICES, EQUIPMENT AND PARTS SUPPLY PARTNER”



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RELIABLE EXPERTISE | RESPONSIVE SERVICE | PROVEN RESULTS