



Electric Motor, Alternator Rewinding & Dynamic Balancing Services

Reliable Restoration • Precision Balancing • Marine & Industrial Electromechanical Solutions

ALQAQNOOS Engineering provides comprehensive electric motor and alternator rewinding, dynamic balancing, and electromechanical repair services for marine, offshore, industrial, and power generation applications. Our mission is to restore rotating equipment to original or improved operational performance, minimizing downtime and extending service life.

While rewinding materials, insulation systems, and testing technologies are supported by approved manufacturers, **ALQAQNOOS** delivers full workshop and on-site technical execution, quality control, and certification.



1. Electric Motor Rewinding Services

We perform complete rewinding and refurbishment for **AC & DC motors of all ratings**, including:

- Stator and rotor rewinding
- Armature rewinding
- Insulation system replacement (Class F / Class H)
- Epoxy varnish impregnation & oven curing
- Burnt winding recovery and reconditioning
- Bearing replacement and mechanical alignment

Testing After Rewinding

- Insulation Resistance (IR)
- High-Potential (Hi-Pot)
- Surge comparison
- No-load current & temperature rise checks

2. Generator & Alternator Rewinding Services

We provide full electrical and mechanical restoration of:

- Main alternators
- Auxiliary generators
- Marine shaft-driven alternators

Scope

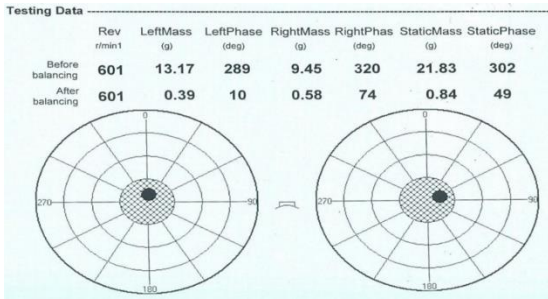
- Stator & rotor rewinding
- Slip ring & diode replacement
- AVR testing, configuration & calibration
- Complete overhaul and re-assembly
- Full load testing after repair

3. Dynamic Balancing Services

We provide **precision dynamic balancing** for rotating equipment in workshop Rotors, fans, impellers

- Shafts, pulleys & couplings
- Alternator rotors & motor armatures



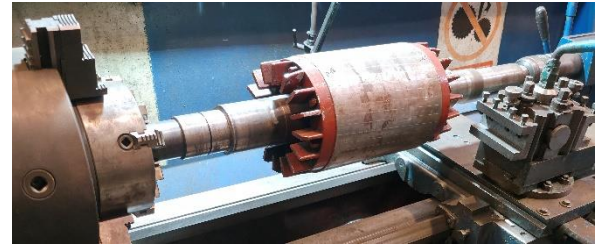


Benefits

- Vibration reduction
 - Bearing life extension
 - Lower mechanical stress
 - Improved efficiency & safety
- Balancing results are issued with formal vibration and balancing reports.

4. Mechanical & Electromechanical Repair

- Bearing replacement
- Shaft repair & machining
- Rotor straightening & alignment
- Cooling fan repair
- Surface cleaning, rust removal & industrial repainting



5. Preventive Maintenance & Condition Monitoring

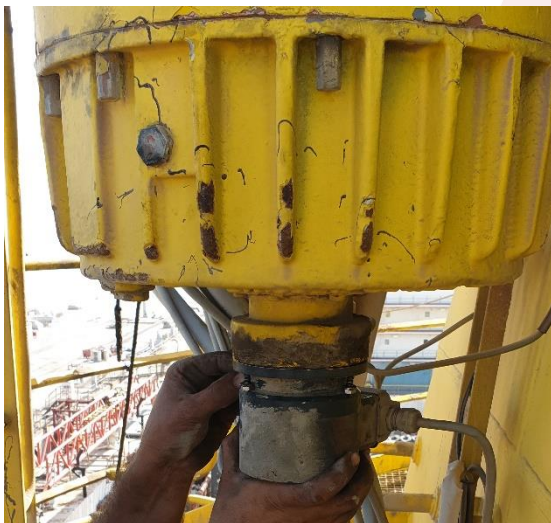
We offer predictive maintenance programs including:

- Thermal imaging
- Vibration analysis
- Condition monitoring
- Marine onboard inspections
- Early fault detection to prevent catastrophic failures



6. Additional Technical Services

- Custom coil manufacturing
- Mechanical machining work
- Control panel troubleshooting
- Emergency on-site repairs
- Pick-up & delivery of motors and generators



7. Industries We Serve

- Marine & Offshore
- Oil & Gas
- Manufacturing & Heavy Industry
- HVAC & Pump Systems

8. Workshop Equipment & Capabilities

- Advanced rewinding machines
- Impregnation & baking ovens
- Dynamic balancing machines
- Vibration analysis instruments
- Generator load testing systems
- Precision mechanical machining tools



9. Why Choose ALQAQNOOS?

- Skilled technicians with multi-industry expertise
- High-quality insulation & rewinding materials
- Fast turnaround with emergency repair support
- On-site & workshop service availability
- Competitive pricing
- Full testing and certification after repair
- Long-term client relationships & trust

Our Service Positioning

ALQAQNOOS acts as your technical service provider and integrator, while materials, insulation systems, and testing technologies are supplied and supported by certified industry manufacturers. This ensures international-standard quality with localized fast response support.

Your Trusted Partner in Rewinding & Rotating Equipment Reliability

ALQAQNOOS ensures your motors, alternators, and rotating machinery operate with maximum efficiency, reliability, and vibration-free performance—fully supporting marine and industrial mission-critical operations.

