



**Worldwide repair
and services on
motors, generators
and transformers**



Bakker Repair + Services, your partner for worldwide repair and services

Bakker Repair + Services has 40 years of experience in repair and service of motors, generators and transformers in the maritime sector. Our value added services offer you high quality, short delivery time and good pricing. We have comprehensive knowledge on all brands and types and work completely independent. Bakker Repair + Services provides on site services to customers worldwide.



Strategically located

With less than one hour driving distance to Rotterdam, Antwerp and Amsterdam. Bakker Repair + Services is strategically located near the most important ports of Europe. This enables us to offer quick and agile support to our customers 24/7.

Worldwide service

No matter where you need us, we can always support you. Bakker Repair + Services offers on site services to ships worldwide. Our highly experienced service engineers are qualified with a safety passport.

Repair on site

Ships have a tight schedule. It is costly to keep ships docked just to perform repairs. Therefore our works are fitted into the ship's schedule. We aim to perform work during the time window the ship is already docked. For example when (un)loading. In case more time is needed to perform repairs we offer the possibility to perform work during a trip.



Inspections and Measurements

What is the current condition of the machines on your ship? Unexpected damage has a great impact on the continuity of the process. Bakker Repair + Services periodically inspects your motors and generators. This enables our customers to detect (potential) failures early and take appropriate action timely.

Bakker Motor Circuit Analyzer (BMCA)

During the BMCA measurement the condition of the following aspects are measured resulting in an analysis of the power quality and performance:

- Stator windings
- Rotor bars
- Insulation
- Polarisation index
- Winding resistance

Features:

- Online & offline measurements
- Mobile equipment
- Quick condition measurement, less than 1 hour per machine
- Suitable for high and low voltage
- Report including conclusions and recommendations

Vibration measurement

By measuring and analyzing vibrations, the condition of the following aspects are monitored:

- Bearings
- Alignment
- Coupling
- Windings
- Lamination

Features:

- Periodic measurements to determine machine condition
- ISO 18436-2 category 2 certified
- Report including conclusions and recommendations

Videoscopic inspection

Internal visual inspection on your machine without disassembling. During a videoscopic inspection the following components are checked:

- Wedges
- Stator winding
- Rotor winding

Features:

- Timesaving
- Clear photos of internal components
- Report including photo's, conclusions and recommendations

Slide bearing inspection

A slide bearing inspection is a non destructive test to determine the condition of slide bearings. The following aspects are inspected:

- Bearing clearance
- Running surface
- Axial plane

Features:

- Non destructive testing (ultrasonic)
- Oil analysis (optional)
- Visual inspection
- Report including conclusions and recommendations

Thermographic measurement

During thermographic measuring the different heat levels in machines are compared in order to detect (possible) damages in an early stage.

Features:

- Ability to measure complete installation (motors, generators, switchboards, drives)
- Detect possible bad connections, overload and internal dirt
- Analysis of aging components
- Report including thermographic images, conclusions and recommendations



Repair in our workshop

Our workshop has 40 years of experience in overhauling, repairing and rewinding motors and generators. The modern workshop of Bakker Repair + Services measures 5500m². It includes an impregnation facility, a mechanic workshop, multiple steam cleaning facilities, a welding facility and a lifting capacity over 100 tons. High quality and short delivery times are our motto.

Overhaul

Bakker Repair + Services overhauls all kinds of high and low voltage AC and DC machines and is specialized in machines with a specific application such as submersible motors.

Balancing

We have 4 computer controlled balancing machines and can balance all rotating machines parts conform with ISO 1940, including rotors, couplings, crankshafts and gears.

Rewinding

The winding shop of Bakker Repair + Services is designed to rewind all AC and DC motors and generators with a short delivery time. During the rewinding multiple tests are carried out to assure our high quality standard. Our certified and experienced winders can also make coils and restore lamination.

Testing facility

As a quality assurance we test all repaired machines in our own specialized testing facility. We can also arrange certified testing.



Bakker Repair + Services

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