Bodine’s Electro-Mechanical Repair Division offers a variety of services that can help prevent unscheduled downtime at your facility by recognizing and correcting potential problems before they occur.

We can provide a customized, effective maintenance plan for our customers to optimize their equipment performance and lower long-term maintenance costs.

**ADDITIONAL SERVICES**
- Always accessible inventory management program
- Job tracking through ACS/Master for instant access to specifications, detailed job costs, pictures and test results

**PREDICTIVE & PREVENTIVE MAINTENANCE SERVICES**
- Electric motor testing with PdMA and Baker technology and analysis
- Infrared thermography to detect faults
- Field alignment and balancing with Prüftechnik technology
- Oil sampling and analysis
- Ultrasonic testing and analysis with UE Systems technology
- Lubrication and maintenance programs
- Vibration analysis, phase measurement and modal analysis
- Root cause failure analysis

(217) 423-2593  
(800) 252-3369  
24-Hour Emergency Repair Service  
www.bodinedecatur.com
ELECTRIC MOTOR TESTING

Electric motor testing is a process that assesses the health of a motor and its corresponding electric circuitry. The ability to detect and identify fault conditions before a failure occurs makes this process an invaluable component of a predictive maintenance program.

Regular testing of your electric motors can provide motor quality assurance, reduce unscheduled downtime and save money on energy costs.

ONLINE TESTING
✓ Start-up
✓ Rotor evaluation
✓ Eccentricity
✓ Power analysis
✓ Demodulation

OFFLINE TESTING
✓ Resistance to ground
✓ Capacitance to ground
✓ Resistive imbalance
✓ Polarization index and dielectric absorption
✓ Step voltage test
✓ Rotor influence check

INFRARED THERMOGRAPHY
✓ Detect faulty electrical connections or overloaded circuits
✓ Determine fluid levels in storage tanks, examine lines for blockage and assess the condition of heat exchangers
✓ Detect inefficient cooling, possible bearing issues and other abnormalities with electric motors and mechanical equipment
✓ Non-destructive testing

ELECTRO-MECHANICAL REPAIR CAPABILITIES

ELECTRIC MOTORS
✓ Rebuilding, repair and rewinding of AC/DC motors up to 5,000 HP
✓ Types of AC motors serviced: Medium voltage, NEMA and above NEMA frame, wound rotor, synchronous, vibrator, servo, explosion proof, IEC frame, inverter duty, hoist and crane, IEEE 841

MECHANICAL SERVICES
✓ Rebuild services and repair of bearing journals, housings and seal surfaces
✓ Line boring, bearings, housings
✓ Fabrication of replacement shafts
✓ Made-to-order replacement parts
✓ Types of equipment: Gear reducers/drives, pumps, blowers, fans, rotary and feeder valves, vacuum pumps, airlocks, compressors, trunnion rolls, Sharples

WELDERS & GENERATORS
✓ Generators: Authorized repair and warranty service for Kohler, Onan; service on residential, industrial and RV generators; load testing capabilities to 650kW
✓ Welders: Authorized repair and warranty service for Lincoln, Hobart, ESAB; service on gas- and electric-powered welders
✓ Plasma cutters: Authorized repair and warranty service for Thermal Dynamics, Thermal Arc, Hypertherm

POWER SERVICES
✓ AC/DC drives
✓ Board level repairs
✓ Circuit breakers
✓ Servo and stepper drives, servo motors
✓ Low and medium-voltage power distribution equipment
✓ Transfer switches
✓ UPS systems
✓ Programmable logic controllers

Bodine Electric
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