ELECTRO-MECHANICAL REPAIR

Bodine's Electro-Mechanical Repair Division offers a variety of services aimed at meeting all your electrical repair needs.

We have experienced, trained and certified technicians supported by an in-house engineering staff to analyze and correct the root cause of your reliability problems.

Bodine technicians can perform machining, welding, metalizing, plating and repair services on all types and brands of equipment.

Our facility is equipped with horizontal and vertical boring mills, lathes and a 300-ton press for repairs up to 50 inches in diameter and 14 feet in length.

EASA-ACCREDITED SERVICE CENTER

Our facility was approved as an EASA Accredited Service Center in March 2017.

ELECTRIC MOTORS
Rebuilding, repair and rewinding of AC/DC motors up to 5,000 HP in an EASA accredited facility

MECHANICAL SERVICES
Repair and rebuilding services for gear reducers, pumps, blowers, valves and more

WELDERS & GENERATORS
Authorized repair and warranty service for Miller and Lincoln welders, as well as generator repair and load testing to 650kW

POWER SERVICES
Repair of AC/DC drives, circuit breakers, UPS systems, servo motors/drives and more

PREDICTIVE MAINTENANCE
Vibration analysis, ultrasonic testing, oil analysis and infrared thermography

PREVENTIVE MAINTENANCE
Electric motor winding testing and analysis, dynamic balancing and greasing/lubrication services

(217) 423-2593
(800) 252-3369
24-Hour Emergency Repair Service

www.bodinedecatur.com
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
- DC motor services: Armature testing and rewinding, shunt and series coil testing and rewinding, TIG welding, armature connections and more
- Dynamic balancing up to 25,000 pounds
- Testing through 7,200 volts
- Dynamometer load testing to 900 HP
- UL Hazardous Location Recertification

WELDERS & GENERATORS

- Generators: Authorized repair and warranty service for Kohler, Onan; service on residential, industrial and RV generators; load testing capabilities to 650kW
- Plasma cutters: Authorized repair and warranty service for Thermal Dynamics, Thermal Arc, Hypertherm
- Welders: Authorized repair/warranty service for Miller, Lincoln, Hobart, ESAB; service on gas- and electric-powered welders; calibration programs designed to improve welder efficiency
- Planned maintenance contracts and services

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
- Engineering services for installations or modifications
- Gear reducers/drives: Replacement gearing, Cone Drive SWITFCenter, Radicon, SEW Eurodrive
- Pumps: Fabrication of wear rings; bearing supports; wet-end wear protection for corrosion and abrasion
- Other equipment: Blowers and fans (balancing lobes/impellers); rotary and feeder valves, vacuum pumps and more

POWER SERVICES

- AC/DC drives
- Board level repairs
- Circuit breaker services: Repair, retrofit and oil testing; air magnetic/vacuum circuit breakers/contacts; vacuum interrupter testing; solid-state retrofitting; primary/secondary injection testing; protective relay calibration
- Transfer switches
- UPS systems
- Servo and stepper drives, servo motors
- Low and medium-voltage power distribution equipment
- Process control equipment
- Programmable logic controllers
- Touch screen/operator interfaces

OUR COMMITMENT TO QUALITY REPAIRS

Bodine’s repair facility is an EASA Accredited Service Center, having demonstrated that it follows the highest industry standards to maintain or improve AC electric motor efficiency and reliability. We’ve been a member of EASA since 1978.

Our facility is also UL certified (#E64817) to rebuild motors and generators for use in hazardous locations.

PREDICTIVE/PREVENTIVE MAINTENANCE

- Electric motor testing: PdMA and Baker testing and analysis of motors/circuitry
- Infrared thermography: Detect electrical faults such as bad connections or overloaded circuits; electrical and mechanical inspections
- Ultrasonic testing: Leak detection; steam trap, valve and bearing inspections; UE Systems technology
- Vibration analysis: Record and analyze data to detect and diagnose faults
- Field alignment and balancing: Dynamic balancing with Prüftechnik Vibxpert II; laser couple alignment with Prüftechnik Rotalign Ultra
- Insulation resistance testing
- Oil analysis
- Root cause failure analysis
- Lubrication and customized maintenance programs

Bodine Electric
(217) 423-2593
(800) 252-3369
1845 N. 22nd St.
Decatur, IL 62526