WE KEEP ELECTRIC MOTORS AND GENERATORS RUNNING

REPAIR SERVICES

Motor & Generator Repair
- AC motor repair thru 3,500 HP
- DC motor repair thru 3,000 HP
- VPI—100% solids epoxy resin
- 10-ton crane capacity
- Dynamic balance stand up to 22,500 lbs.
- CSA® certification
- Stator and rotor restacking
- Commutator profiling and resurfacing
- AC & DC motor redesign
- Pick up and delivery service

Motor & Generator Rewind Technologies
- "Global VPI" Stator Rewinds
  - PowerLok™ up to 7.2 kV with 1-year warranty
  - PowerSeal™ up to 7.2 kV with 5-year warranty
  - MegaSeal™ up to 15 kV with 5-year warranty
- "B-Stage" Resin-Rich Stator Coils
- IntegraCoil™ up to 15 kV with 1-year warranty
- HydroCoil™ up to 15 kV for hydro generators

Motor & Generator Testing
- No load testing to 5,000 HP
- Run testing to 4,100 VAC / 500 VDC
- Slotted test pad (5’ x 9’)
- Core Loss Testing
- Vibration Analysis
- Thermography
- Polarization Index Test
- Rotor Cage Integrity Test
- Resistivity, Hi-Pot (AC & DC), Megger®, Surge test

Authorized Warranty Repair
- ABB
- Elin Motoren
- Toshiba
- ATB Morley
- Leeson
- Baldor
- Reliance
- US Motors
- WEG
- Dodge
- Siemens

Design & Build Custom Panels
- CSA Approved Panels built in-house
- Soft Starters
- Variable Frequency Drives
- Controls and Low Voltage Products
- Manual Motor Starters
- Cabinets—Custom and NEMA 1, 3R, 4, 4X or 12

Machining Capabilities
- Lathes—up to 56” x 156”
- Milling—Vertical and Horizontal
- Welding—MIG/TIG
- Flame Spray Metallizing
- Brush Electroplating
- Pressing—up to 300 tons
- Radial drill press

Mechanical Repair
- Gearbox and Reducers
- Dodge TXT & CST reducer repair
- Pumps—centrifugal/submersible/vacuum
- Gear motor, clutches, brakes
- Fans, Blowers, Hoists
- Mechanical adjustable-speed drives
- Crusher repair—all types
- Parts manufacturing (shafts, bases, housings)

Electronic Repair
- Circuit boards—all manufacturers
- AC & DC drives, operator interfaces, servo controls
- PLCs, I/O modules, power supplies, instruments
- Transformers, switchgear, breakers, and UPS
- Servos and Specialty Motors
- Coils and Magnets

F I E L D  S E R V I C E S

Predictive Maintenance
- Vibration analysis
- Thermography
- Ultrasonic testing
- Oil analysis and lubrication programs
- Synchronous rotor diagnostics
- Current analysis trending
- Motor efficiency testing

On-site Commissioning and Repair
- Installation and commissioning
- Emergency and outage support
- Mechanical balancing, machining and repair
- AC & DC motor and generator repair
- Stator and armature rewinding
- Drive and soft start

Preventive Maintenance
- Precision laser alignment
- Cryogenic "dry ice" cleaning
- Commutator and slip ring service
- Filter replacements
- Lubrication programs
- Equipment inspections
- VFD cleaning, testing and component verification
- Cable testing and locating

Performance Improvement Services
- Disaster, contingency and recovery programs
- Maintenance assessments and programs
- Reliability engineering
- Training programs for new drives and controls
PRODUCT SALES

AC & DC Motors, Controls and Spare Parts

- NEMA and Above NEMA motors
- HVAC, Industrial, Micro, DC and Servo
- Drive Accessories—Dynamic Braking, Line Filters, Line Reactors
- Transformers, Harmonic Mitigation
- AC & DC Drives
  - HVAC, Industrial, Micro, DC and Servo
  - Drive Accessories—Dynamic Braking, Line Filters, Line Reactors
  - Transformers, Harmonic Mitigation
- Custom Control Panels
  - CSA Panels—NEMA 1, 3R, 4, 4X or 12
  - Manual Motor Starters and Soft Starters
  - Contactors, Relays, Timers, Disconnects, Switches, Circuit breakers, Capacitors...
- Power Quality Devices
  - Uninterrupted Power Supply
  - Low Voltage Capacitors & Capacitor Banks
  - Power Quality Filters
- Phase Converters
  - Static and rotary phase converters
cuL labeled
  - Variety of enclosure options
- AC & DC—Coils and Armatures
  - AC stator coils (up to 15 kV)
  - AC rotating fields—edge and wire wound
  - DC armature and field coils
  - Specialty coils (brake, transformer, etc.)
- CNC Precision Machined Parts
  - Shafts up to 23" diameter and 80" long
  - Milling to 20" x 40" plate—Flat/Hex parts
  - Hole drilling and tapping
  - 3D CADCAM

NORTH AMERICAN COVERAGE

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