

WE KEEP ELECTRIC MOTORS AND GENERATORS RUNNING

REPAIR SERVICES

Motor & Generator Repair

- AC motor repair thru 15 kV or 80,000+ HP
- DC motor repair thru 10,000+ HP
- **Nuclear**—Safety and contaminated services available
- **Hydro**—On-site generator rewind and maintenance
- 14 ft. VPI—100% solids epoxy resin
- 145-ton lifting capacity
- Dynamic balance stand up to 25,000 lbs.
- Certified to ISO Standard 9001:2008
- UL® certification
- Stator and rotor restacking

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 Replacement Service

- Dimensional adaptation—"drop-in" replacement
- Manufacture of motor from scratch
- AC & DC motor redesign and voltage changes
- Tested and backed by a 1-year warranty

Specialty Motor Repair

- Wound-rotor AC
- Motor/Generator sets
- Hermetic
- Submersible
- Mill duty
- Explosion proof
- Variable speed
- Vertical
- High-efficiency AC
- Servo, Spindle, Arbor and Low-voltage DC

Motor & Generator Testing

- Full load testing thru 900 HP
- No-load testing thru 12,000 HP
- Run testing to 13,800 VAC / 1,000 VDC
- Motor Circuit Evaluation (MCE)
- EL CID testing
- TVA Corona Probe
- Electric Discharge Machining Diagnostics (EDM)
- Computerized Core Loss up to 300 kVA
- Vibration Analysis
- Thermography
- Polarization Index Test
- Resistivity, Hi-Pot (AC & DC), Megger®, Surge test

Mechanical Repair

- Lathe—10' swing x 36' length
- Gear reducer rebuilding
- Pumps—centrifugal/submersible/vacuum
- Gear motor, clutches, brakes
- Fans, blowers, heat exchangers
- Mechanical adjustable-speed drives
- Bearing Rebabbling
- Pressing—up to 75 tons
- Key broaching and seating up to 1.5"
- Welding—MIG/TIG
- Flame spray metallizing

Electronic Repair

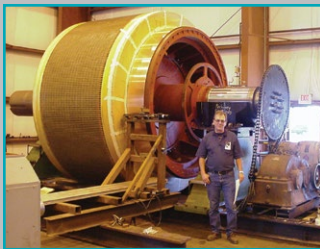
- Circuit boards—all manufacturers
- AC & DC drives, operator interfaces, servo controls
- PLC's, I/O modules, power supplies, instruments

Authorized Warranty Repair

- | | | |
|-----------|--------------|------------|
| • ABB | • ATB Morley | • Baldor |
| • Dodge | • KATO Eng. | • Reliance |
| • Siemens | • Toshiba | • WEG |



IntegraCoil™ 15 kV stator rewind



145-ton lifting capacity



Dedicated winding clean room



On-site hydro generator rewind

Cleveland Service Center

5325 W. 130th Street
Cleveland, OH 44130

800.433.7801

216.433.7800

216.433.0456 (FAX)

www.ips.us

FIELD SERVICES

On-site Services

- Installation and commissioning
- Synchronous rotor diagnostics
- Filter replacements
- Emergency and outage support
- Motor Circuit Evaluation (MCE)
- EL CID testing and TVA Corona Probe
- Cryogenesis "dry ice" cleaning
- Vibration and Modal analysis
- Laser alignment and bearing current detection
- Thermography and Ultrasonic testing
- Oil analysis and lubrication programs
- Mechanical balancing, machining and repair
- Commutator and slip ring field machining and profiling
- Stator and armature rewinding

Motor Storage Programs

- 15,000 sq. ft. warehouse
- Temperature controlled
- Shaft rotation
- Windings meggered
- 24/7 on-call service
- Full documentation



Performance Improvement Services

- Disaster, contingency and recovery programs
- Maintenance assessments and programs
- Reliability engineering
- Training programs

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PRODUCT SALES

AC & DC Motors—NEMA and Above NEMA, Gearmotors, Parts



Authorized Reliance OEM Replacement Parts

AC & DC—Coils and Armatures



- AC stator coils (up to 15 kV)—IntegraCoil™ B-stage hard coils, VPI and sealed coil systems
- AC rotating fields—edge and wire wound
- DC armature coils—VPI, dip and bake and sealed coil systems
- DC field coils—Shunts, Series, Compound, Rotor Bars, I-Poles
- Specialty coils (brake, transformer, etc.)

CNC Precision Machined Parts



- Shafts up to 23" diameter and 80" long
- Milling up to 20" x 40" plate—Flats and Hex parts
- Hole drilling and tapping
- Keyway machining
- Digital Bore gauges
- 3D CAD/CAM

Unit Exchange & Remanufacture Programs



- Mill Duty and Base Fan Motors
- Dodge TXT Reducers—Sizes 3 thru 15
- Underground Mining Motors
- Wind Generators—multiple brands and sizes



NEMA motors



Above NEMA motors

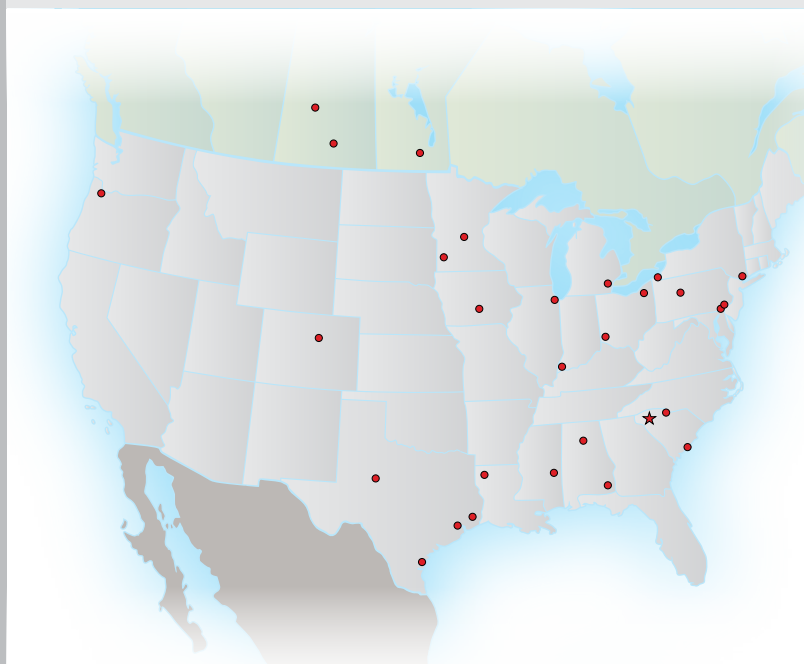


Spare stator coils up to 15 kV



Remanufactured field coils
- edge and wire wound

NORTH AMERICAN COVERAGE



UNITED STATES

Beaumont, TX	Evansville, IN
Birmingham, AL	Folcroft, PA
Charleston, SC	Greenville, SC
Chicago, IL	Houston, TX
Cincinnati, OH	Indiana, PA
Cleveland, OH	Lake Benton, MN
Clifton, NJ	Litchfield, MN
Corpus Christi, TX	Meridian, MS
Denver, CO	Philadelphia, PA
Des Moines, IA	Portland, OR
Detroit, MI	Rock Hill, SC
Dothan, AL	Shreveport, LA
Erie, PA	Sweetwater, TX

CANADA

Regina, SK
Saskatoon, SK
Winnipeg, MB

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