

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
- 10 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

WE KEEP ELECTRIC MOTORS AND GENERATORS RUNNING

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 | Greenville, SC |
| Birmingham, AL | Houston, TX |
| Chicago, IL | Indiana, PA |
| Cincinnati, OH | Lake Benton, MN |
| Cleveland, OH | Litchfield, MN |
| Corpus Christi, TX | Philadelphia, PA |
| Denver, CO | Portland, OR |
| Detroit, MI | Rock Hill, SC |
| Dothan, AL | Rock Springs, WY |
| Erie, PA | Shreveport, LA |
| Evansville, IN | Sulphur, LA |
| Folcroft, PA | Washington, PA |

CANADA

- Regina, SK
- Saskatoon, SK
- Winnipeg, MB

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