

WE KEEP ELECTRIC MOTORS AND GENERATORS RUNNING

REPAIR SERVICES

Motor & Generator Repair

- In-shop capabilities—
 - AC motors up to 6,900 VAC or 10,000 HP
 - DC motors up to 600 VDC or 5,000 HP
 - Generator repair up to 7.5 MW
- 7 ft. VPI—100% solids epoxy resin
- 20-ton crane capacity
- Dynamic balance stand up to 10,000 lbs.
- UL® certification
- Stator and rotor restacking/replacing
- Commutator profiling and resurfacing
- AC & DC motor redesign

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

Specialty Motor Repair

- Synchronous, brush and brushless
- Wound-rotor AC
- Hermetic, Submersible, Vertical and Mill-duty
- Explosion Proof
- Mining and Wheel drive
- Variable speed
- High-efficiency AC
- Navy and Marine
- Traction equipment
- Servo, Spindle, Arbor and Low-voltage DC

Electronic Board Repair

- Circuit Boards—All manufacturers
- AC & DC Drives, operator interfaces, servo controls
- PLC's, I/O Modules, Power Supplies, Instruments

Motor & Generator Testing

- AC Test Panel to 13.8 kV/63 A
- DC Test Panel to 600 V/1875 A
- Synchronous Test Panel
- Baker 5-in-1 winding tester
- Computerized Core Loss
- Vibration Analysis (Spectral)
- Thermography
- Polarization Index Test
- Resistivity, Hi-Pot (AC & DC), Megger®, Surge test

Authorized Warranty Repair

- ABB
- Dodge
- Siemens
- ATB Morley
- Reliance
- WEG
- Baldor
- Sicomotori
- TECO Westinghouse

Mechanical Repair

- Gear reducer repair
- Dodge TXT & CST reducer repair
- Gearmotors, clutches, brakes
- Fans, blowers, heat exchangers
- Mechanical adjustable-speed drives
- Crusher repair
- Parts manufacturing (shafts, bases, housings)

Machining Capabilities

- Lathe—up to 51" x 156"
- Milling—up to 54"
- Horizontal press—up to 600 tons
- Vertical press—up to 50 tons
- Key broaching
- Flame spray metallizing
- Welding—Sub-Arc/MIG/TIG



AC generator rewind



DC motor rewind



7' VPI tank



Company-owned truck fleet

FIELD SERVICES

On-site Services

- Installation and commissioning
- Motor and generator rigging and removal
- Emergency and outage support
- Motor Circuit Evaluation (MCE)
- Cryogenic "dry ice" cleaning
- Laser alignment and bearing current detection
- Vibration analysis
- Thermography
- Oil analysis and lubrication programs
- Mechanical balancing
- In-place commutator turn and undercut
- AC & DC motor and generator repair
- Stator and armature rewinding

Performance Improvement Services

- Maintenance assessments
- Preventive, predictive maintenance programs
- Condition monitoring
- Motor, pump, gearbox management
- Motor efficiency studies
- Contingency planning
- Reliability engineering
- Training programs
- Inventory management
- Project management
- On-site matching

Litchfield Service Center
111 East 10th Street
Litchfield, MN 55355

888.694.6200
320.693.6200
320.693.0243 (FAX)
www.ips.us

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 16" diameter and 60" long
- Milling up to 20" x 40" plate—Flats and Hex parts
- Hole drilling and tapping
- Keyway machining
- Digital Bore gauges
- 3D CAD/CAM

Dodge TXT Advanced Exchange & Remanufacture Program



- 1 year warranty on Advanced Exchange or Remanufactured units
- Sizes 3 thru 15
- Rebuilt with genuine Dodge parts
- Rebuilt to original designed specifications



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 |
| Des Moines, IA | Shreveport, LA |
| Dothan, AL | Sulphur, LA |
| Erie, PA | Sweetwater, TX |
| Evansville, IN | Washington, PA |
| Folcroft, PA | |

CANADA

Regina, SK
Saskatoon, SK
Winnipeg, MB

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