

WE KEEP ELECTRIC MOTORS AND GENERATORS RUNNING

REPAIR SERVICES

Motor & Generator Repair

- AC motor repair thru 20,000 HP
- DC motor repair thru 10,000 HP
- Dedicated small motor (<=690 VAC) repair center
- **Wind**—generator repair up to 3+MW
- **Hydro**—on-site generator rewind and maintenance
- 7 ft. VPI—100% solids epoxy resin
- 40-ton crane capacity
- Dynamic balance stand up to 15,000 lbs.
- UL® certification
- Stator and rotor restacking
- Commutator profiling and resurfacing
- AC & DC motor redesign
- Bearing rebabbiting
- 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

Specialty Motor Repair

- Synchronous, brush and brushless
- Wound-rotor AC
- Motor/Generator sets
- Hermetic, Submersible and Vertical
- Mill duty
- Explosion proof, Mining
- Variable speed
- High-efficiency AC
- Top Drive
- Traction equipment
- Wheel drive
- Servo, Spindle, Arbor, Low-voltage DC



Motor & Generator Testing

- Full load testing thru 1,500 HP
- Run testing to 7,200 VAC / 700 VDC
- Motor Circuit Evaluation (MCE)
- IEEE 1776-2008 Water Immersion
- Core Loss Test (Computerized)
- Vibration Analysis (Spectral)
- Thermography
- Polarization Index Test
- Locked rotor testing
- Resistivity, Hi-Pot (AC & DC), Megger®, Surge test

Mechanical Repair

- Gear reducer rebuilding
- Dodge TXT Spare Exchange Program
- Dodge CST reducer repair
- Conveyor pulley repair and re-lagging
- Pumps—centrifugal/submersible/vacuum
- Gear motor, clutches, brakes
- Fans, blowers, heat exchangers
- Mechanical adjustable-speed drives
- Crusher repair—all types
- Belt magnet repair
- Milling—Vertical and Horizontal
- Welding—Sub-arc/MIG/TIG
- Flame spray metallizing
- 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

Authorized Warranty Repair

- | | | |
|-----------|--------------|---------------|
| • ABB | • ATB Morley | • Baldor |
| • Dodge | • Reliance | • Sicmemotori |
| • Siemens | • SKF | • WEG |



PowerSeal™ VPI rewind



Load testing to 1,500 HP and 7,200 VAC / 700 VDC



Wind generator repair up to 3+MW



Motor Circuit Evaluation (MCE)

Denver Service Center

1020 S. Lipan Street
Denver, CO 80223

800.448.0899

303.935.4615

303.935.0129 (FAX)

www.ips.us

FIELD SERVICES

On-site Services

- Installation, commissioning 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
- Hydro-electric generator maintenance
- Mechanical balancing, machining and repair
- AC & DC motor and generator repair

Performance Improvement Services

- Maintenance assessments
- Preventive, predictive maintenance programs
- Condition monitoring
- Diesel Generator Maintenance and Repair
- Contingency planning
- Reliability engineering
- Training programs
- PLC programming and troubleshooting
- Inventory management
- Project management
- Motor, pump, gearbox management

WE KEEP ELECTRIC MOTORS AND GENERATORS RUNNING

PRODUCT SALES

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



NEMA motors



Above NEMA motors



Spare stator coils up to 15 kV



*Remanufactured field coils
- edge and wire wound*

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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

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