

WE KEEP ELECTRIC MOTORS AND GENERATORS RUNNING

## REPAIR SERVICES

### Motor & Generator Repair

- AC motor repair thru 10,000 HP
- DC motor repair thru 7,000 HP
- Dedicated small motor (<=600VAC) repair center
- 10 Ft. VPI—100% solids epoxy resin
- 17.5-ton crane capacity
- Dynamic balance stand up to 20,000 lbs.
- UL® certification
- Stator and rotor restacking
- Commutator profiling and resurfacing
- AC & DC motor redesign
- Bearing rebabbiting
- Brush electroplating
- Pick up and delivery service

### Motor & Generator Rewind Technologies

- Premium VPI Insulation Systems
  - EnduraSeal® MV (up to 6.9 kV) with 5-year warranty
- IntegraSeal™ B-stage Stator Coils up to 15 kV

### Specialty Motor Repair

- Synchronous, brush and brushless
- Wound-rotor AC
- Motor/Generator sets
- Generator rewinds—Hydro and Wind
- Hermetic
- Submersible
- Vertical
- Mill duty
- Mining
- Variable speed
- High-efficiency AC
- Navy and Marine
- Traction equipment
- Wheel Drive
- Servo, Spindle, Arbor and Low-voltage DC

### Motor & Generator Testing

- Full load testing thru 1,250 HP
- Run testing to 6,900 VAC / 750 VDC
- Motor Circuit Evaluation (MCE)
- IEEE 429 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 and CST reducer repair
- Hydraulic cylinders
- Pumps—centrifugal/submersible/vacuum
- Gear motor, clutches, brakes
- Fans, blowers, heat exchangers
- Mechanical adjustable-speed drives
- Compressors
- Vertical/horizontal mills
- Pressing up to 200 tons
- Diamond burnishing and flame spray metallizing
- MIG/TIG welding
- Parts manufacturing (shafts, bases, housings)

### 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
- Dodge
- Siemens
- ATB Morley
- Reliance
- WEG
- Baldor
- Sicomotori



EnduraSeal® VPI Rewind



10' VPI tank



Load testing to 1,250 HP and 6,900 VAC / 750 VDC



Motor Circuit Evaluation (MCE)

### IPS Carolina

1332 Fire Tower Road  
Rock Hill, SC 29730

800.868.3702

803.324.3700

803.324.0434 (FAX)

[www.ips.us](http://www.ips.us)

## FIELD SERVICES

### On-site Services

- Installation and commissioning
- Emergency and outage support
- Motor Circuit Evaluation (MCE)
- Cryogenic "dry ice" cleaning
- Laser alignment and bearing current detection
- Vibration analysis
- Thermography
- Ultrasonic testing
- Oil analysis and lubrication programs
- Hydro-electric generator maintenance
- Mechanical balancing, machining and repair
- AC & DC motor and generator repair
- Commutator and slip ring service
- Stator and armature rewinding

### Performance Improvement Services

- Maintenance assessments
- Preventive and predictive maintenance programs
- Condition monitoring
- Motor efficiency studies
- Contingency planning
- Reliability engineering
- Training programs
- CMMS setup
- Power services analysis
- Inventory management
- Project management
- Motor, pump, gearbox management

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**PRODUCT SALES**

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



**Authorized Reliance OEM Replacement Parts**

**AC & DC—Coils and Armatures**



- AC stator coils (up to 15 kV)—IntegraSeal™ 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

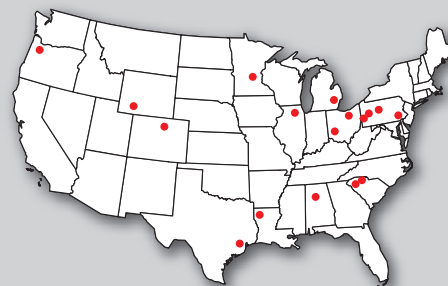
**Dodge TXT Advanced Exchange & Remanufacture Program**



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

**IPS NETWORK CAPABILITIES**

**Coast-To-Coast Coverage**



- Birmingham, AL
- Chicago, IL
- Cincinnati, OH
- Cleveland, OH
- Denver, CO
- Detroit, MI
- Glassport, PA
- Houston, TX

- Indiana, PA
- Litchfield, MN
- Philadelphia, PA
- Portland, OR
- Rock Hill, SC
- Rock Springs, WY
- Shreveport, LA
- Washington, PA

**Motor & Generator Repair**

- AC motor repair thru 15 kV or 80,000+ HP
- DC motor repair thru 10,000+ HP
- MegaSeal™ HV (up to 15 kV) with 5-year warranty
- 14 Ft. VPI—100% solids epoxy resin
- 145-ton lifting capacity
- Dynamic balance stand up to 100,000 lbs.
- Nuclear—Safety & contaminated services available
- Wind—Up to 3+MW generator repair & uptower service
- Mining—MSHA Certification motor repair
- Hydro—On-site generator rewind and maintenance

**Motor & Generator Testing**

- Full load testing thru 4,500 HP
- No load testing up to 37,500 HP
- Run testing to 15,000 VAC / 1,000 VDC
- Computerized Core Loss up to 500 kVA
- Doble® testing
- Partial Discharge testing
- EL CID testing
- TVA Corona Probe
- IEEE 429 Water Immersion
- IEEE 1043 Voltage Endurance



NEMA motors



Above NEMA motors



Spare stator coils up to 15 kV



Remanufactured field coils - edge and wire wound

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