

**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
- **Wind**—generator repair up to 3+MW
- Random wound coil manufacturing
- 7 Ft. VPI—100% solids epoxy resin
- UL® re-certification, explosion-proof motor rebuilds
- Precision dynamic balancing
- Bearing reabbating
- Commutator resurfacing
- Brush electroplating
- AC & DC motor redesign

**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**

- Custom designs
- Low-voltage DC
- High-efficiency AC
- Wound-rotor AC
- Above- and below-ground mining motors
- Mill duty
- Traction
- Variable-speed
- Navy and Marine
- Hermetic
- Submersible
- Wheel drive
- Motor/Generator sets
- Annealing furnace fan motors
- Synchronous
- Servo

**Motor & Generator Testing**

- Full load testing thru 1,500 HP
- Run testing to 13,800 VAC / 750 VDC
- Motor Circuit Evaluation (MCE)
- IEEE 429 Water Immersion
- Core Loss Test (Computerized)
- Vibration Analysis (Spectral)
- Thermography
- Heat run
- 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
- Pumps—centrifugal/submersible/vacuum
- Gear motor, clutches, brakes
- Fans, blowers, heat exchangers
- Mechanical adjustable-speed drives
- Vertical/horizontal mills
- Pressing up to 300 tons
- MIG/TIG welding
- Parts manufacturing (shafts, bases, housings)

**CNC Precision Machining**

- 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



Mining motor exchange and repair



AC motor repair up to 10,000 HP



Load testing to 1,500 HP and 13,800 VAC / 750 VDC



24-hour truck service

**IPS Electro-Mec**  
4470 Lucerne Road  
P.O. Box 159  
Indiana, PA 15701

**800.537.0097**  
724.479.9066  
724.479.0531 (Main FAX)  
724.479.3573 (New Motor FAX)  
[www.ips.us](http://www.ips.us)

**FIELD SERVICES**

**On-site Services**

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

**Performance Improvement Services**

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

**WE KEEP ELECTRIC MOTORS AND GENERATORS RUNNING**

**PRODUCT SALES**

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



Authorized Siemens, GE and 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.)

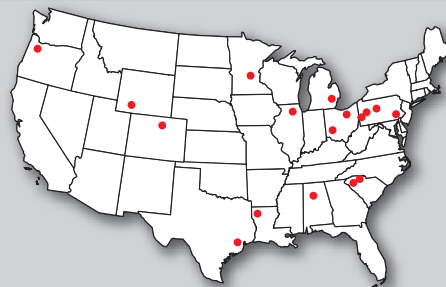
Dodge TXT Advanced Exchange & Remanufacture Program



- 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



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—Per 10CFR50 Appendix B and ANSI N45.2
- 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® and Partial Discharge testing
- Operational Deflection Mode Shape (ODMS)
- EL CID testing
- TVA Corona Probe
- IEEE 1043 Voltage Endurance

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|----------------|------------------|
| Birmingham, AL | Indiana, PA      |
| Chicago, IL    | Litchfield, MN   |
| Cincinnati, OH | Philadelphia, PA |
| Cleveland, OH  | Portland, OR     |
| Denver, CO     | Rock Hill, SC    |
| Detroit, MI    | Rock Springs, WY |
| Glassport, PA  | Shreveport, LA   |
| Houston, TX    | Washington, PA   |



NEMA and Above NEMA inventory



Spare stator coils up to 15 kV



Remanufactured field coils  
- edge and wire wound



CNC precision parts

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