

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
- 7 Ft. VPI—100% solids epoxy resin
- 20-ton crane capacity
- Precision balance stand up to 25,000 lbs.
- UL® certification
- Stator and rotor restacking/replacing
- Commutator profiling and resurfacing
- 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

- Synchronous, brush and brushless
- Wound-rotor AC
- Motor/Generator sets
- Generator rewinds – Hydro and Wind
- Hermetic, Submersible and Vertical motors
- Mill duty, Runout table and Annealing furnace fan motors
- Explosion proof
- Variable speed
- High-efficiency AC
- Navy and Marine
- Traction equipment

Authorized Warranty Repair

- | | | |
|-----------|--------------|--------------|
| • ABB | • ATB Morley | • Baldor |
| • Dodge | • Reliance | • Sicomotori |
| • Siemens | • Toshiba | • WEG |

Motor & Generator Testing

- Full load testing thru 800 HP
- Run testing to 4,160 VAC / 700 VDC
- Motor Circuit Evaluation (MCE)
- 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
- Pumps—centrifugal/submersible/vacuum
- Gear motor, clutches, brakes
- Fans, blowers, heat exchangers
- Mechanical adjustable-speed drives
- Vertical/horizontal mills
- Pressing up to 300 tons
- Brush electroplating
- MIG/TIG welding
- 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

Transformer and Reactor Repair

- Dry-type transformer repair thru 30 kV, 10 MVA
- Low-voltage, high current transformer repair
- Water-cooled transformer repair
- Dry-type reactor repair thru 30 kV



EnduraSeal® VPI Rewind



Run testing to 4,160 VAC / 700 VDC



Transformer and Reactor repair



Motor Circuit Evaluation (MCE)

IPS Chicago

17001 South Vincennes Road
Thornton, IL 60476

800.978.4559

708.877.5310

708.877.6516 (FAX)

www.ips.us

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

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)—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

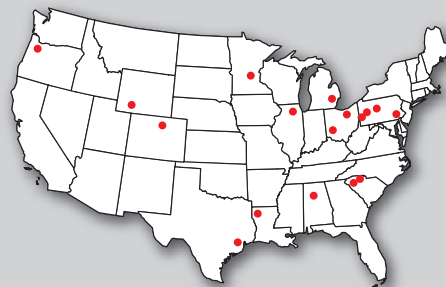
Dodge TXT Advanced Exchange & Remanufacture Program



- 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**—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
- 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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