

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
- 7 Ft. VPI—100% solids epoxy resin
- 20-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 reabbating
- 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 and Vertical
- Mill duty
- Explosion proof
- Mining
- Variable speed
- High-efficiency AC
- Navy and Marine
- Traction equipment
- Wheel
- Custom designs
- Servo, Spindle, Arbor and Low-voltage DC

Motor & Generator Testing

- Full load testing thru 300 HP
- Run testing to 4,160 VAC / 500 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
- Dodge TXT & CST reducer repair
- Pumps—centrifugal/submersible/vacuum
- Gear motor, clutches, brakes
- Fans, blowers, heat exchangers
- Mechanical adjustable-speed drives
- Hydropulper
- Lathe up to 37" x 108"
- Pressing up to 150 tons
- Diamond burnishing
- 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



AC motor repair thru 10,000 HP



In-house servo motor repair



Storage of critical spare motors



Motor Circuit Evaluation (MCE)

IPS Philadelphia
3240 South 78th Street
Philadelphia, PA 19153

800.451.5718
215.365.1500
215.365.1530 (FAX)
www.ips.us

FIELD SERVICES

On-site Services

- Vibration and Modal analysis
- Motor Circuit Evaluation (MCE)
- Installation and commissioning
- Emergency and outage support
- Cryogenic "dry ice" cleaning
- Laser alignment and bearing current detection
- 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 field machining and profiling
- Stator and armature rewinding

Performance Improvement Services

- Maintenance assessments
- Preventive, 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



NEMA motors



Above NEMA motors



Spare stator coils up to 15 kV



Remanufactured field coils - edge and wire wound

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

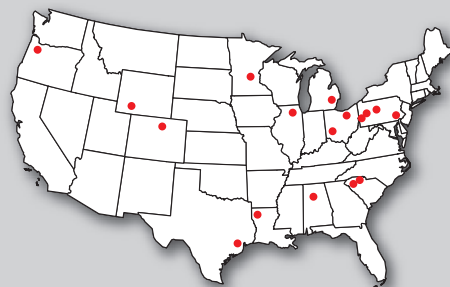
Dodge TXT Advanced Exchange & Remanufacture Program



- 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
- **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
- Operational Deflection Mode Shape (ODMS)
- Finite element analysis (FEA) software
- Motor efficiency analysis

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