

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
- **Hydro**—on-site generator rewind and maintenance
- Dedicated small motor (<690 VAC) repair center
- IntegraSeal™ B-stage Stator Coils up to 15 kV
- 8 Ft. VPI—polyester resin
- 50-ton crane capacity
- Dynamic balance stand up to 100,000 lbs.
- UL® certification
- AC & DC motor redesign and restacking

Specialty Motor Repair

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

Motor & Generator Testing

- Dynamometer Load Testing
- Run testing to 750 kVA to 4,160 VAC / 500 VDC
- Motor Circuit Evaluation (MCE)
- Computerized Core Loss
- Vibration Analysis (Spectral)
- Polarization Index Test
- Locked Rotor Testing
- Resistivity, Hi-Pot (AC & DC), Megger®, Surge Test

Authorized Warranty Repair

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

Mechanical Manufacturing & Repair

- Gear reducer rebuilding/Dodge TXT & CST repair
- Pumps—centrifugal, submersible, vacuum
- Refiner repair
- Gear motor, clutches, brakes
- Fans, blowers, heat exchangers
- Mechanical adjustable-speed drives
- Ship shafts and rudders
- Forward and aft bearing housings
- Hydraulic cylinder rods
- Roll and journal repair
- Leveler and back-up rolls
- Exit and entry rolls, print rolls, press rolls
- Mixer shafts, drive shafts
- Gearbox line boring
- Eccentric shafts
- Anvil roll repair
- Lamination and idler roll repair

Mechanical Capability

- Lathe: up to 76" x 564"
- Vertical boring mill: up to 84" Table
- Horizontal boring mill: up to 5" Bar, 60" x 100", w/rotary table
- Horizontal and Vertical press up to 600 tons
- Electro-Chemical brush plating
- Planer mill: 6' wide x 6' high x 26' bed
- Cylindrical grinding
- Vertical slotter
- Keyseating and line boring
- Diamond burnishing
- Sub-arc, MIG and 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



Testing to 750 kVA – 4,160 V, 500 VDC



Wind generator repair up to 3+MW



Extensive machining capabilities



On-site hydro generator rewinds

IPS Portland
2315 NW 21st Place
Portland, OR 97210

800.366.4951
503.226.4951
503.226.7340 (FAX)
www.ips.us

FIELD SERVICES

On-site Services

- Installation, commissioning and outage support
- Motor Circuit Evaluation (MCE)
- Cryogenic "dry ice" cleaning
- Vibration analysis
- Laser alignment and bearing current detection
- Thermography
- Oil analysis and lubrication programs
- Hydro-electric generator maintenance and rewinds
- AC & DC motor and generator repair
- Commutator and slip ring field machining and profiling
- Stator and armature rewinding
- Synchronous rotor diagnostics

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 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

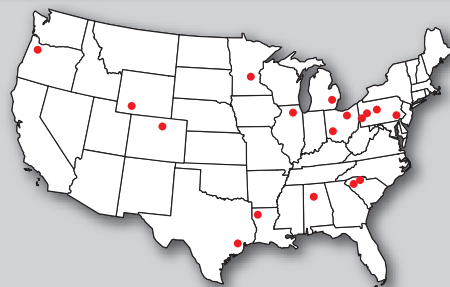
Dodge TXT Advanced Exchange & Remanufacture Program



- 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



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
- EnduraSeal® MV (up to 6.9 kV) with 5-year warranty
- 14 Ft. VPI—100% solids epoxy resin
- 145-ton lifting capacity
- Nuclear—Per 10CFR50 Appendix B and ANSI N45.2
- Mining—MSHA Certification motor repair

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

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



NEMA motors



Above NEMA motors



Spare stator coils up to 15 kV



Remanufactured field coils
- edge and wire wound

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