

**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 (<=600 VAC) repair center
- **Mining**—MSHA Certification motor repair
- **Hydro**—on-site generator rewind and maintenance
- 6 Ft. VPI—100% solids epoxy resin
- 30 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 rebabbiting
- 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
- Hermetic
- Submersible
- Vertical
- Mill duty
- Explosion proof
- Mining
- Variable speed
- High Efficiency AC
- Traction equipment
- Wheel Drive
- Servo, Spindle, Arbor, and Low-voltage DC

**Motor & Generator Testing**

- Full load testing thru 600 HP @ 1,800 RPM
- Run testing to 7,200 VAC / 600 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**

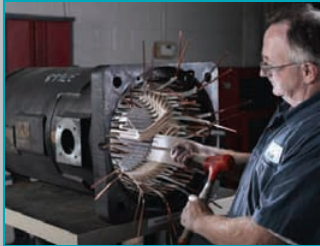
- Gear reducer rebuilding
- Dodge TXT and CST reducer repair
- Pulley repair and re-lagging
- Pumps—centrifugal/submersible/vacuum
- Gear motor, clutches, brakes
- Fans, blowers, heat exchangers
- Mechanical adjustable—speed drives
- Crusher repair—all types
- Centrifuge repair
- Belt magnet repair
- Vertical/horizontal mills
- Pressing up to 300 tons
- Diamond Burnishing
- MIG/TIG welding, flame spray metallizing
- 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     | • ATB Morley | • Baldor     |
| • Dodge   | • Reliance   | • Sicomotori |
| • Siemens | • WEG        |              |



Mining motor rewind



EnduraSeal® VPI rewind



On-site hydro generator rewinds



Motor Circuit Evaluation (MCE)

**IPS Rock Springs**  
839 Elk Street  
Rock Springs, WY 82901

**866.256.4798**  
307.362.6697  
307.382.2618 (FAX)  
[www.ips.us](http://www.ips.us)

**FIELD SERVICES**

**On-site Services**

- Installation, commissioning and outage support
- Motor Circuit Evaluation (MCE)
- Cryogenic "dry ice" cleaning
- Laser alignment & bearing current detection
- Vibration analysis
- Thermography
- Ultrasonic testing
- Oil analysis & 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



**Flender Motox Gear Motors and Units—Master Distributor**



- Helical, Bevel Helical and Parallel Shaft up to 177,000 in. lbs. / 200 HP
- Helical Worm up to 14,000 in. lbs. /20 HP
- Special drives for Agitator, Cooling Tower, Mixer and Extruder applications

**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

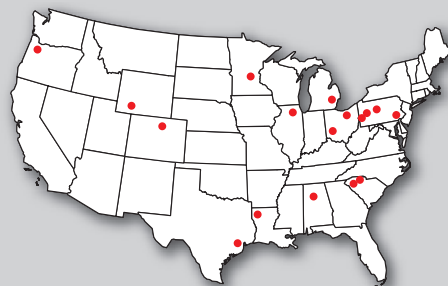
**Dodge TXT Advanced Exchange & Remanufacture Program**



- 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 | 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   |

**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

**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

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