

WE KEEP ELECTRIC MOTORS AND GENERATORS RUNNING

## REPAIR SERVICES

### Motor & Generator Repair

- AC motor repair thru 20,000 HP
- DC motor repair thru 10,000 HP
- Dedicated small motor (<=690 VAC) repair center
- **Wind**—generator repair up to 3+MW
- **Hydro**—on-site generator rewind and maintenance
- 7 Ft. VPI—100% solids epoxy resin
- 40-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 and Vertical
- Mill duty
- Explosion proof, Mining
- Variable speed
- High-efficiency AC
- Top Drive
- Traction equipment
- Wheel drive
- Servo, Spindle, Arbor, Low-voltage DC



EnduraSeal® VPI rewind



Load testing to 1,500 HP and 7,200 VAC / 700 VDC



Wind generator repair up to 3+MW



Motor Circuit Evaluation (MCE)

### Motor & Generator Testing

- Full load testing thru 1,500 HP
- Run testing to 7,200 VAC / 700 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 Spare Exchange Program
- Dodge CST reducer repair
- Conveyor 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
- Belt magnet repair
- Vertical/horizontal milling
- Sub-arc/MIG/TIG welding
- Flame spray metallizing
- 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

### Authorized Warranty Repair

- |           |              |               |
|-----------|--------------|---------------|
| • ABB     | • ATB Morley | • Baldor      |
| • Dodge   | • Reliance   | • Sicmemotori |
| • Siemens | • SKF        | • WEG         |

## FIELD SERVICES

### On-site Services

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

**IPS Denver**  
1020 S. Lipan Street  
Denver, CO 80223

**800.448.0899**  
303.935.4615  
303.935.0129 (FAX)  
[www.ips.us](http://www.ips.us)

WE KEEP ELECTRIC MOTORS AND GENERATORS RUNNING

PRODUCT SALES

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



Flender Motox Gear Motors and Units—Build Center/Master Stocking 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

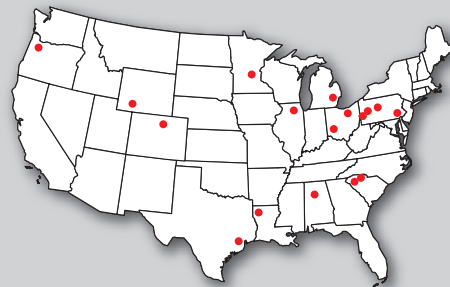
Dodge TXT Advanced Exchange & Remanufacture Program



- 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



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

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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