

WE KEEP ELECTRIC MOTORS AND GENERATORS RUNNING

REPAIR SERVICES

Motor & Generator Repair

- AC motor repair thru 15 kV or 39,000+ HP
- DC motor repair thru 10,000 HP
- Dedicated small motor (<=690 VAC) repair center
- 14 Ft. VPI—100% solids epoxy resin
- 50 ton crane capacity
- Dynamic balance stand up to 25,000 lbs.
- UL® certification
- CSA® certification
- Stator and rotor restacking
- AC and DC motor redesign
- Pick up and delivery service

Motor & Generator Rewind Technologies

- Premium VPI Insulation Systems
 - MegaSeal™ HV (up to 15 kV) with 5-year warranty
 - EnduraSeal® MV (up to 6.9 kV) with 5-year warranty
- Standard VPI rewind with 1-year warranty
- IntegraSeal™ B-stage Stator Coils up to 15 kV

Specialty Motor Repair

- Wound-rotor AC
- Motor/Generator sets
- AC generator rewinds
- Hermetic
- Submersible
- Mill duty
- Explosion proof
- Variable speed
- High-efficiency AC
- Custom designs
- Servo, Spindle, Arbor
- Low-voltage DC

Motor & Generator Testing

- Full load testing thru 4,500 HP
- No-load testing thru 37,500 HP
- Run testing to 15,000 VAC / 700 VDC
- Motor Circuit Evaluation (MCE)
- Doble and Partial Discharge
- IEEE 429 Water Immersion
- IEEE 1043 Voltage Endurance
- Computerized Core Loss up to 500 kVA
- Vibration Analysis
- Thermography
- Polarization Index Test
- Resistivity, Hi-Pot (AC & DC), Megger®, Surge test

Mechanical Repair

- Gear reducer rebuilding
- Dodge TXT and CST reducer repair
- Pumps-centrifugal/submersible/vacuum
- Gear motor, clutches, brakes
- Fans, blowers, heat exchangers
- Mechanical adjustable-speed drives
- Vertical/horizontal milling
- Pressing up to 600 tons
- 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 | • Toshiba | • WEG |



Previous VPI Insulation Systems:
MegaSeal™ and EnduraSeal®



14' VPI Tank



Testing up to 37,500 HP
and 15 kV / 700 VDC



Extensive On-Site Field Services

IPS Houston

1500 East Main Street
La Porte, TX 77571

800.221.3698

281.471.4611

281.471.3120 (FAX)

www.ips.us

FIELD SERVICES

On-site Services

- Installation and commissioning
- Synchronous rotor diagnostics
- Filter replacements
- Emergency and outage support
- Motor Circuit Evaluation (MCE)
- Doble and partial discharge testing
- Cryogenic "dry ice" cleaning
- Vibration and Modal analysis
- Laser alignment and bearing current detection
- Thermography and Ultrasonic testing
- Oil analysis and lubrication programs
- 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
- Disaster assessment/recovery programs
- 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

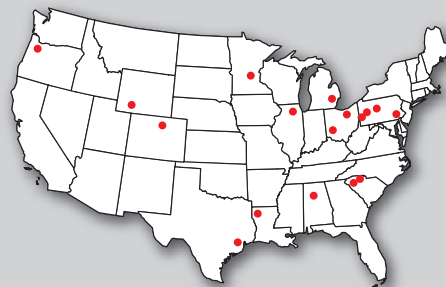
Dodge TXT Advanced Exchange & Remanufacture Program



- 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



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
- 145 ton lifting capacity
- Dynamic balance stand up to 100,000 lbs.
- Lathe: up to 76" x 564" and 126" x 384"
- Vertical boring mill: up to 84" Table
- Horizontal boring mill: up to 72" x 100"
- Planer mill: 6' wide x 6' high x 26' bed
- **Nuclear**—Safety & contaminated services available
- **Wind**—Up to 3+MW generator repair & uptower service
- **Mining**—MSHA Certification motor repair
- **Hydro**—On-site generator rewind and maintenance

Motor & Generator Testing

- Run testing to 1,000 VDC
- EL CID testing
- TVA Corona Probe
- Operational Deflection Mode Shape (ODMS)
- Finite Element Analysis (FEA) software
- Motor efficiency testing



NEMA motors



Above NEMA motors



Spare stator coils up to 15 kV



Remanufactured field coils
- edge and wire wound

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