

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
- 8 ft. VPI—100% solids epoxy 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

Motor & Generator Rewind Technologies

- "Global VPI" Stator Rewinds
 - PowerLok™ up to 7.2 kV with 1-year warranty
 - PowerSeal™ up to 7.2 kV with 5-year warranty
 - MegaSeal™ up to 15 kV with 5-year warranty
- "B-Stage" Resin-Rich Stator Coils
 - IntegraCoil™ up to 15 kV with 1-year warranty
 - HydroCoil™ up to 15 kV for hydro generators

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

Machining Capabilities

- Lathe—up to 76" x 564"
- Vertical boring mill—up to 84" Table
- Horizontal boring mill—up to 5" Bar, 60" x 100"
- Horizontal and Vertical press—zAup to 600 tons
- Electro-Chemical brush plating
- 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
- Dodge
- Siemens
- ATB Morley
- Reliance
- WEG
- Baldor
- Sicomotori



Testing to 750 kVA - 4,160 V, 500 VDC



Wind generator repair up to 3+MW



Extensive machining capabilities



On-site hydro generator rewinds

Portland Service Center

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, Thermography
- Laser alignment and bearing current detection
- 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
- 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)—IntegraCoil™ 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



NEMA motors



Above NEMA motors



Spare stator coils up to 15 kV



Remanufactured field coils
- edge and wire wound

NORTH AMERICAN COVERAGE



UNITED STATES

- | | |
|--------------------|------------------|
| Beaumont, TX | Evansville, IN |
| Birmingham, AL | Folcroft, PA |
| Charleston, SC | Greenville, SC |
| Chicago, IL | Houston, TX |
| Cincinnati, OH | Indiana, PA |
| Cleveland, OH | Lake Benton, MN |
| Clifton, NJ | Litchfield, MN |
| Corpus Christi, TX | Meridian, MS |
| Denver, CO | Philadelphia, PA |
| Des Moines, IA | Portland, OR |
| Detroit, MI | Rock Hill, SC |
| Dothan, AL | Shreveport, LA |
| Erie, PA | Sweetwater, TX |

CANADA

- Regina, SK
- Saskatoon, SK
- Winnipeg, MB

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