**Power Generation**
- Fossil—Pump, Compressor, Fan, Coal Handling
- Hydro—On-site generator rewind and maintenance
- Nuclear—Per 10CFR50 Appendix B and ANSI N45.2
- Wind—Up to 3+MW generator repair and uptower service

**Oil & Gas**
- Upstream—Land and offshore drilling
- Midstream—Pipeline compressors and pumps
- Downstream—Refineries and chemical plants

**Paper/Lumber/Wood Products**
- Refiner, pump and blower motor repair
- Mill drive motor repair
- Sawmill and Chipper motor repair

**Metal/Steel**
- AC & DC main drive motor repair
- Mill Duty motor repair
- Annealing and Table motor repair
- Large armatures up to 145 tons

**Underground Mining**
- MSHA Certification motor repair
- Wheel Drive and Traction equipment
- Large gearbox repair, including Dodge CST

**General Industry**
- Aggregate and Cement
- Food and Beverage
- Marine

**Motor & Generator Repair**
- In-shop capabilities
  - AC up to 15,000 VAC or 80,000 HP
  - DC up to 1,000 VDC or 10,000 HP
- On-site capabilities
  - AC up to 15,000 VAC or 80,000+ HP
  - DC up to 1,000 VDC or 10,000+ HP
  - 14 ft. VPI—100% epoxy resin
  - 145-ton lifting capacity
  - Dynamic balance stand up to 80,000 lbs.
  - UL® and CSA® certification
  - AC & DC motor redesign

**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

**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
- PMDA Motor Circuit Evaluation (MCE)
- Doble® and Partial Discharge
- IEEE 1776-2008 Water Immersion
- IEEE 1043 Voltage Endurance
- EL CID Test
- Computer Core Loss Test (500 kVA up to 30,000 HP)
- Vibration and Modal Analysis
- Thermography
- Resistivity, Hi-Pot (AC & DC) Megger®, Surge test
- ABB Life Expectancy Analysis Program (LEAP)

**Authorized Warranty Repair**
- ABB
- ATB
- Breuer
- Baldor
- Siemens
- Dodge
- ELIN
- KATO
- Toshiba
- Reliance
- WEG

**Electronic Board Repair**
- Circuit boards—all manufacturers
- AC & DC Drives, operator interfaces, servo controls
- PLCs, I/O modules, power supplies, instruments

**Mechanical Repair**
- Gear reducers, Dodge TXT and CST repair
- Pumps—centrifugal/submersible/vacuum
- Compressors
- Crushers
- Gear motor, clutches, brakes
- Fans, blowers, heat exchangers
- Ship shafts and rudders

**Machining Capability**
- 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”
- CNC precision machined parts
- Horizontal press—up to 600 tons
- Vertical press—up to 400 tons
- Cylindrical grinding
- Vertical slitter, Keyseating
- Diamond burnishing
- Flame spray metallizing
- Welding—Sub-Arc/MIG/TIG
- Bearing rebabbitting

**Service Locations**
- **UNITED STATES**
  - Beaumont, TX 888-868-9475
  - Birmingham, AL 800-978-2212
  - Charleston, SC 843-747-7644
  - Chicago, IL 800-978-4559
  - Cincinnati, OH 800-998-8447
  - Cleveland, OH 800-433-7801
  - Corpus Christi, TX 800-221-3698
  - Denver, CO 800-448-0899
  - Detroit, MI 800-992-9466
  - Des Moines, IA 515-608-8215
  - Dothan, AL 334-699-8080
  - Erie, PA 724-479-9066
  - Evansville, IN 800-998-8447
  - Folcroft, PA 484-496-4848
  - Houston, TX 800-221-3698
  - Indiana, PA 800-537-0097
  - Lake Benton, MN 507-368-4015
  - Litchfield, MN 888-694-6200
  - Philadelphia, PA 800-451-5718
  - Portland, OR 800-366-4951
  - Rock Hill, SC 800-868-3702
  - Shreveport, LA 800-366-6030
  - Sulphur, LA 409-833-9477
  - Sweetwater, TX 325-933-4274
  - Washington, PA 800-441-2553
- **CANADA**
  - Regina, SK 306-586-0000
  - Saskatoon, SK 306-651-0400
  - Winnipeg, MB 204-237-6066

**WE KEEP ELECTRIC MOTORS AND GENERATORS RUNNING**

**LOCATIONS**

**HEADQUARTERS**
Greenville, SC 864-451-5600

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FIELD SERVICES

Predictive Maintenance
- Vibration and modal analysis
- PiMA Motor Circuit Evaluation (MCE)
- Doble® testing
- Partial discharge testing
- Operational Deflection Mode Shape (ODMS)
- Finite Element Analysis (FEA) software
- Synchronous rotor diagnostics
- Current analysis trending
- Thermography
- Ultrasonic testing
- Oil analysis
- Motor efficiency testing

Motor Storage Programs
- 300,000+ sq. ft. of warehouses
- Temperature controlled
- Humidity controlled
- Monthly shaft rotation
- Windings meggered quarterly
- 24/7 on-call service
- Full documentation

On-site Commissioning and Repair
- Equipment installation/removal
- Emergency and outage support
- Mechanical machining and repair
- AC & DC motor and generator repair
- Stator and armature rewinding

Preventive Maintenance
- Precision laser alignment
- Cryogenic "dry ice" cleaning
- On-site balancing
- Commutator and slip ring service
- Filter replacements
- Lubrication programs
- Equipment inspections

Performance Improvement Services
- Disaster, contingency and recovery programs
- Maintenance assessments and programs
- Reliability engineering
- Training programs

PRODUCT SALES

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

- ABB
- BALDOR-RELUCTANT
- BROOK CROMPTON
- ELIN Motors
- ELETTRO MOLTO
- G & R International Electric Motors
- HYDRAULIC CONTROLS
- JAYCO
- LEESON
- MARATHON MOTORS
- MOTION
- NORD
- PEC
- REED
- SCHNEIDERS
- Siemens
- SHAW SHERIDAN
- TECO Westinghouse
- TOSHIBA
- VEXT
- WEG

Please contact your IPS regional service center for brand availability in your area.

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.)

Unit Exchange & Remanufacture Programs
- Wind Generators—multiple brands and sizes
- Dodge TXT Reducers—Sizes 3 thru 15
- Underground Mining Motors
- Mill Duty and Base Fan Motors

CNC Precision Machined Parts
- Shafts up to 23” diameter and 80” long
- Milling up to 20” x 40” plate—Flats and Hex parts
- Hole drilling and tapping
- Keyway machining
- Digital Bore gauges
- 3D CADCAM