

**WE KEEP ELECTRIC MOTORS AND GENERATORS RUNNING**

**REPAIR SERVICES**

**Motor & Generator Repair**

- AC motor repair thru 3,500 HP
- DC motor repair thru 3,000 HP
- VPI—100% solids epoxy resin
- 10-ton crane capacity
- Dynamic balance stand up to 22,500 lbs.
- CSA® certification
- Stator and rotor restacking
- Commutator profiling and resurfacing
- AC & DC motor redesign
- Pick up and delivery service

**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**

- No load testing to 5,000 HP
- Run testing to 4,100 VAC / 500 VDC
- Slotted test pad (5' x 9')
- Core Loss Testing
- Vibration Analysis
- Thermography
- Polarization Index Test
- Rotor Cage Integrity Test
- Resistivity, Hi-Pot (AC & DC), Megger®, Surge test

**Authorized Warranty Repair**

- |                |              |            |           |
|----------------|--------------|------------|-----------|
| • ABB          | • ATB Morley | • Baldor   | • Dodge   |
| • Elin Motoren | • Leeson     | • Reliance | • Siemens |
| • Toshiba      | • US Motors  | • WEG      |           |

**Design & Build Custom Panels**

- CSA Approved Panels built in-house
- Soft Starters
- Variable Frequency Drives
- Controls and Low Voltage Products
- Manual Motor Starters
- Cabinets—Custom and NEMA 1, 3R, 4, 4X or 12

**Machining Capabilities**

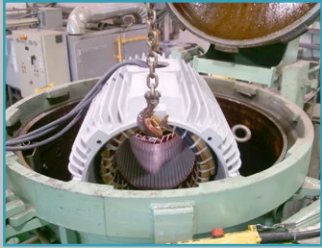
- Lathes—up to 56" x 156"
- Milling—Vertical and Horizontal
- Welding—MIG/TIG
- Flame Spray Metallizing
- Brush Electroplating
- Pressing—up to 300 tons
- Radial drill press

**Mechanical Repair**

- Gearbox and Reducers
- Dodge TXT & CST reducer repair
- Pumps—centrifugal/submersible/vacuum
- Gear motor, clutches, brakes
- Fans, Blowers, Hoists
- Mechanical adjustable-speed drives
- Crusher repair—all types
- Parts manufacturing (shafts, bases, housings)

**Electronic Repair**

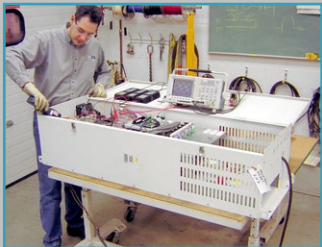
- Circuit boards—all manufacturers
- AC & DC drives, operator interfaces, servo controls
- PLC's, I/O modules, power supplies, instruments
- Transformers, switchgear, breakers, and UPS
- Servos and Specialty Motors
- Coils and Magnets



VPI — 100% solids epoxy resin



Balancing up to 22,500 lbs.



Design and Build Custom Panels



Dedicated Field Service Technicians

**FIELD SERVICES**

**Predictive Maintenance**

- Vibration analysis
- Thermography
- Ultrasonic testing
- Oil analysis and lubrication programs
- Synchronous rotor diagnostics
- Current analysis trending
- Motor efficiency testing

**On-site Commissioning and Repair**

- Installation and commissioning
- Emergency and outage support
- Mechanical balancing, machining and repair
- AC & DC motor and generator repair
- Stator and armature rewinding
- Drive and soft start

**Preventive Maintenance**

- Precision laser alignment
- Cryogenic "dry ice" cleaning
- Commutator and slip ring service
- Filter replacements
- Lubrication programs
- Equipment inspections
- VFD cleaning, testing and component verification
- Cable testing and locating

**Performance Improvement Services**

- Disaster, contingency and recovery programs
- Maintenance assessments and programs
- Reliability engineering
- Training programs for new drives and controls

**Saskatoon Distribution Center**  
715B-46th Street West  
Saskatoon, SK S7L 6A1

**306.651.0400**  
306.651.0498 (FAX)  
[www.ips.ca](http://www.ips.ca)

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## PRODUCT SALES

### AC & DC Motors, Controls and Spare Parts



NEMA and Above NEMA motors



### AC & DC Drives



Variable Frequency Drives (VFD)



- HVAC, Industrial, Micro, DC and Servo
- Drive Accessories—Dynamic Braking, Line Filters, Line Reactors
- Transformers, Harmonic Mitigation

### Custom Control Panels



- CSA Panels—NEMA 1, 3R, 4, 4X or 12
- Manual Motor Starters and Soft Starters
- Contactors, Relays, Timers, Disconnects, Switches, Circuit breakers, Capacitors...

### Power Quality Devices



Custom Control Panels



- Uninterrupted Power Supply
- Low Voltage Capacitors & Capacitor Banks
- Power Quality Filters

### Phase Converters



- Static and rotary phase converters
- cUL labeled
- Variety of enclosure options

### AC & DC—Coils and Armatures



Hydro Generator Stator Coils



- AC stator coils (up to 15 kV)
- AC rotating fields—edge and wire wound
- DC armature and field coils
- Specialty coils (brake, transformer, etc.)

### CNC Precision Machined Parts



- Shafts up to 23" diameter and 80" long
- Milling to 20" x 40" plate—Flat/Hex parts
- Hole drilling and tapping
- 3D CAD/CAM

## NORTH AMERICAN COVERAGE

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