

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 and 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

Winnipeg Service Center

MAIN SHOP
633 Tyne Avenue
Winnipeg, MB R2L 1J5

SECOND SHOP
572 McTavish Street
Winnipeg, MB R2J 2W5

204.237.6066
204.233.5306 (FAX)

www.ips.ca

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

WE KEEP ELECTRIC MOTORS AND GENERATORS RUNNING

PRODUCT SALES

AC & DC Motors, Controls and Spare Parts



NEMA and Above NEMA motors



AC & DC Drives



- 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



- 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



- 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



Variable Frequency Drives (VFD)



Custom Control Panels



Hydro Generator Stator Coils

NORTH AMERICAN COVERAGE

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Saskatoon, SK
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