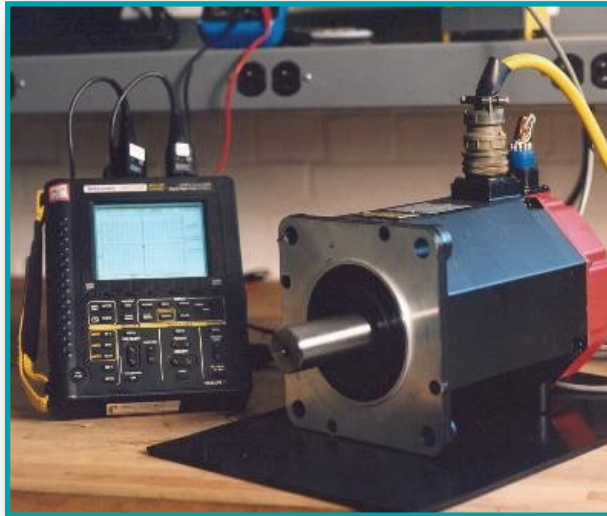


SERVO MOTOR SERVICES

IPS expands its single-source capabilities

Reliability. Delivered.



IPS offers trained specialists and a state-of-the-art repair lab for servo and spindle motors, boards and drives.

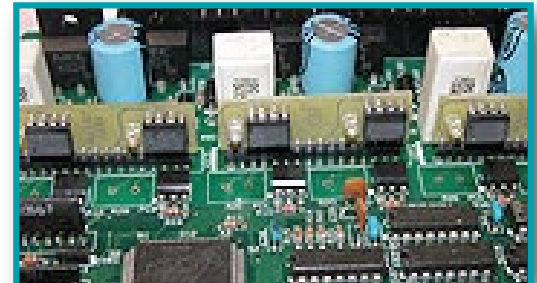
IPS Electro-Mec now offers repair services and product sales for servo and spindle motors, boards and drives. Our services include complete testing and documentation, for the quality assurance required on active robotics and remote welding lines.



If you're unhappy with OEM service and turn times, talk to us. We

offer the speed and convenience of single-source capabilities, in a dedicated service facility with a proven record of reducing operating costs and improving customers' return on investment.

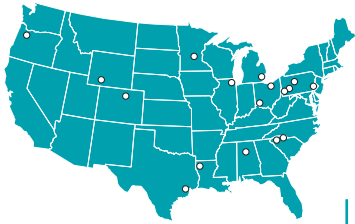
Make sure your servo and spindle motors, boards and drives deliver the same reliability you expect from your IPS-serviced motors, generators and mechanical components. For more information, contact IPS Electro-Mec at 800.537.0097 or visit www.integratedps.com.



- *High-quality, documented repairs for servo and spindle motors, boards and drives*
- *Testing for most encoder and resolver-based closed-loop servo and spindle motors*
- *Exchange services on servo motors*
- *Magnet recharging*
- *Stator and armature rewinds*
- *Digital, serial and incremental encoder testing including Indramat, FANUC, Allen Bradley and Stegmann*
- *High-speed dynamic balancing and vibration testing*
- *Full-service machine shop*
- *Fast turn times, competitive pricing and local, responsive customer service*

Additional IPS Network Capabilities

COAST-TO-COAST COVERAGE



Birmingham, AL

800.978.2212

Chicago, IL

800.978.4559

Cincinnati, OH

800.998.8447

Cleveland, OH

800.433.7801

Denver, CO

800.448.0899

Detroit, MI

800.992.9466

Glassport, PA

800.394.7366

Houston, TX

800.221.3698

Indiana, PA

800.537.0097

Litchfield, MN

888.694.6200

Philadelphia, PA

800.451.5718

Portland, OR

800.366.4951

Rock Hill, SC

800.868.3702

Rock Springs, WY

866.256.4798

Shreveport, LA

800.366.6030

Washington, PA

800.441.2553



www.integratedps.com

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REPAIR SERVICES

Motor and 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 > 15,000 VAC or 80,000 HP
 - DC > 1,000 VDC or 10,000 HP
- 14 ft. VPI—100% solids epoxy resin
- 145-ton lifting capacity
- Dynamic balance stand up to 100,000 lbs.
- UL® and CSA® certification
- Stator and rotor restacking
- AC and DC motor redesign

Rewind Technologies

- VPI Insulation Systems
 - MegaSeal™ HV (up to 15 kV) with 5-year warranty
 - EnduraSeal® MV (up to 6.6 kV) with 5-year warranty
- IntegraSeal™ B-stage stator coils up to 15 kV

Motor and Generator Testing

- Full load testing up to 4,500 HP
- No load testing up to 37,500 HP
- Run testing up to 15,000 VAC/1,000 VDC
- Motor Circuit Evaluation (MCE)
- Doble and Partial Discharge
- IEEE 429 Water Immersion
- IEEE 1043 Voltage Endurance
- Computerized Core Loss up to 500kVA
- Electromagnetic Core Imperfection Detection (EL CID)
- Vibration analysis (Spectral)
- Thermography
- Polarization Index Test
- Resistivity, Hi-Pot (AC & DC), Meggar, Surge test

Authorized Warranty Repair

- ABB
- Baldor/Dodge/Reliance
- Sicomotori
- Siemens
- WEG

FIELD SERVICES

Predictive Maintenance

- Vibration and modal analysis
- Motor Circuit Evaluation (MCE)
- Doble testing
- Partial discharge testing
- Electromagnetic Core Imperfection Detection (EL CID)
- Operational Deflection Mode Shape (ODMS)
- Finite Element Analysis (FEA) software
- Synchronous rotor diagnostics
- Current analysis trending
- Thermography
- Ultrasonic testing
- Oil analysis

Preventive Maintenance

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

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

PRODUCT SALES

CNC Precision Machined Parts

- Shafts up to 16" dia. and 60" long
- Milling up to 20" x 40" plate
- Hole drilling and tapping
- Flats and hex parts milling
- Keyways machining
- Cutting multiple parts in sizes up to 16" dia.
- Digital bore gauges
- 3D CAD/CAM

AC & DC Motors—NEMA, Above NEMA

- ABB
- Baldor/Dodge/Reliance
- General Electric
- Marathon Electric
- Siemens
- TECO Westinghouse
- U.S. Electric
- WEG

AC/DC—Coils and Armatures

- AC stator coils
 - LV, MV and HV (up to 15 kV)
 - B-stage hard coils, sealed coil systems and VPI
- 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, Pole Face Bars
- Specialty coils (brake, transformer, etc.)