



MOTOR REPAIR SERVICES

RCG USA provides high quality and cost-effective Motor Repair Services.
Electric Motor, Winch Motor, Marine Generator, Blowers, Vacuum Pumps, ...
1 to 3 speeds – 1 KW up to 1,000 KW.

Benefits of Electric Motor Rewinding:

- **COST EFFECTIVE SOLUTION:** IN MANY CASES, REWINDING CAN SAVE UP TO 50% COMPARED WITH THE COST OF BUYING A NEW MOTOR. THIS CAN BE ESPECIALLY BENEFICIAL FOR LARGER MOTORS THAT ARE MORE EXPENSIVE TO REPLACE.
- **QUICK TURNAROUND TIME:** WITH OUR EXPERTISE, WE OFFER FAST AND EFFICIENT MOTOR REWINDING SERVICES SO YOU CAN GET YOUR MOTOR BACK UP AND RUNNING AS QUICKLY AS POSSIBLE.
- **HIGH QUALITY RESULTS:** OUR TEAM OF TECHNICIANS USES STATE-OF-THE-ART EQUIPMENT TO ENSURE THAT YOUR MOTOR IS REWOUND TO THE HIGHEST QUALITY STANDARDS. WE ARE COMMITTED TO ENSURING THAT YOUR MOTOR PERFORMS LIKE NEW AFTER IT HAS BEEN REWOUND.
- **ENERGY EFFICIENCY:** REWINDING YOUR ELECTRIC MOTOR CAN ALSO HELP TO IMPROVE ITS ENERGY EFFICIENCY. A MOTOR THAT HAS BEEN REWOUND WITH HIGH-QUALITY WIRE AND PRECISION WINDING TECHNIQUES CAN OPERATE MORE EFFICIENTLY, WHICH CAN SAVE YOU MONEY ON ENERGY COSTS OVER TIME.
- **ENVIRONMENTALLY FRIENDLY:** REWINDING YOUR ELECTRIC MOTOR IS ALSO AN ENVIRONMENTALLY FRIENDLY SOLUTION. BY CHOOSING TO REWIND YOUR MOTOR RATHER THAN REPLACING IT, YOU ARE HELPING TO REDUCE WASTE AND CONSERVE RESOURCES.

3381 NW 168th Street, Miami Gardens, FL 33056
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MOTOR REPAIR SERVICES

Motor Repair – Scope of Work:

- RECEIVE ASSEMBLED MOTOR AT RCG MIAMI WAREHOUSE.
- PERFORM A VISUAL INSPECTION OF MOTOR COMPONENTS FOR THE PRESENCE OF CONTAMINATION BY DUST, DIRT, MOISTURE, OIL, AND OTHER FOREIGN MATTER.
- DISASSEMBLE MOTOR TO DETERMINE THE ORIGIN OF FAILURE, SUCH AS LEAKING SEALS, LOOSE MECHANICAL COMPONENTS OR ANY UNUSUAL CONDITIONS PRIOR TO THE START OF CLEANING.
- NOTE ALL ABNORMAL CONDITIONS ON THE STATOR, ROTOR AND WINDINGS.
- CAREFULLY EXAMINE THE INTERIOR OF THE MOTOR FOR LOOSE OBJECTS SUCH AS, NUTS AND BOLTS.
- REMOVE ALL SUCH ITEMS.
- INSPECT ALL ELECTRICAL CONNECTIONS FOR TIGHTNESS.
- CHECK ALL WEDGES, BANDS, AND SOLDERED CONNECTIONS AND CORRECT ANY MINOR DEFICIENCIES.
- CHECK FOR EVIDENCE OF OVERHEATING, BOTH GENERAL AND LOCALIZED.
- IDENTIFY ANY MECHANICAL DEFICIENCIES.
- RECORD ALL FINDINGS, INCLUDING THE TYPES OF CONTAMINANTS (OIL, WATER, CARBON, DIRT, ETC.) FOUND.
- CLEAN & DIMENSIONALLY CHECK ALL BEARINGS, BEARING JOURNALS, HOUSING, SEAL SURFACE, CONTROL CABLE, ETC...
- PERFORM CORE LOSS TEST OF STATOR AND ROTOR LAMINATIONS IN ORDER TO DETERMINE IF CORE LAMINATIONS MAINTAIN THE ORIGINAL DESIGN EFFICIENCY.
- PERFORM A COMPLETE ELECTRICAL EVALUATION OF BOTH STATOR AND ROTOR (PI, IR TO GROUND, PHASE COMPARISON TEST, PHASE RESISTANCE, WINDING RTD'S, HEATERS).
- CLEAN ALL MISCELLANEOUS COMPONENTS LIKE BELLS, BEARING CAPS, FANS, TERMINAL BOX, COUPLING, SHROUDS. ETC...
- SAND BLAST ALL PARTS AND MISCELLANEOUS COMPONENT AS DEEMED NECESSARY.
- REWIND STATOR WITH NEW CLASS "F" INSULATION.
- VACUUM PRESSURE IMPREGNATE (VPI) WINDINGS IN A 100% EPOXY SOLVENT-FREE RESIN.
- FURNISH AND INSTALL NEW ANTIFRICTION BEARING.
- DYNAMIC BALANCE ROTOR IN ACCORDANCE WITH ISO 1940 2.5 STANDARDS.
- RE-ASSEMBLE MOTOR, PAINT, TEST AND RECORD ALL DATA.

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Example of Motor Before and After Repair

Before Repair



After Repair



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ELECTRICAL REWINDING



CLEANING & PAINTING



BEARING REPLACEMENT

