



# MOTOR REPAIR SERVICES

RCG-USA provide a high quality and cost-effective Motors Repair Services  
Any kind of Motors (Pump, Winch...)- 1 to up to 3 speeds – 1 KW up to 300 KW

## 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 CALBE, 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 BLASTING 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 LESS 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

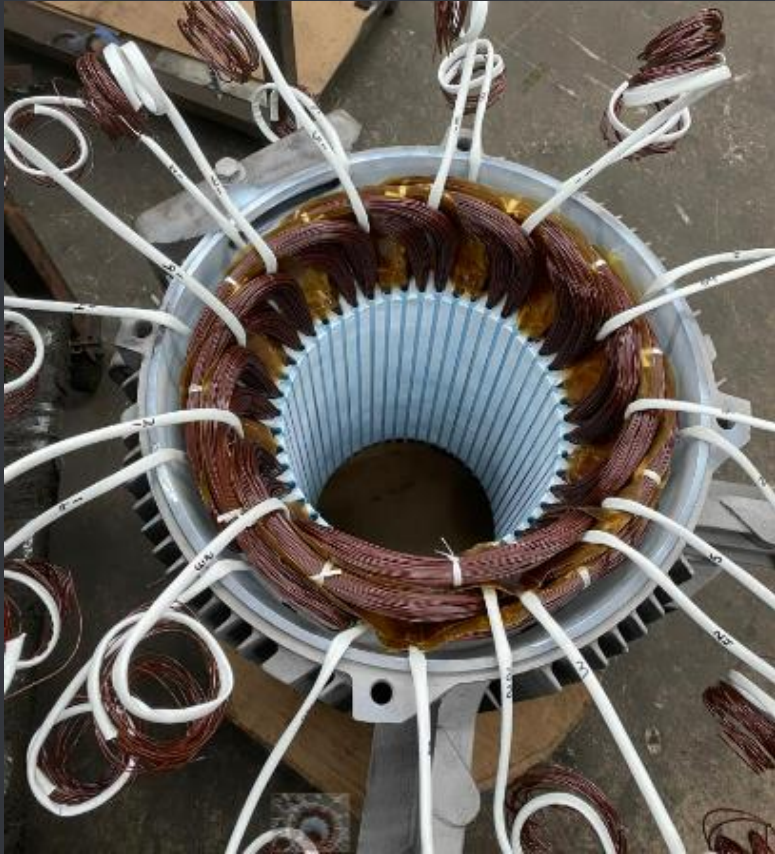


AFTER Repair





# ELECTRICAL REWINDING





# CLEANING & PAINTING





# BEARING REPLACEMENT

