



Gulf Electroquip specializes in new, remanufactured and repaired AC and DC motors and generators. All our engineering is performed at our facility making sure that your exact specifications are met. We manage one of the largest motor and generator parts inventories with distribution support in the country.

INDUSTRIES SERVED

- Cement
- Compression
- Dredging
- Drilling
- Marine
- Mining
- Petrochemical
- Plastics
- Recycling
- Rubber
- Transportation

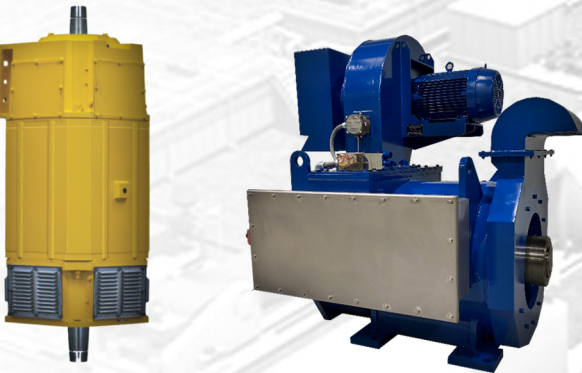


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# SINGLE SOURCE FOR NORTH AMERICA

## PRODUCT AND SERVICE CAPABILITIES

COMPLETE MOTOR & GENERATOR REPAIR CENTER | ONE OF THE LARGEST HEAVY MOTOR AND GENERATOR PARTS DISTRIBUTION SYSTEMS | COMPLETE MOTOR AND GENERATOR DIAGNOSTIC AND TESTING SERVICES | QUALITY BUILT NEW 400 HP-1500 HP SUPER DUTY MOTORS



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# GULF ELECTROQUIP REPAIRS & MANUFACTURES ELECTRIC MOTORS & GENERATORS

## REPAIR CENTER

- Cleaning
- Baking
- Mechanical Inspection
- Electrical inspection
- Failure Analysis
- Mechanical Repair
- Replacement
  - Shafts - CNC Alloy
  - Bearings
  - Rotors
  - Stators
- Balancing
- Winding
  - Form Coils
  - Random Coils
  - Medium Voltage
  - AC Rotor Barring
  - AC Wound Rotor
  - AC Generator Rotor
  - DC Rotor
  - DC Fields
  - Coil Supply
  - Exciter Rotors
  - Exciter Stators
- Encapsulation:
  - VPI Class H
  - Dip Class H
- Enclosures
  - Repair/Replace
  - Fans
  - Covers
  - Junction Boxes
- Testing (see Test Lab)



Before After

## TECHNOLOGY



- Staff of Degreed Engineers:
- EE & ME
- Engineering Design
- Complete New Machines
  - Upgraded HP, Voltage, encl.
  - Specification
  - Certification
  - Troubleshooting
  - Vibration Analysis
  - Thermal Analysis
  - Training
  - Maintenance
  - Disaster Relief Planning
  - 3<sup>rd</sup> Party / Failure Analysis
- CAD/CAM
- 3D Design
  - FEA – Finite Element Analysis
  - AutoCAD to CNC Machine
- Customer Inventory
- Storage
- Emergency Spares
  - Climate Controlled
  - Maintained
  - Periodic Proof Testing
  - Complete Machines
  - Specialty Parts
  - On-site 300,000 Square Feet
  - 24 / 7 Access
- Vendor Managed Inventory
- Manuals
- Testing
- Consultation
- Safety

## IN HOUSE EQUIPMENT

- CNC Machining
- Shafts
  - Endbells
  - Seals
  - Parts
- CNC Milling
- Endbells
  - Rotor Bars
  - Frames
- CNC Cutting
- Laser
  - Plasma
- CNC Balancing
- Hard Bearing to 10,000 lbs.
  - Soft Bearing to 50,000 lbs.
- CNC Cleaning
- Cleaning Machine
  - Burn Out Oven
- CNC Turn & Undercut DC Arm
- CNC Electrical Testing
- Core Loss
  - Resistance, Inductance
  - High Potential/Surge Testing
- CNC Test Lab (see test)
- Manual Machining
- 10 Lathes (s, m, l)
  - 3 Vertical mills (m, l)
  - 3 Horizontal mills (m, l)
- 2 Baking Ovens
- Water Stripping of Windings



## Vacuum Pressure Impregnation

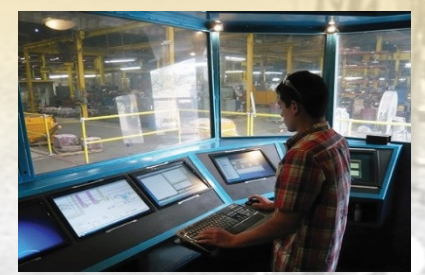
- Metal Fabrication
- Heavy Steel
  - Sheet Metal
  - Rolling
  - Tig, Mig & Stick Welding
  - Custom Junction Boxes
  - Custom Components



## TEST LAB

- AC and DC Equipment:
- Motors
  - Generators
  - Drives
  - Transformers
  - Drive Lines (String Testing)
- Static and No Load
- AC to 30,000HP/ 25,000kw
  - DC to 20,000HP/ 15,000kw
- Full Load Testing
- AC to 6000 HP
  - DC to 6500 HP
- Dynamometer Load
- to 25,000 ft./lbs.
  - to 5,000 RPM
- Orientation
- Horizontal
  - Vertical
- Computer Recording
- Voltages
  - Currents
  - HP/KW
  - Efficiency
  - Speed

- Vibration
  - Spectrum
  - RTDs
  - Thermal Imaging
- Sinusoidal and VFD
- Witness
- Worldwide Remote Via Internet
  - Client
  - 3rd Party Certification
- Static Testing
- Surge
  - High Potential
  - Polarization Index
  - DLRO
  - Bar to Bar
  - Dimensional
- Regulatory | Certification



## PRODUCTS

- New, Repair & Remanufactured
1. Motors & Generators:
- AC Induction Motors
  - AC VFD Motors
  - AC Wound Rotor Motors
  - AC Induction Generator
  - AC Synchronous Motor
  - AC Synchronous Generator
  - DC Motors
  - DC Generators
- Power:
- AC: to 30,000+ HP/ 25,000+ KW
  - DC: to 10,000+ HP/ 7,000+ KW
- Voltages:
- AC: 100 - 13,800 V
  - DC: 100 - 1,000 VDC

- Speed:
- AC: to 7000 RPM
  - DC: to 3000 RPM
- Frequency:
- 50, 60 Hz and Variable
- Enclosure:
- Open to XP classification
- Orientation:
- Horizontal, Vertical & Tilt
- Bearings:
- Sleeve
  - Ball & Roller
  - Insulated Through High Capacity Vertical Thrust
- Shaft:
- Single, Double & Auxiliaries
  - High Alloy & Standard Steels
- Cooling:
- Air and Water Cooled
  - Self, Forced and Non-ventilated
- Seals:
- Standard Through High Spec
- Excitation:
- Brush and Brushless

2. Patented Cleaning Motor Blowers
- Filter-less Cleaning
  - Double Cycle
  - Quiet to OSHA
  - For Motors and Generators
  - Custom and OEM Designs
3. Junction Boxes
4. Quick Connects
5. Custom Spec Products
6. Parts In Stock

