

# MOTOR REPAIR & SERVICES



**Capabilities**



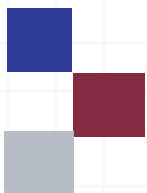
**Rewinding Service  
Additional Service**



**Certified**



**Fabrication**

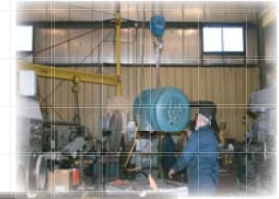


## Our Pledge to You

Dependability, reliability, and complete customer satisfaction is what you will receive when you have a motor serviced or repaired at Complete Industrial.

As a certified (EASA) motor repair facility for over fifty years, you can rest assured that our 20,000 sq. ft. facility is systematically designed for each step of the repair process. We are equipped with the most recent equipment and employ a highly advance team of technicians that have over seventy-five years of experience in the Motor Repair Industry.

As a customer, you will always be our first priority and that means that you can call our 24 hour emergency service anytime: you will be guaranteed an immediate phone call and a pick-up if necessary. If you are accustomed to receiving quality products and services at competitive prices, you should look no further than Complete Industrial.



## Capabilities

- Electric motor service repair for motors ranging 10,000 HP and weighing 20,000 pounds.
- State-of-the-art electric motor rewind department.
- Pollution Control Oven - 11 foot bake out oven and 16 foot pollution controlled burn out oven.
- On-site diagnostic services include Electric Motor Circuit Evaluation, Laser Alignment, Vibration Analysis, and Infrared Thermography.
- Dynamic balancing equipment.
- Testing - Ability to test run repaired motors at full rated nameplate voltage; including static,
- Dynamic rotor balancing.
- Computerized core loss test.
- Cryo Cleaning with CO2 - Allows for on-site cleaning of large electric motors by using CO2. CO2 removes dirt and grime from motor windings and laminations without damage to any of the components.
- Surge Testing, Meggar, AC/DC Hipot, PI
- Overhead crane/hoist sales, repair and inspection
- Up to 20,000 lbs and 3 cranes available



## Certifications

- Member of the EASA - Electrical Apparatus Service Association
- U.L. Certified for hazardous locations
- Certified Infrared thermographer on staff
- Electric Motor to IEEE, EASA, ANSI and API specifications



## Rewinding Services

- AC & DC Rewinding - up to 1,000 horsepower
- Stators & Rotors
- Armatures & Fields
- Brake & Holding Coils
- Form & Random Wound Units
- Core Loss Testing
- Baker Surge Testing
- DC Hi-Pot Testing
- Winding Analysis



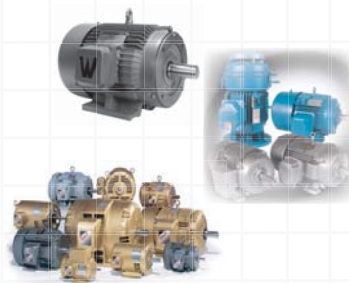
## Additional Services

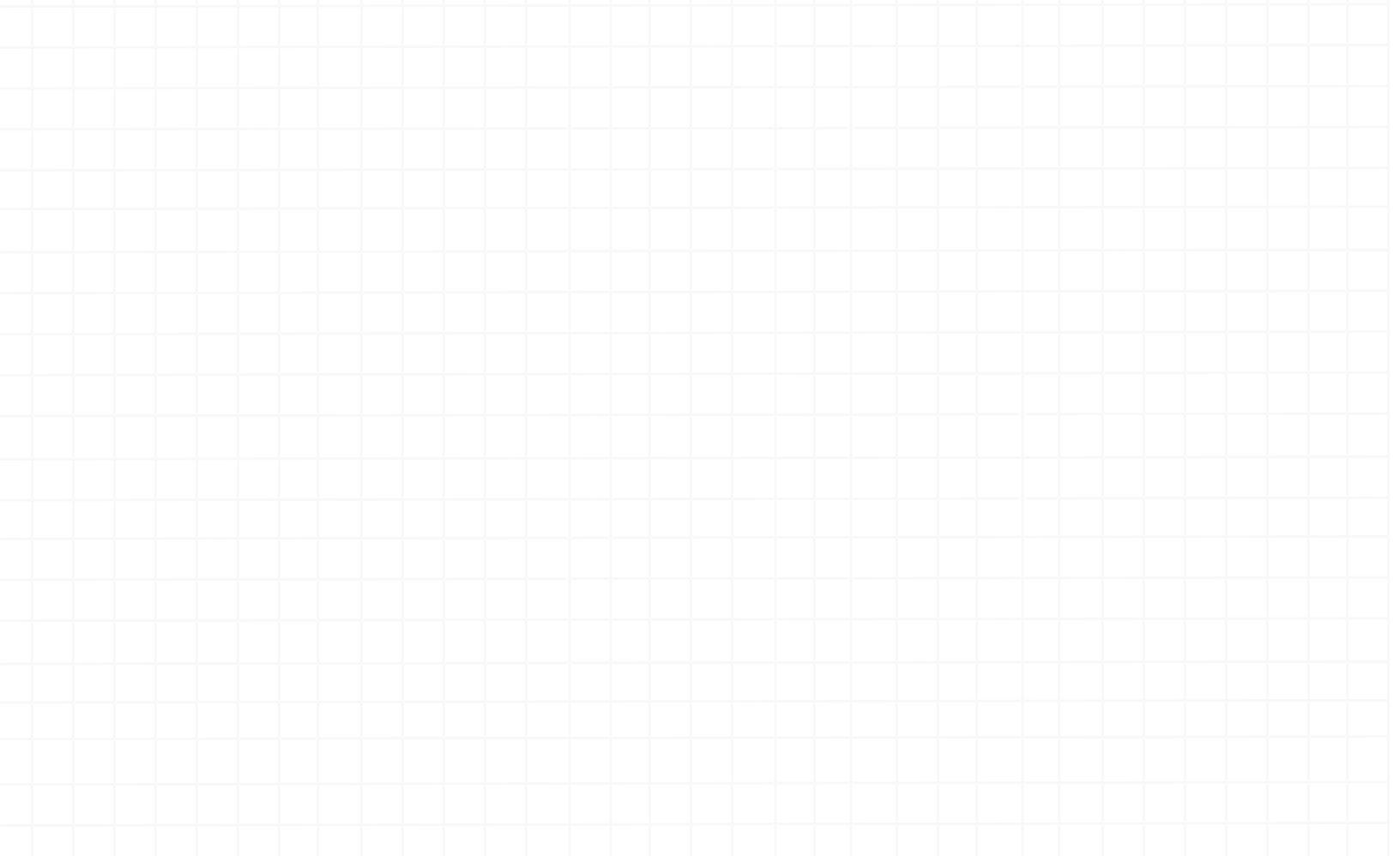
- Pump & Gear Box Repair
  - Re-Manufacturer New Shafts
- Variable Speed Drives
- Brake & Clutches
- Eddy Current Drives
- Gear Reducers
- Custom predictive/preventative maintenance
- Engineer Services
  - Voltage Changes
  - Horsepower Frequency Changes
  - Speed Changes
- Factory Authorized Warranty on most products



## Parts - In Stock - No Downtime

- Bearings
- Brushes
- Pumps
- Motors (Baldor, Siemens & WorldWide)
- Hoists
- Runway Conductors
- Spare Parts





# CHECKLIST TO DETERMINE MOTOR DAMAGE/SCOPE

## 1 TESTING



- Step up Transformer up to 12470 Volts
- Meggar

## 2 DISASSEMBLY



- Inspect Part
- Document Failure Points

## 3 CLEANING



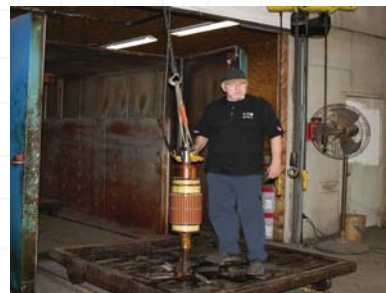
- Sandblasting
- High Pressure Steam Celaning
- Petroleum Parts Wash
- Cryogenic CO2 Ice Blasting

## 4 MACHINING



- Bore and Bush Endbells
- Shaft Straightening
- Shaft Rebuilding
- Welding
- Keyway Reconstruction
- Turn and Undercut Commutator

## 5 REWIND



- All Class H Rewinds
- Spike Resistant Inverter Rated Wire
- Double Dip and Bake Duty

## 6 RE-ASSEMBLY



- Grease According to Customer or Mfg. Specification
- Options Available

## 7 FINAL TESTING



- Vibration Analysis
- Test at Rated Voltage
- Painted After Test

## 8 SHIPPING



- Check-Out Sheet
- Invoice
- Experienced Delivery

**Customer Service/ Counter**

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**Motorshop Specialist**

John Patyk

(815) 488-8953

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**Inside Repair**

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