Cole Electric Technology Inc.

24 Hour Service 7 Days A Week

Dropoff & Pickup
3795 Wendell Drive
Atlanta, Georgia 30336

Administrative Building
3980 Martin Luther King Jr. Drive
Atlanta, Georgia 30336
Phone: 404-691-9119
info@coleelectricms.com

Repair Services

Field Services
Compressed Air Services
Custom Preventive Maintenance Programs
DC Motor Brush & Commutator Wear Analysis
Dynamic Field Balancing
Emergency Field Service
Infrared Thermography & Analysis
Mechanical & Laser Alignment
Motor Cleaning & Lubrication Programs
Motor Commissioning Services
Oil Sampling and Analysis
On-Site Blasting & Coating Services
On-Site Gearbox Inspections
On-Site Motor Inspections
On-Site Pump Inspections
On-Site Testing
On-Site trouble-shooting
On-Site Fabrication & Repair
Pneumatic Actuated Valve Repair & Service
Predictive Maintenance Programs
Predictive Maintenance Services
Pump Repairs & Maintenance
Rigging &Millwright Services
Scheduled Outage Services & Troubleshooting
Trouble Shooting Hydraulic Systems
Turnkey Removal & Reinstallation Services
Turnkey Startups
Variable Frequency Drive PM's
Vibration Analysis

Machine Shop Services
Babbit Bearing Refurbishing
Babbit Bearings Repoured
Bore & Bush Bearing Housings
Bore & Bush Pump Impellers
Dynamic Balancing
Gear Broaching Services
Heli-coil Insertion
Keyway Repairs
Manufacture Bronze Bearings
Manufacture Bronze Sleeves
Manufacture Pump Case Rings
Manufacture Pump Wear Rings
Metalizing (Spray Metal Repair)
Milling Machine Services
OD & ID Thread Cutting
Press Work
Repair of Seal Fits
Shaft Manufacturing
Shaft Repairs
Thread Repair
Turn & Undercut Commutators
Welding
Fabrication Services

Motor Services
Rewinding
AC & DC Motors
AC & DC Coils
Commutators
Lamination Repair & Replacement
Rotor & Armature Repair
Slip Ring
Submersible Motors
UL Motors
VPI
Vertical Pump Motors
Wound Rotor

Reconditioning
Bearing Replacement
Cleaning
Reinsulation
Shaft Repair

Testing
Core Loss Testing
Load Testing
Standard Electrical Tests with Every Motor:
DLRO, Megger, PI Test, Hi-pot & Surge

Pump Services
Repair, Recondition & Rebuild
ANSI Pumps
Booster Pumps
Centrifugal Pumps
Chiller Pumps
Lift Station Upgrades
PD Pumps
Split Case Horizontal Pumps Submersible Pumps
Vertical Turbine Pumps
Vertical Propeller/Axial Flow Pumps
Vacuum Pumps

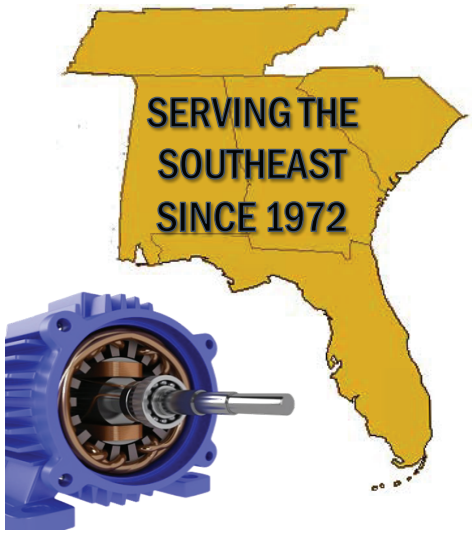
Mechanical Services
Repair & Recondition
Aerators Blowers
Centrifuges
Clarifier Repairs Gearboxes
Gear Re-cutting
Gear Upgrading & Redesign
Gear & Gearbox Manufacturing
Gearbox Ratio Changes
Gearbox Pinion Modifications
Hydro-Generators
Hydraulic & Pneumatic Repairs Industrial Fans
Machinery Rebuilding
Hydraulic Cylinders

Servo Motor Services
Repair, Recondition & Rewinding
AC & DC Servo Motors
Stepper Motors
Encoders
Tachometers

Motorized Pulleys & Drum Motors
Repair, Recondition & Rewinding
Hot Vulcanized Lagging
Cold Bond Lagging

Valves Services
Repair & Refurbish
Butterfly Valves
Ball Valves
Check Valves
Gate Valves
Pneumatic Actuated Valves
Tank Level Altitude Valves
System Regulator Valves

Other Services
Bag/Filter House PM's
Blasting and Powder Coating
Custom Built Control Panels
Custom Built Pump Skid Packages
Custom Built Starter Packages
Custom Built Drive Packages
Equipment Modifications CNC
Plasma Cutting Services
Metal Project Fabrication



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New Equipment Sales

Air Compressors, Vacuum Pumps, Dryers & Filters
IR Ingersoll Rand
Quincy Compressor
Schulz of America
MMD Equipment

Drives and Controls
ABB Low Voltage
ABB Medium Voltage
AC Tech
Baldor / Reliance
Bardac
Benshaw
Cerus
Cutler Hammer
DSI / Eaton Dynamatic
GE Circuit Breaker
GE Multilin
Jefferson Transformer
Leeson
Motortronics
NorthStar – Danaher – Dynapar
Pacific Crest Transformers
Post Glover – IPC Resistors
SEW Eurodrive
TECO-Westinghouse
Toshiba
WEG

Check Valves
DFT Inc.
Flowserve

Electric Motors
Baldor / Reliance
CEG North America
NIDEC / US Motors
General Electric (GE)
LaFert
Leeson
Lincoln
SEW Eurodrive
Sicme Motori
Tech Top
TECO-Westinghouse
WEG

Electric Motor Covers

Equipment Monitoring
I-Alert

Generators
Baldor
MMD Equipment
Winco

Power Transmission
Baldor Gear Products
Dodge Gear Products
Flender/Siemens Gear Products
Emerson Power Transmission
Grove
MASKA
MBL Three Star (V-Belts)
SEW Eurodrive
Overly Haultz (adj. Motor Bases)

Pumps
ABS/Sulzer
Armstrong
Aurora
Barnes
Berkeley
Burks
Crane Deming
Ebara
Goulds
Hydromatic
Mody
Peerless
Vertiflo
Weinman WILO

Pump Parts
All Manufacturers
All Parts

Motorized Pulleys & Drum Motors
Van Der Graaf
Rulmeca
Interroll
Sparks Duradrive

And More!
We have experienced teams of electro-mechanical mechanics and engineers who are skilled at retrofitting existing systems and application engineering to provide our customers with what they need when they need it!

BALDOR A MEMBER OF THE ABB GROUP



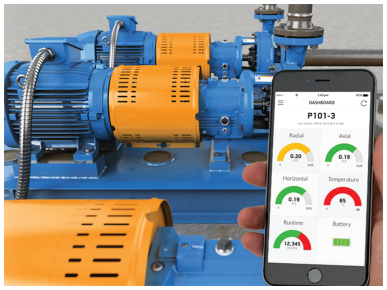
TECO Westinghouse

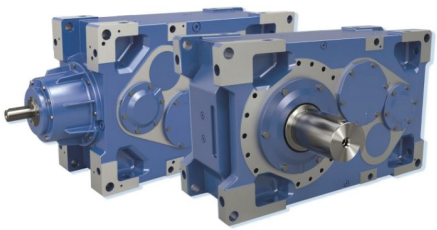
GE US MOTORS Nidec WEG

FLENDER A Siemens Company Rossi Habasit Group

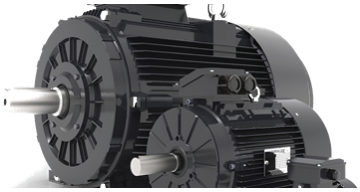
Bonfiglioli

i-ALERT



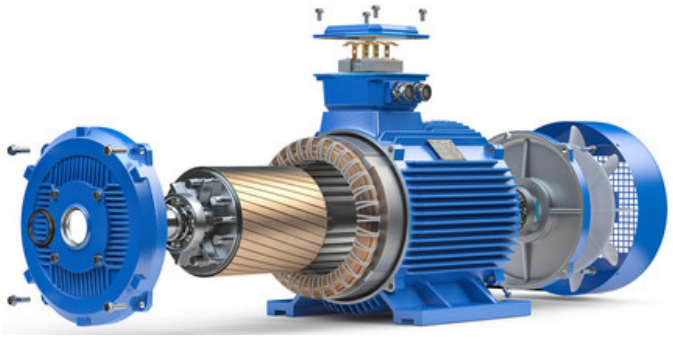






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Cole Technology Inc.



[WHO + WHY WE ARE]

Cole Technology is an organization of five companies that work together to accomplish one goal: Provide our customers here in the Southeast with the BEST service for all their rotating electro-mechanical needs.

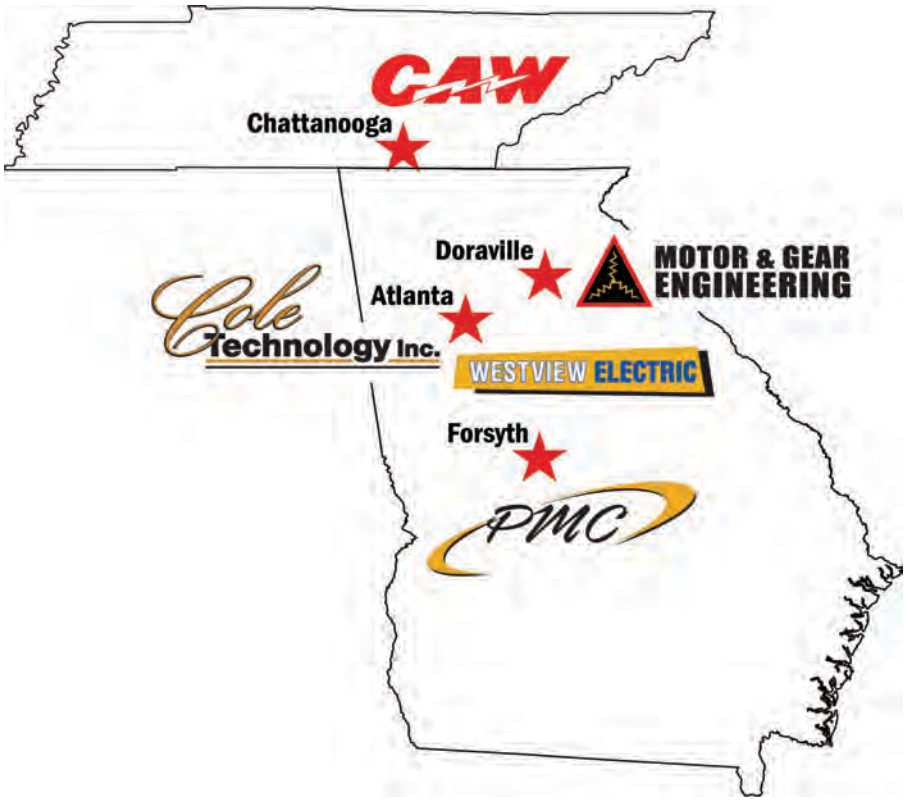
Cole has been a leader in electric motor sales & service since 1979 and has since grown to be a “one stop shop” to handle all our customer’s rotating equipment. Since a motor is only as useful as the machinery it drives, Cole has made it their mission to gather the knowledge and expertise to be able to work on every rotating apparatus of an application. So whether it be pumps, gearboxes, fans, blowers, valves or whatever your processes require, Cole has a team of skilled electro-mechanical professionals throughout our five divisions to allow for turnkey services to be completed by one organization. With these capabilities we can give our customers the assurance that their equipment will operate properly once back onsite making the process hassle-free, quick and efficient.

Strategically located with three shops in Atlanta and two additional shops in Middle Georgia and East Tennessee, we provide quick access to great service while offering the local touch every customer needs.

COLE TECHNOLOGY
3980 Martin Luther King Jr Dr
Atlanta, GA 30336
404-691-9119
coleelectricms.com

MOTOR & GEAR
3545 McCall Place
Doraville, GA 30340
770-454-9001
motorgearengineer.com

CHATTANOOGA ARMATURE WORKS
1209 E 23rd Street
Chattanooga, TN 37408
423-267-7665
cawtn.com



WESTVIEW ELECTRIC
1669 Westview Dr SW
Atlanta, GA 30310
404-460-8448
westviewmotor.com

PMC ENTERPRISES
240 Industrial Park Drive
Forsyth, GA 30129
478-994-2848
pmcenterprises.com

MEET OUR REPAIR TEAM

CHRIS C.

GENERAL MANAGER

30+ YEARS INDUSTRIAL EXECUTIVE MANAGEMENT & 15+ YEARS WITH COLE



JOHN M.

SHOP MANAGER

15+ YEARS MOTOR REPAIR EXPERIENCE & 15+ YEARS WITH COLE



MIKE C.

WINDING OPERATIONS MANAGER

30+ YEARS WINDING MANAGEMENT EXPERIENCE & 12+ YEARS WITH COLE



ROBERT S.

LARGE MOTOR-GENERATOR REPAIR SUPERVISOR

20+ YEARS AC-DC MOTOR REPAIR EXPERIENCE & 20+ YEARS WITH COLE



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MEET OUR REPAIR TEAM

MIKE W.

WINDING SUPERVISOR

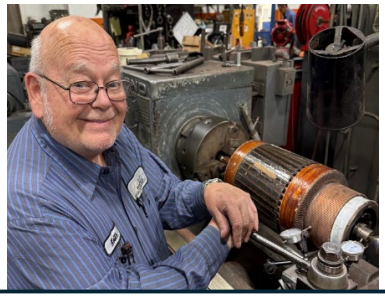
30+ YEARS WINDING EXPERIENCE & 30+ YEARS WITH COLE



KEITH L.

MACHINE SHOP SUPERVISOR

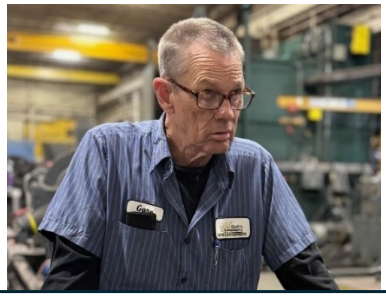
30+ YEARS MACHINIST & 30+ YEARS WITH COLE



GARY L.

SENIOR MACHINIST & FIELD SERVICE

30+ YEARS MACHINIST & 30+ YEARS WITH COLE



KYLE B.

GEARBOX REPAIR MANAGER & PARTS SPECIALIST

20+ YEARS REPAIR EXPERIENCE & 8+ YEARS WITH COLE



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MEET OUR REPAIR TEAM

MARTY F.

SENIOR MOTOR REPAIR TECHNICIAN & FIELD SERVICE

30+ YEARS AC-DC MOTOR REPAIR EXPERIENCE & 30+ YEARS WITH COLE



CAMERON H.

FIELD SERVICE TECHNICIAN

7 YEARS FIELD SERVICE EXPERIENCE & 7 YEARS WITH COLE



CHRIS S.

MACHINIST & WELDER

10+ YEARS MACHINIST EXPERIENCE & 10+ YEARS WITH COLE



WILL C.

MOTOR REPAIR TECHNICIAN

10+ YEARS AC-DC MOTOR REPAIR EXPERIENCE & 10 YEARS WITH COLE



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MEET OUR REPAIR TEAM

EARL J.

GEARBOX REPAIR SUPERVISOR

30+ YEARS GEARBOX REPAIR EXPERIENCE & 20+ YEARS WITH COLE



ADAM L.

PUMP REPAIR SUPERVISOR

15+ YEARS PUMP REPAIR EXPERIENCE & 15+ YEARS WITH COLE



JENNIFER S.

SENIOR REPAIR COORDINATOR

5 YEARS REPAIR COORDINATION EXPERIENCE & 5 YEARS WITH COLE



CHRIS S.

SENIOR WINDER

25+ YEARS AC-DC WINDING EXPERIENCE & 10+ YEARS WITH COLE



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COLE ELECTRIC TECHNOLOGY: ATLANTA HEADQUARTERS

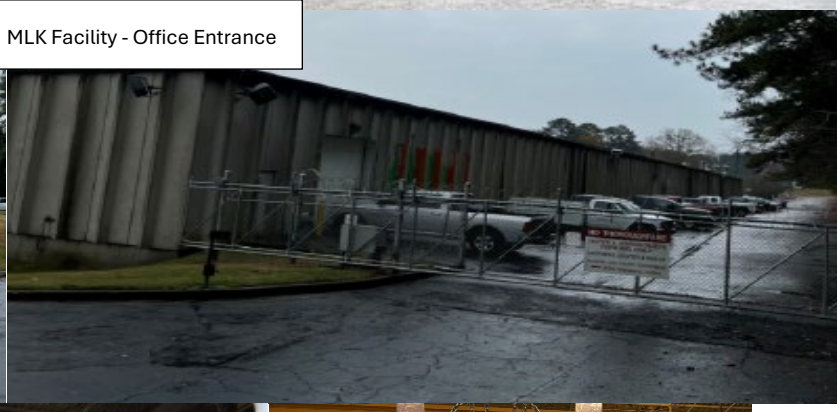
- Est. 1979
- 70,000+ Sq. Ft.
- 100+ Employees
- 5 Locations

MLK Facility - Service Entrance



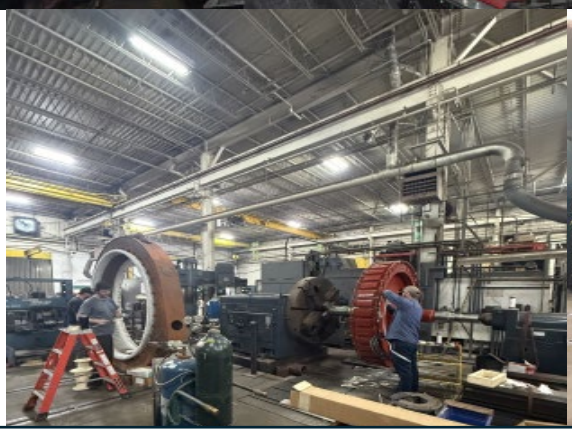
MLK Facility - Office Entrance













COLE ELECTRIC TECHNOLOGY
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www.coleelectricms.com

OUR CAPABILITIES: 6,000 HP SYNCHRONOUS AC MOTOR REPAIR

OEM-------GE

HP---------6,000

VOLTS----4,000

RPM-------514



Received



Disassembly & Inspection

Rewinding Stator with new Form Coils

Dynamic Balancing of Rotor









Re-installing Rotor





Delivered

COLE ELECTRIC TECHNOLOGY
Main: (404) 691-9119
3980 Martin Luther King Jr Dr SW, Atlanta, GA 30336
www.coleelectricms.com

OUR CAPABILITIES: 3,000 HP SYNCHRONOUS AC MOTOR REPAIR

Received







Stripping Existing Stator Coils



OEM-------GE

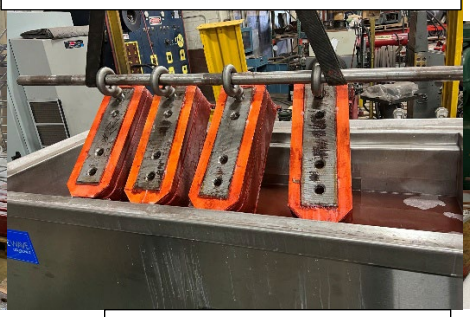
HP---------3,000

VOLTS----4,000

RPM-------180



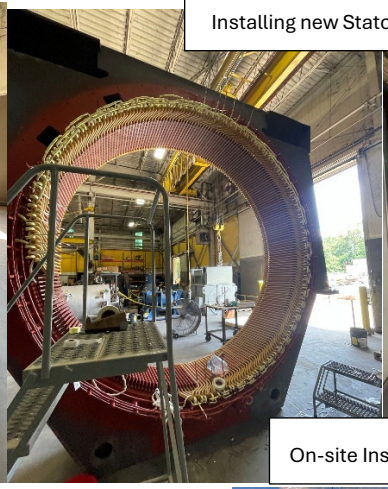
Testing & Ultra-sonic Cleaning of Poles/Fields



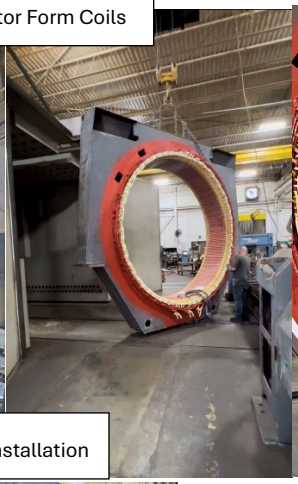
New Form Coils







Installing new Stator Form Coils

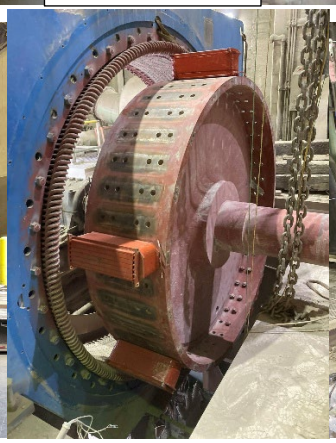




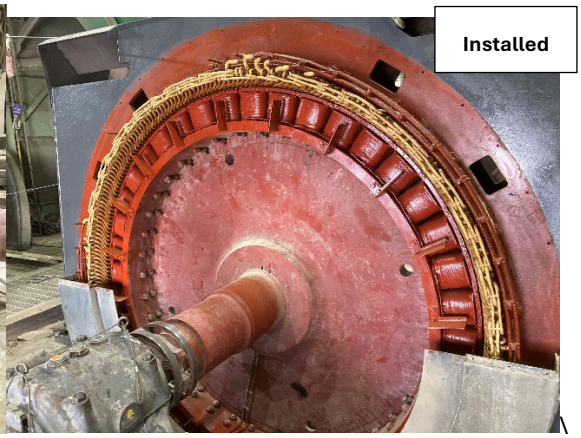
On-site Installation

Delivered





Installed



COLE ELECTRIC TECHNOLOGY
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www.coleelectricms.com

OUR CAPABILITIES: 600 HP SYNCHRONOUS AC MOTOR REPAIR

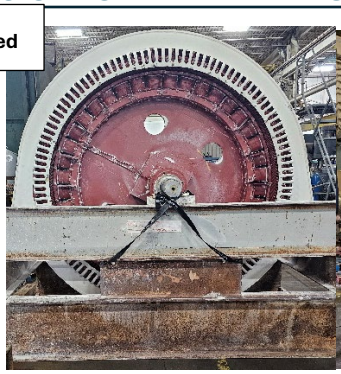
OEM-------GE

HP---------600

VOLTS----2,300

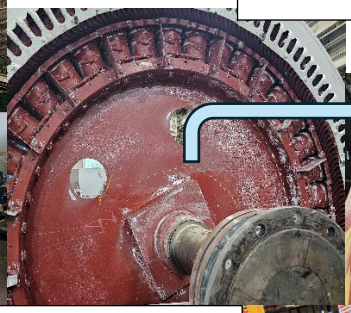
RPM-------180

Received





Cracked Rotor Spyder









Damaged Babbitt Bearing Pedestal







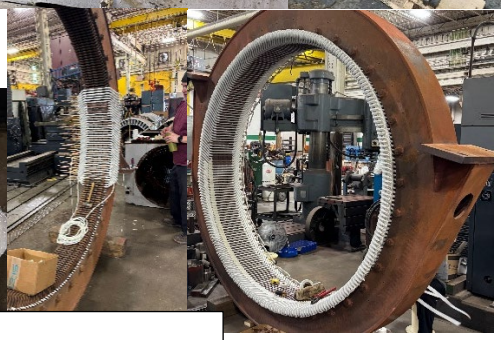






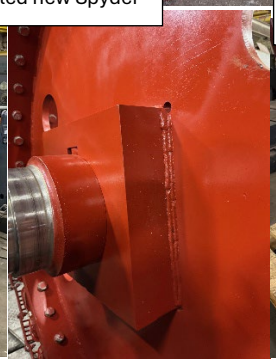
Rewinding Stator



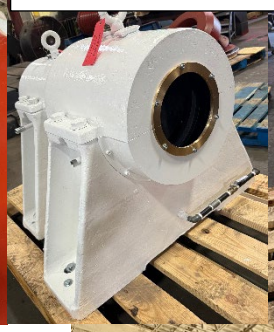


Fabricated & Installed new Spyder





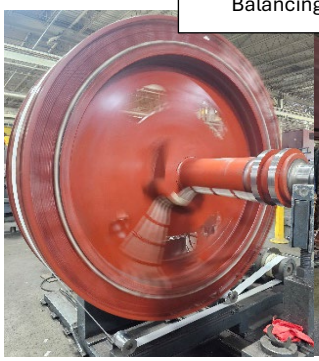
Fabricated new Pedestal & Re-Babbitted Bearings







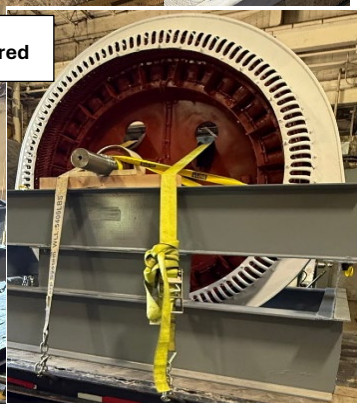
Balancing & Final Assembly





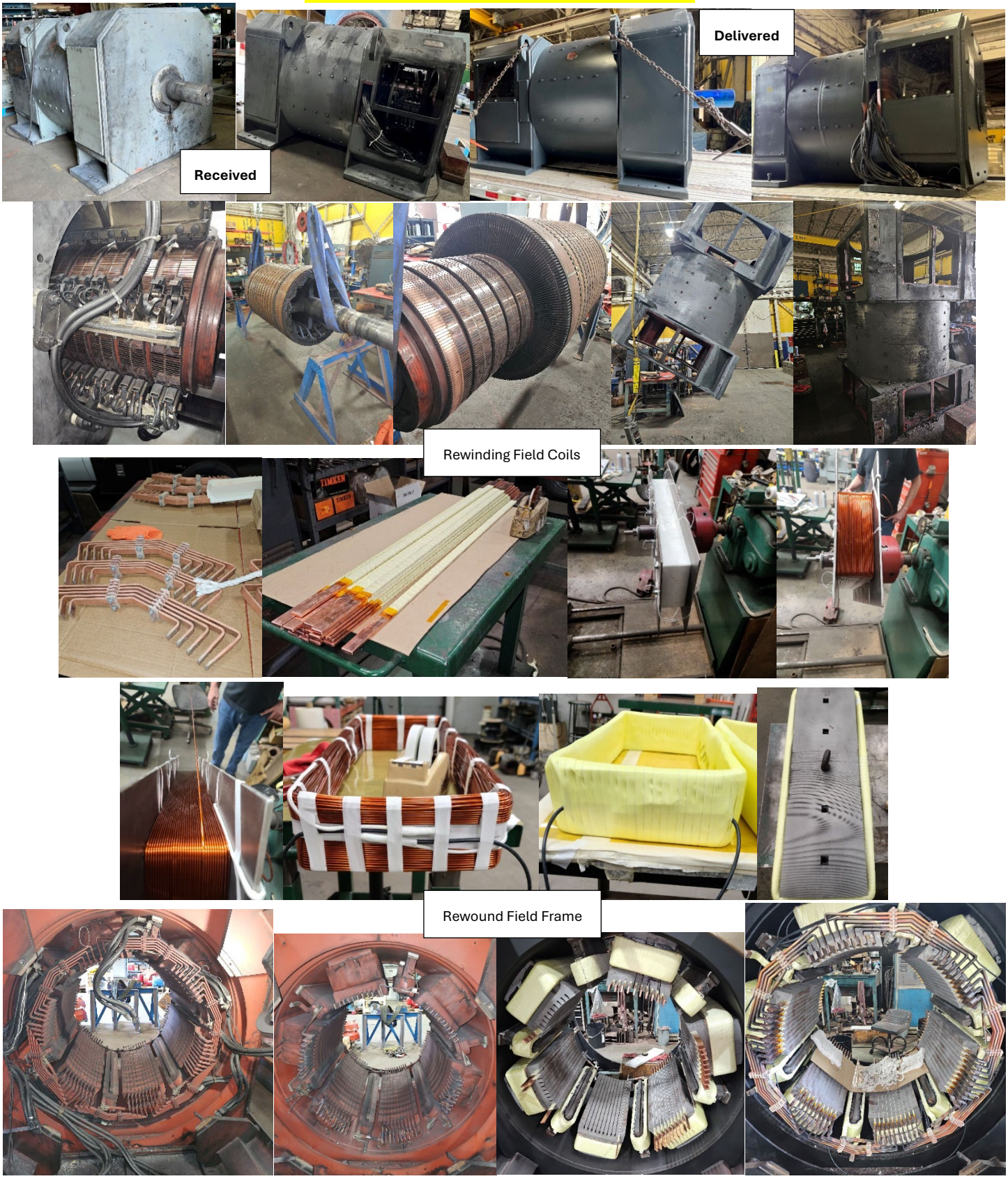
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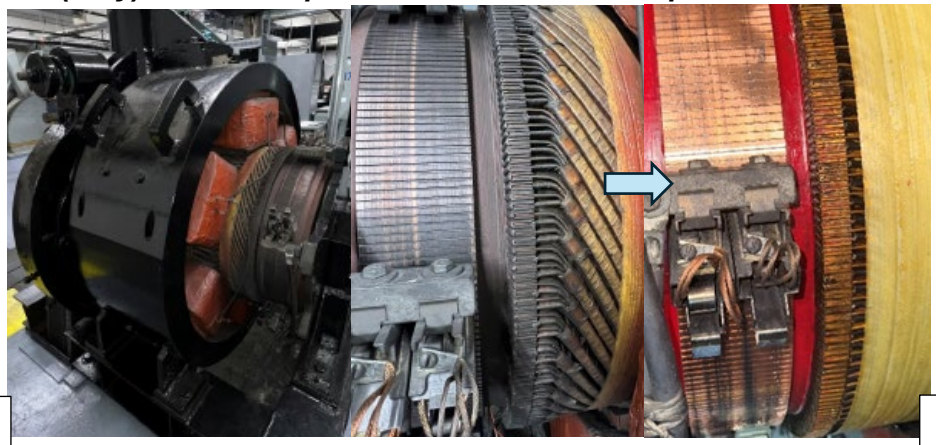
OUR CAPABILITIES: 3,000 HP DC MOTOR REPAIR



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OUR CAPABILITIES: ***DC MOTOR REPAIR***

In-house Armature (only) Rewind-Repair with Commutator Replacement *– DC Elevator Hoist Motor*



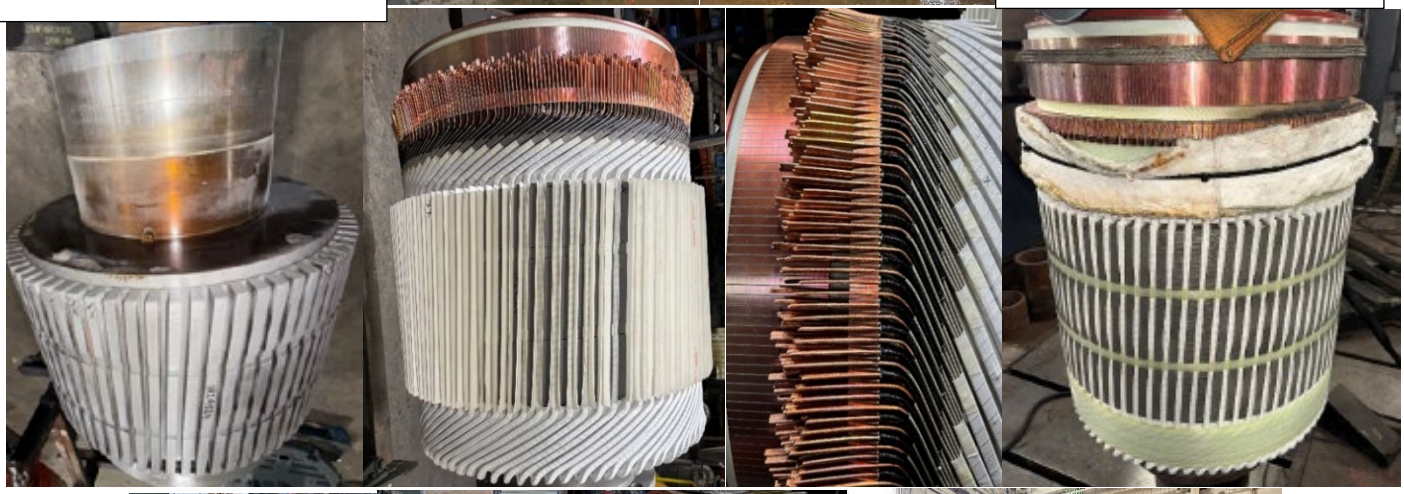
Received

Installed



Armature Coils & Commutator Removed

Hundreds of Newly Welded Armature -Commutator Connections



Delivered



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Main: (404) 691-9119
3980 Martin Luther King Jr Dr SW, Atlanta, GA 30336
www.coleelectricms.com

OUR CAPABILITIES: ON-SITE DC MOTOR REPAIR

***ON-SITE* Armature Rewind & Commutator Replacement** – *Large DC Elevator Hoist Motor*







Replacement Commutator

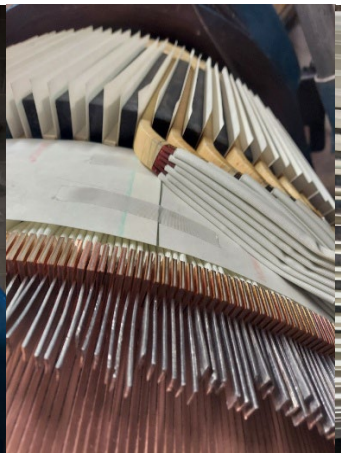


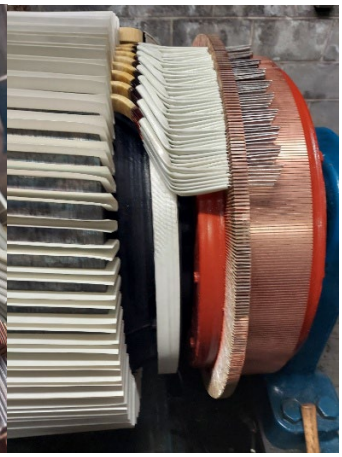
Dielectric Bar-to-Bar Tester
Used to Evaluate Commutator

Rewinding Armature with new Form Coils After new Commutator Installation

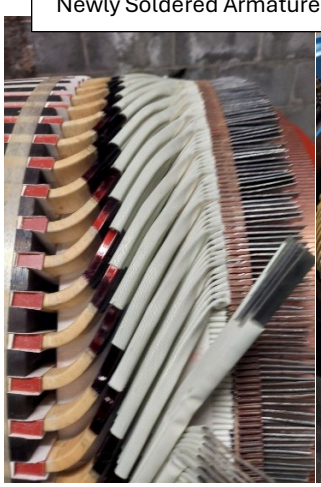


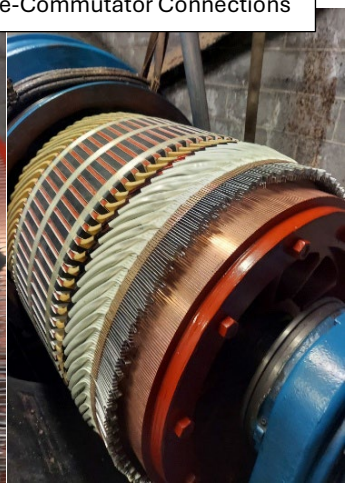






Newly Soldered Armature-Commutator Connections





Completion

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OUR CAPABILITIES: **ON-SITE DC MOTOR REPAIR**

***ON-SITE* Armature Rewind & Commutator Replacement** – *Large DC Elevator Hoist Motor*









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OUR CAPABILITIES: COIL REWIND & REPAIRS

Field, Interpole & Brake Coil Repairs

Received



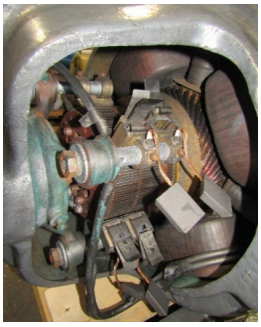


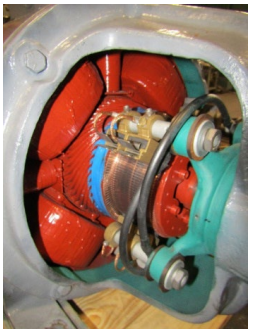

Delivered

Received with dry, Brittle, & Cracked Insulation. Copper Wire Exposed



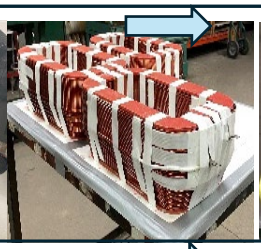

Delivered with new Copper Wire, Insulated Wrapping & Multiple Layers of Cured Insulation



Field Coils





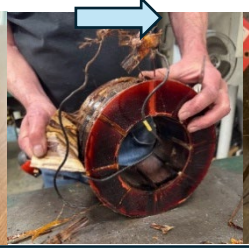


Interpole





Brake Coil


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OUR CAPABILITIES: GENERATOR & GEN-SET REPAIRS

Obsolete 600 HP Generator, Motor & Clutch Project

Received







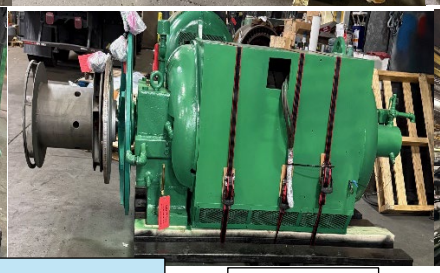
600 HP AC Motor Delivered

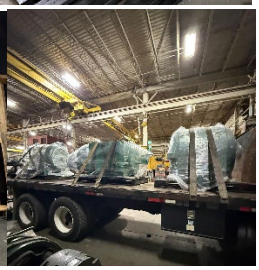


Delivered





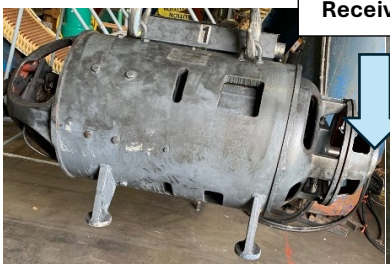


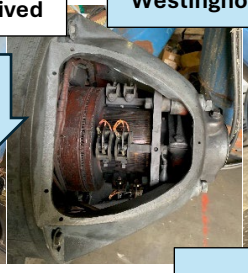


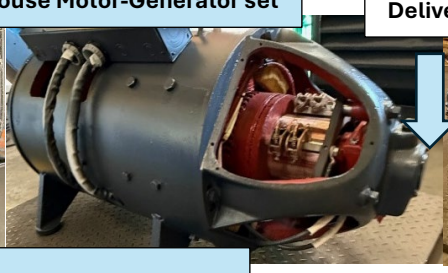
Received

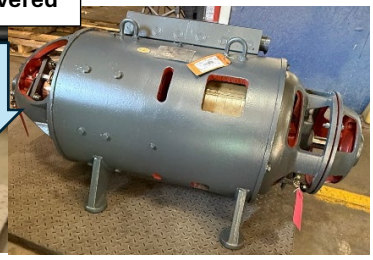
Westinghouse Motor-Generator set

Delivered



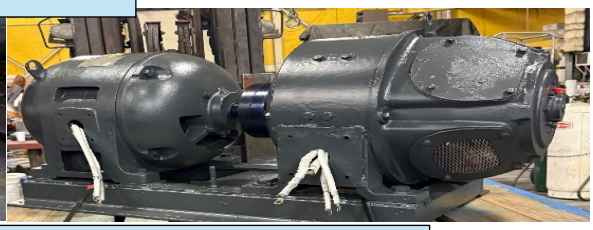






GE Motor-Generator set





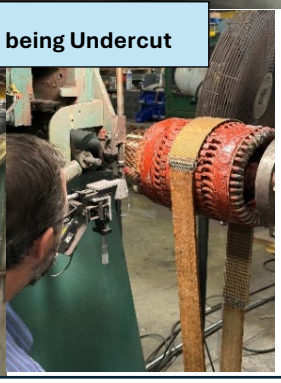
Ex.) Motor-Gen set Rotating Element / Armature Rewind with new Commutator





Ex.) Turned Commutator being Undercut





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OUR CAPABILITIES: QUALITY WINDING INSULATION

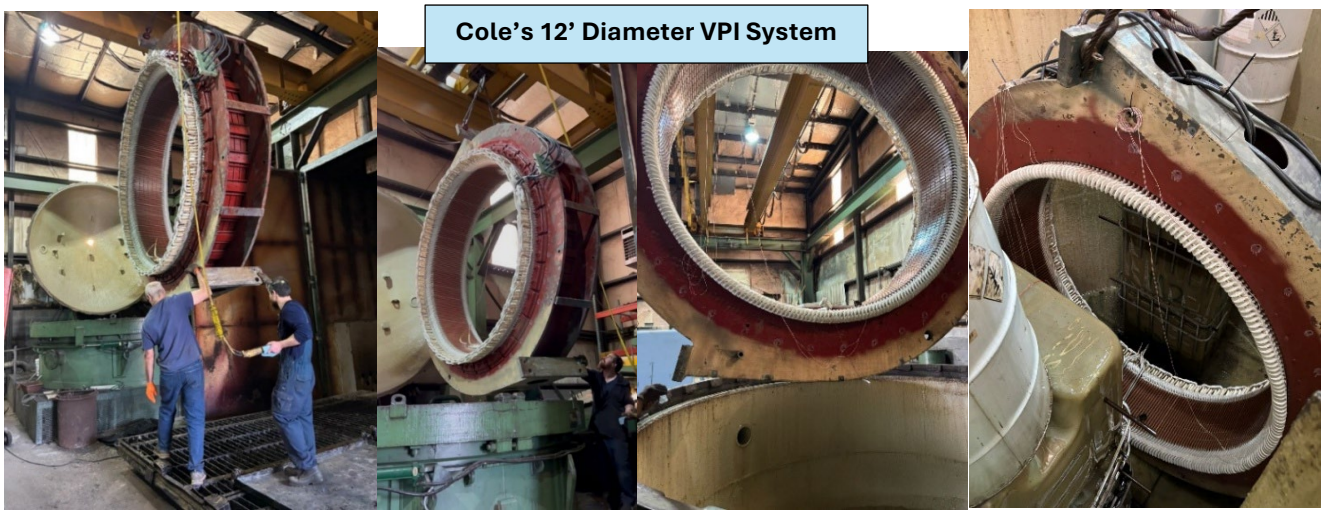
VACUUM PRESSURE IMPREGNATION (VPI)

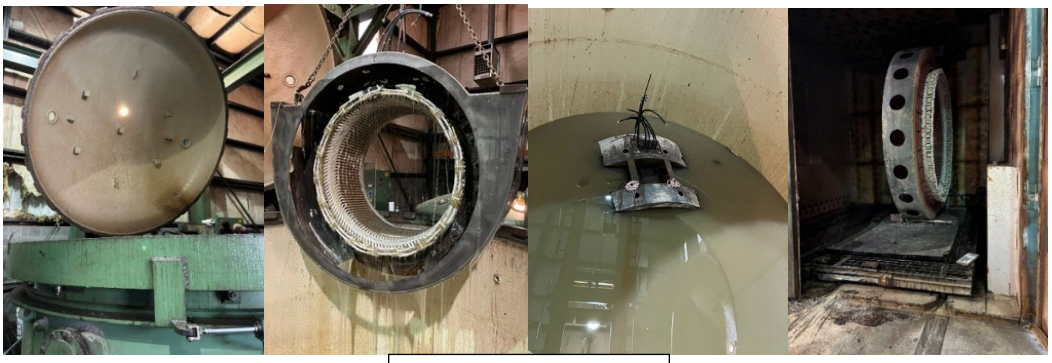
WHAT IS VPI?

VPI is an advanced insulation process used in the manufacturing and refurbishment of electrical components. During VPI, the component—such as a motor stator, armature or coil—is placed in a re-enforced steel pressure vessel. Next, a vacuum is created to remove air and moisture then an insulating resin is introduced and forced deep into the windings and insulation system under immense pressure. This process ensures complete saturation and bonding, which significantly improves winding performance and durability.

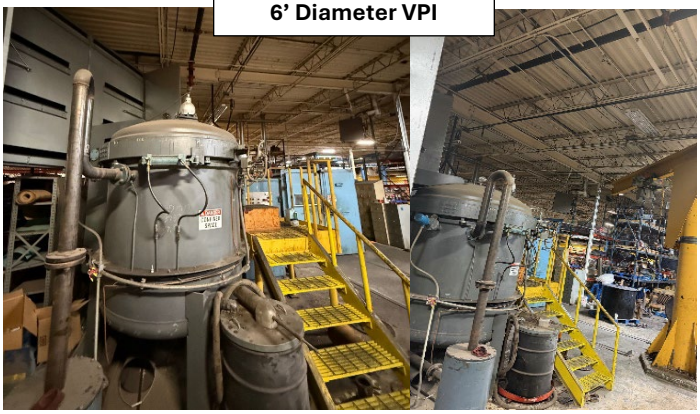
The vacuum pressure impregnation process makes motor components better at: resisting electrical breakdowns, withstanding harsh operating conditions, and performing optimally over longer periods.

Cole's 12' Diameter VPI System





6' Diameter VPI



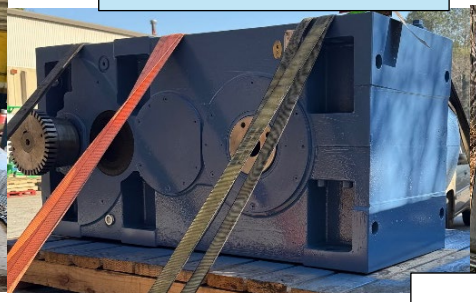
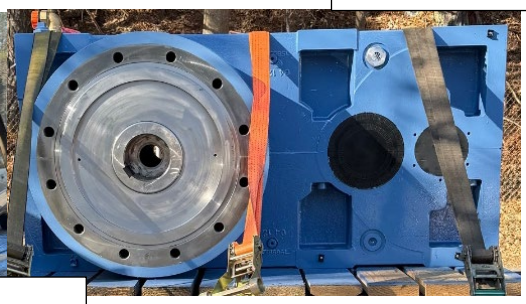
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OUR CAPABILITIES: GEARBOX REPAIRS

INPUT HP-------500-800
INPUT RPM-----1200
RATIO----------16.49:1
OUTPUT RPM—72.77

KOELLMANN EXTRUDER



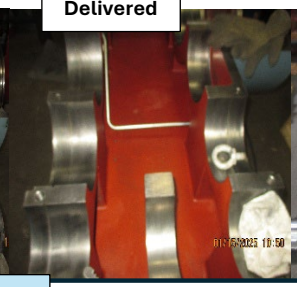



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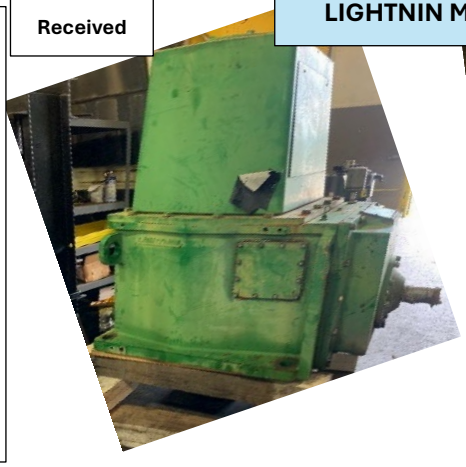


Delivered




LIGHTNIN MIXER

Received



Delivered



REPAIR SCOPE

-Pickup
-Disassembly
-Mechanical Inspection
-Failure Analysis
-Parts & Gear Replacement
-Machine Work Repairs
-Housing Preparation
-Re-assembly & Q.C.
-Test Run & Monitor
-Paint
-Delivery
-Field Service Installation

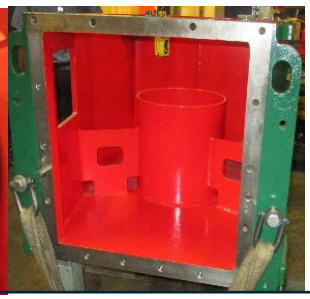










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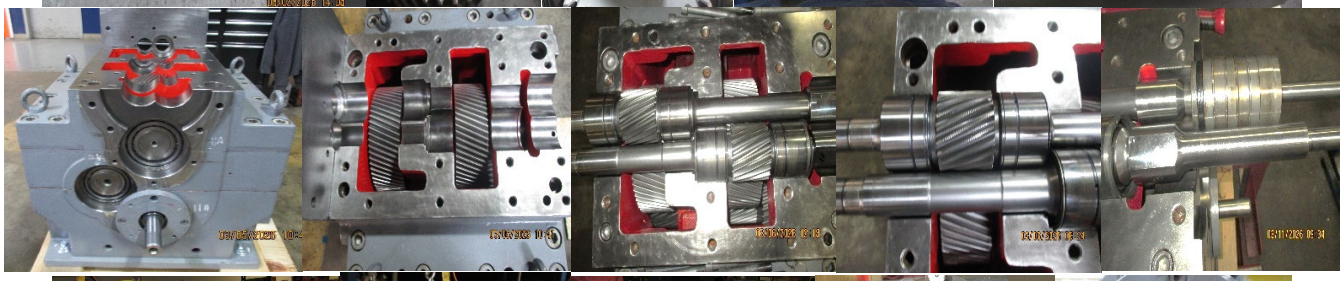
OUR CAPABILITIES: **GEARBOX REPAIRS**

PIV TWIN EXTRUDER

Received

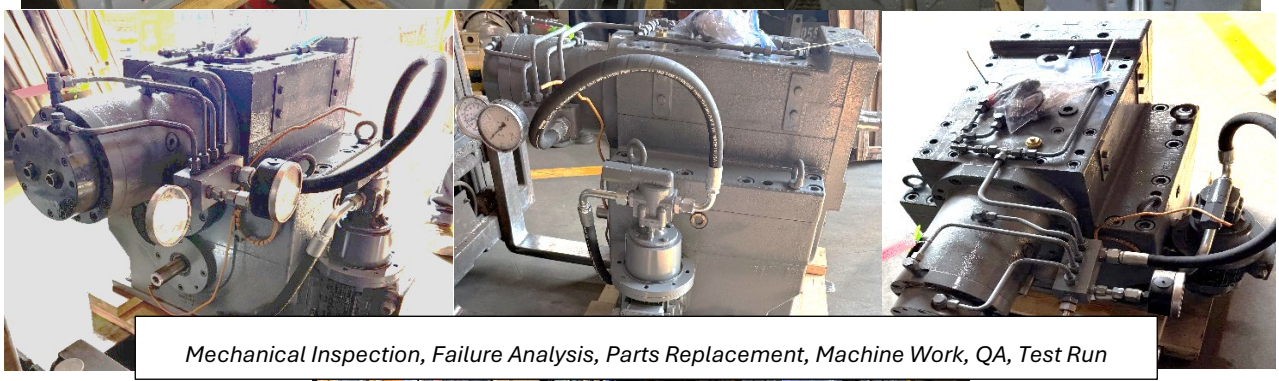




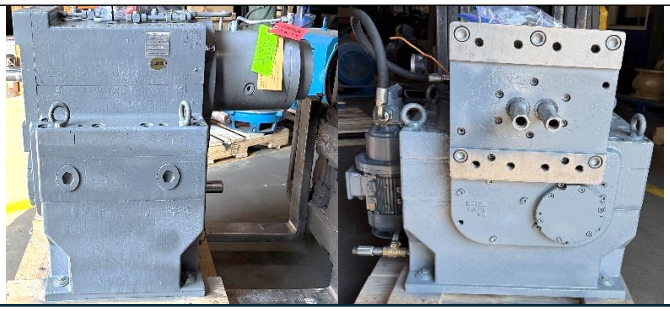




Delivered



Mechanical Inspection, Failure Analysis, Parts Replacement, Machine Work, QA, Test Run



TORQUE---------2x1312 Nm
INPUT RPM------2631
RATIO----------3.508:1
OUTPUT RPM—-750

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OUR CAPABILITIES: **PUMP REPAIRS**

Received



Disassembly



Assembly



Delivered

Installation



Installing New 400 HP Vertical Motor



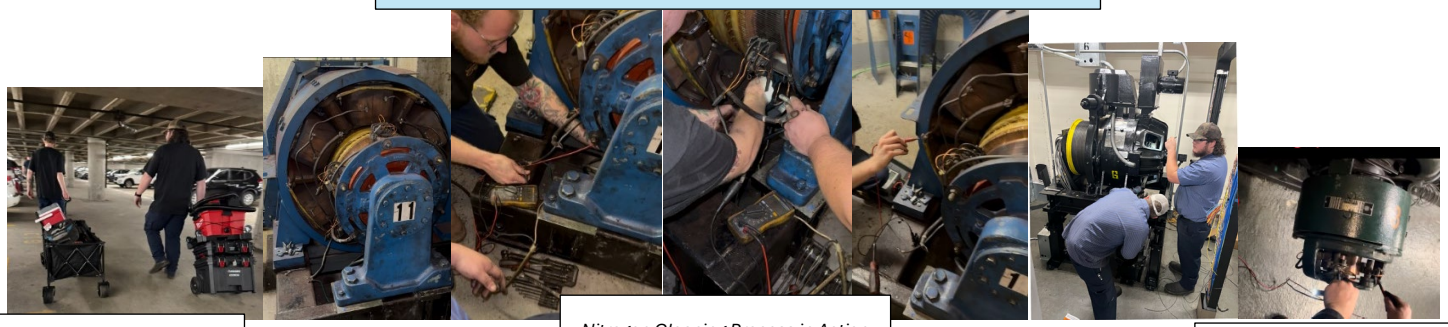


Completion

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OUR CAPABILITIES: ELECTRICAL TESTING & CLEANING

DC Motor On-site Cleaning & Electrical Testing



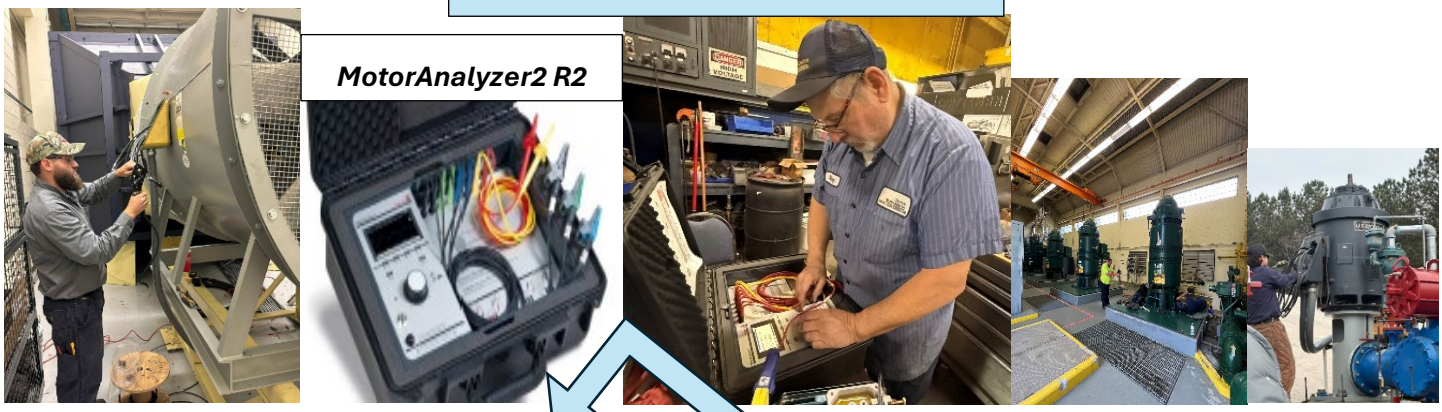
Initial armature meg reading

Nitrogen Cleaning Process in Action

Rising armature meg reading



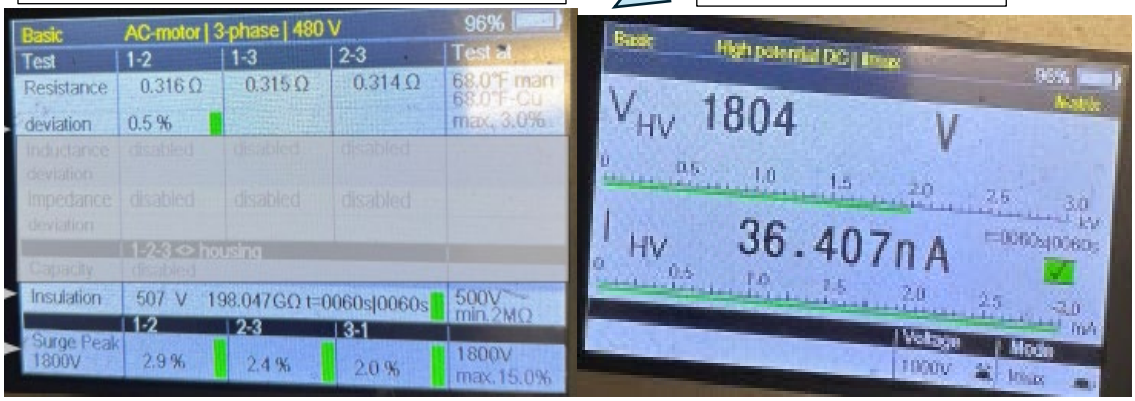
AC Motor On-site Electrical Testing



MotorAnalyzer2 R2

Wire Resistance, Insulation Resistance & Surge Voltage

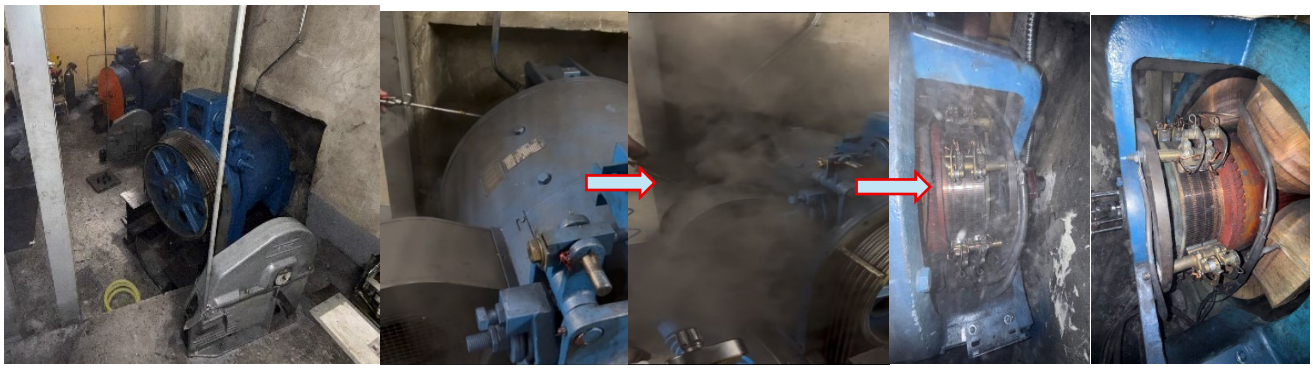
High Potential 'HiPot' Test



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OUR CAPABILITIES: DC MOTOR ON-SITE CLEANING

DC Motor **On-site Nitrogen Based Cleaning, Electrical Testing & Evaluation**



*(**Ex. On-site Nitrogen Based Cleaning Dislodging of Carbon Residue** & Sample DC Electrical Evaluation Report Below)*

Insulation Resistance (Megohm) Comparison

Component	Pre-Clean IR Reading	Post-Clean IR Reading	Test Voltage	PASS	
Armature	MΩ	MΩ	V		
Field Coils	MΩ	MΩ	V		
Interpoles / Commutating Poles	MΩ	MΩ	V		
Brush Rigging / Brush Holders to Ground	MΩ	MΩ	V		
Lead Cables / Motor Leads	MΩ	MΩ	V		
Accessories / Space Heaters / Aux Circuits	MΩ	MΩ	V		
Other 1: _____	MΩ	MΩ	V		
Other 2: _____	MΩ	MΩ	V		

Field Coil AC Voltage Drop Check

F1	F2	F3	F4	F5	F6	F7	F8
V	V	V	V	V	V	V	V

Overall Deviation %		PASS	