



**ELECTROMECHANICAL REPAIR,
PARTS & TESTING POWERED BY
HUMAN INGENUITY.**



PROUD OF OUR HISTORY. DEDICATED TO OUR WORK. COMMITTED TO OUR PEOPLE.

At Jenkins, we've built a company and culture that we're proud of. And over the last century, we've learned some important and valuable things beyond our electromechanical expertise: people are our greatest asset, it's important to share knowledge and findings freely, and there is a solid middle ground between hands-on ingenuity and technological innovation. Today, that's what makes us more than just a respected motor shop. We're a home for human energy and the spark it creates.

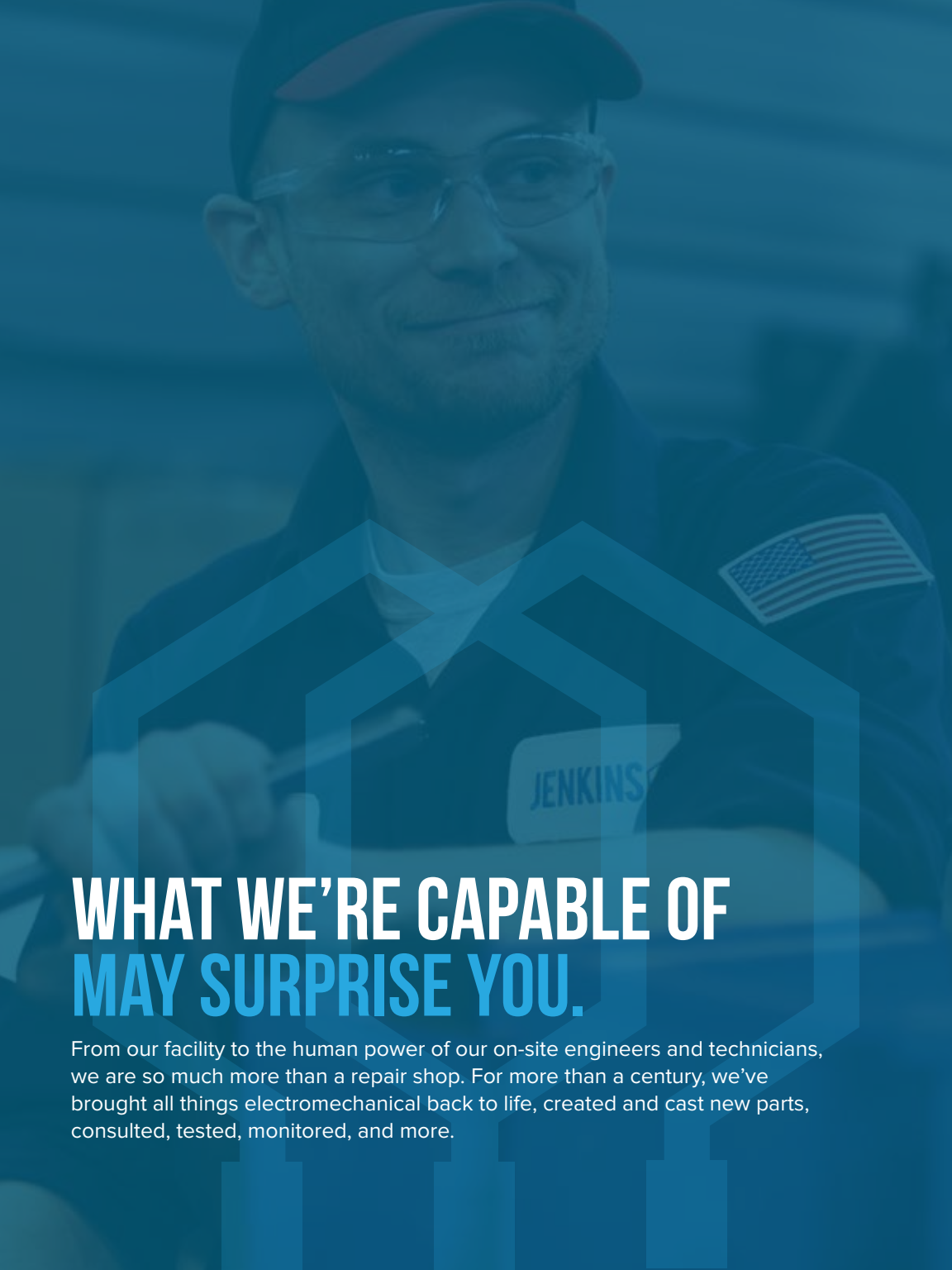
70+
EMPLOYEES

7
**ON-STAFF
ENGINEERS**

110+
YEAR HISTORY



**BASED IN
CHARLOTTE, NC**



WHAT WE'RE CAPABLE OF MAY SURPRISE YOU.

From our facility to the human power of our on-site engineers and technicians, we are so much more than a repair shop. For more than a century, we've brought all things electromechanical back to life, created and cast new parts, consulted, tested, monitored, and more.

OUR FACILITY

Size
Overhead crane
Bay height (vertical)
Training center

50,000 square feet
20 tons
22 feet
Classroom & hands-on

ELECTRIC MOTOR REPAIR

Burnout
Winding
Bake
Load testing

72" w x 96" d x 81" h
AC to 5,000 HP/DC to 2500 HP
72" w x 240" d x 72" h
4160V/300KVA/DC to 300A/Servos

MECHANICAL REPAIR

Turning & milling
Press work
Balancing
Welding

72" diameter/31' length
300 tons
10 tons
MIG, TIG & submerged arc

TRANSFORMER REPAIR

Autotransformers
Reactors
Specialty coils
Testing transformers

Medium voltage, dry type
Medium voltage
Custom wound, all sizes
5,000KVA

ON-SITE SERVICES

Vibration analysis
Thermography
Vehicle capacity for pick-up/delivery
Pick-up/delivery range
Rewind

Field balancing
Laser alignment
5 tons
NC, SC, VA, GA, TN & WV
Large stationary equipment

FOUNDRY SERVICES

Design/prototyping
Metal casting
Machining

Metal
Aluminum, brass, bronze, copper
Turning, milling & CNC

THERE'S NOT MUCH WE CAN'T OR HAVEN'T REPAIRED OVER THE LAST 100 YEARS.

Electromechanical is our preferred medium. At Jenkins, we excel at repairing motors and generators, rewinding transformers and specialty coils, providing electrical and mechanical repair services, machining, and casting.



REPAIR SERVICES

AC/DC MOTOR & GENERATOR REPAIR

- EASA AR100 standard
- In-house DC coil manufacturing & design
- Motor coil diagnostics & testing
- Motor testing
- Commutator repair & maintenance
- DC Armature rebuilds
- Servo motor repair, setup & testing
- Critical equipment storage

PUMP & GEARBOX REPAIR

- Precision pump & gearbox rebuilds
- Pump & motor repair
- Replacement seals
- Impeller, shaft & housing machine work
- Valve repair
- Impeller coating

ELECTRICAL TESTING

- Motor circuit analysis
- Load testing
- Core loss, surge, hipot, megohmmeter
- Partial discharge
- Polarization index
- Servo motor testing

TRANSFORMER REWIND & SPECIALTY COIL WINDING

- EASA AR200 standard
- Transformer rebuilds
- New transformers
- Specialty coils
- Quick turnaround of rebuilt units
- Load testing

MACHINING

- Turning & milling
- Precision welding
- Precision fabrication
- Babbitt bearing repair & remanufacturing

MECHANICAL REPAIR

- Vibration analysis
- Thermography
- Ultrasound
- Load testing
- Precision re-builds
- Dynamic balancing
- Press work

WE CONDUCT EXTENSIVE TESTING TO KEEP YOU UP AND RUNNING.

Whether it's thoroughly testing a motor that we just repaired or testing your existing equipment for signs of weakness, we work hard to keep costly surprises at bay. Our testing products and services were developed to do just that.



TEST SERVICES

**CORE LOSS, HIPOT,
SURGE TESTING & MEGOHMMETER**

VIBRATION ANALYSIS

- Catch costly repairs before they happen with predictive or preventative maintenance

LOAD TESTING OF GEARBOXES

ROOT CAUSE FAILURE ANALYSIS

INSULATION RESISTANCE

ARC FLASH ANALYSIS

**ELECTRIC MOTOR, SERVO &
TRANSFORMER LOAD TESTING**

PREDICTIVE MAINTENANCE

- Thermography
- Online monitoring

MOTOR CIRCUIT ANALYSIS

- Drives, breakers, relays & switchgears

PARTIAL DISCHARGE

POLARIZATION INDEX TESTING

**OUR TESTING AND ANALYSIS IS BACKED BY
A TEAM OF SEVEN IN-HOUSE ENGINEERS.**

WHEN YOU CAN'T COME TO US, WE CAN BRING OUR EXPERTISE TO YOU.

Our field services team can repair, test and monitor at your location when bringing equipment to us isn't feasible or efficient. Our years of experience travels well, as do our technicians, engineers and testing equipment.



FIELD SERVICES

ENGINEERING SERVICES

ON-SITE MOTOR & GENERATOR REWINDS

FIELD MACHINING

FIELD BALANCING

EQUIPMENT INSTALLATION & STARTUP

- Laser alignment

PREDICTIVE MAINTENANCE & ANALYSIS

- Vibration analysis
- Thermography
- Online monitoring
- Routine electrical testing
(core loss, hipot, surge & partial discharge)

STORED EQUIPMENT MAINTENANCE

- Periodic maintenance and testing of stored equipment at your facility
- Climate-controlled storage and maintenance of spare equipment at Jenkins

CLEANING & INSPECTION

- Dry ice cleaning
- Solvent cleaning

**WE DON'T KEEP OUR EXPERTISE TO OURSELVES.
WE TAKE IT ON THE ROAD TO YOU.**

WHEN YOU NEED A HIGH-QUALITY PART, YOU CAN ALWAYS CALL JENKINS.

We've manufactured and distributed quality parts and equipment across a variety of industries for half a century, sharing our knowledge, expertise and helping solve challenges by collaborating with our customers.



REPLACEMENT PARTS

ELECTRIC MOTOR REPLACEMENT COOLING FANS

- Shallow recess
- Paddle wheel
- Flat backed
- Recessed hub
- Armature/rotor
- Deep recess
- Directional axial or radial
- Shrouded
- DC/armature
- Bolt/clamp
- Split bolt/clamp

ELECTRIC MOTOR OEM COOLING FANS

- Baldor
- Century
- Delco
- General Electric
- Leeson
- Lincoln
- Louis Allis
- Marathon
- Reliance
- Siemens
- Teco
- Toshiba
- US Electric
- WEG
- Westinghouse

ELECTRIC MOTOR REPLACEMENT PARTS

- Brush holders
- Eye bolts
- EM-Quik sleeves
- Fan covers
- Lubricaps
- Motor bases
- Oil rings
- Slip rings
- Terminal blocks
- Terminal boxes
- Water slingers

ELECTRIC MOTOR PROTECTION

- Field loss relays
- Overload relays
- Thermocouples & RTDs
- Thermistors
- Ground fault protection
- Space heaters
- Thermal protectors, klixons & button style

**YOU CAN ALWAYS JUST CALL JENKINS. AND NOW,
YOU CAN ALSO SHOP AND ORDER PARTS ONLINE.**

IF YOU CAN'T FIND IT, WE CAN MAKE IT.

Our in-house foundry can create new, precision parts for those obsolete or hard-to-find parts. Cast from a sample or print, or select a pattern from our extensive library for one-off or large scale production.



FOUNDRY CAPABILITIES

NON-FERROUS METALS

- Aluminum, brass, bronze & copper

DESIGNING/PROTOTYPING

- Create new prototypes or redesign of obsolete parts

PATTERN SERVICES

- New custom patterns
- Pattern repair
- Pattern storage

METAL-TREATING SERVICES

- Heat treating
- Powder coating
- Anodizing

CASTING

- New, precision parts from a sample or print
- Continuous pour capacity
 - Aluminum: 600 lbs
 - Copper, brass, bronze: 400 lbs

MACHINING

- Broad machining capabilities, both in physical capacity and machine type
 - Turning & milling
 - Press work
 - Dynamic balancing
 - Welding

**SOMETIMES, THE BEST WAY TO HONOR THE PAST
IS TO RECREATE IT IN OUR FOUNDRY.**

NOT EVERYTHING CAN BE REPAIRED. WHICH IS WHY WE PROVIDE OPTIONS.

When repairs aren't feasible or cost-effective, Jenkins offers a full range of new electric motor sizes and types. For transformers and specialty coils, the team at Jenkins can work with you to build or rewind a failed transformer in-house or determine the right option from one of our quality tried-and-trusted providers.



MOTORS, TRANSFORMERS & SPECIALTY COILS

NEW ELECTRIC MOTORS

- Standard motors
- Metric motors
- Explosion proof motors
- Premium efficient motors
- Replacement parts



TRANSFORMERS & SPECIALTY COILS

- Control transformers
- Potential & current transformers
- Autotransformers
- Isolation transformers
(general purpose, buck boost, ignition)
- Variable transformers
- Drive isolation transformers
- Line reactors
- Custom coils

**WE ONLY OFFER QUALITY PRODUCTS,
WHETHER OUR OWN OR THROUGH OUR PARTNERS.**

OUR TEST SYSTEMS ARE THOROUGH AND TRUSTWORTHY. JUST LIKE US.

Our Motor Test Systems are built on the principles of safety, user-friendly operation, and dependable service. And they have been for more than fifty years, keeping our customers up and running with our full support.



TEST SYSTEMS

MOTOR TEST SYSTEMS, 166KVA-5, 000KVA MODELS

- Hand-wound transformers, custom-built to your application
- Lower total cost of ownership
- Less maintenance
- Longer life-span
- 18-month warranty on workmanship
- On-site technician training and commissioning (optional)
- Remote online system support
- System enclosure designed to conserve shop floor space and ease of access for calibration
- User-friendly controls
- Test data recorded and formatted in an easy-to-read report
- Eye-level 23" HMI touch screen
- Continuous display of outputs during operation
- Displays system input and output voltages, currents, frequency and tachometer reading

TEST DOCUMENTATION UPGRADES

Temperature & vibration module
TDS add-on modules for existing equipment

OPTIONAL ACCESSORIES

Upsize of DC current or AC voltage outputs
Boom-mounted lead isolation

INVESTING IN MONITORING CAN MEAN AVOIDING COSTLY REPAIRS.

Our comprehensive monitoring services and products, as well as our large staff of engineers and technicians, can help ensure your equipment is running smoothly. If it isn't, our on-site repairs can be coordinated with scheduled downtime to ensure minimal disruption.

DANGER
HIGH VOLTAGE



DATA ACQUISITION PRODUCTS



TDS ADD-ON MODULES

- Upgrade any brand of existing motor test supply
- Bolt to the side of your existing test supply
- Pull electrical test data from test leads
- Purchase separately to add onto existing test supply

TEMPERATURE & VIBRATION MODULE

- Portable data acquisition system
- Connects to test documentation PC via a USB cable
- Ports for six accelerometers, four thermocouples & four RTDs
- Software upgrade includes:
 - Display of temperature and vibration data on the meter screen
 - Graphical display of temperature vs. time curves
 - Vibration FFTs

OVEN TEMPERATURE MONITOR

- Made for burn-out and bake ovens to record stator temperatures to comply with EASA's AR100 standard
- Each module covers multiple thermocouple channels (8 or 16) accessed anywhere on your network with TDS-oven module software
- Records data to a local or network drive
- Can work as a stand-alone system or added to the TDS software in Jenkins Motor Test Systems

**ACHIEVING PEAK PERFORMANCE IS CRITICAL.
OUR TEAM DELIVERS THAT EVERY DAY.**

ONLINE MONITORING PUTS YOU IN THE MAINTENANCE DRIVER'S SEAT.

Replacing worn-out or malfunctioning components before they fail is critical, both from a time and cost perspective. We can help you predict issues and protect production and equipment while reducing maintenance costs with on-site online monitoring.



ONLINE MONITORING

ONLINE MONITORING

- Signal processing and measurement capabilities needed to detect and identify faults
- Provide status across all classes of industrial machinery
- Assess current equipment health and predict potential issues
- Send information plant-wide and to enterprise databases for storage and trending
- On-staff Automation Engineers and Certified Vibration Analysts can design an effective instrumentation network to acquire relevant and accurate vibration data, and properly configure a frequency-based alarm profile for each piece of rotating equipment in your facility

**GET INSIGHTS INTO YOUR EQUIPMENT'S
PERFORMANCE WHENEVER AND WHEREVER
YOU NEED THEM.**

WE'RE PROUD TO SERVE A MULTITUDE OF CUSTOMERS AND INDUSTRIES.

From other repair shops and hydroelectric power plants to heavy manufacturing, municipal water facilities, and elevator manufacturers, we're here to work with our customers to repair, replace, test, cast, or consult.



INDUSTRIES SERVED

HYDROELECTRIC POWER GENERATION

IN-HOUSE

- Hydro generator repair, rewind & testing
- Large capacity replacement parts machining/fabrication
- Turning & milling (up to 72" diameter, 31' length)
- Replacement parts (oil & collector rings, brush holders)
- Foundry services

REPAIR SHOPS

- Large-scale job capabilities
- VPI services
- Large burnout oven
- Pre-wound coils
- Load testing
- Rebar rotors
- Machine & fabrication
- Shaft repair & manufacturing (up to 72" diameter, 31' length)
- 300 ton press

SERVICES FOR ELEVATOR MANUFACTURERS

- DC motor repair
- Motor & generator set repair
- Bearing replacement
- Gearbox & sheaves repair
- Onsite repair consulting
- DC to AC conversions

ON-SITE


- Generator inspection
- Rewind
- Dry ice cleaning
- Hipot & voltage drop testing
- Engineering consultation
- Stator lamination restack
- Static exciter conversion
- Breaker, transformer & relay testing
- Vibration monitoring
- Plant automation

HEAVY MANUFACTURING

- AC/DC motor repair & testing (up to 10,000 HP)
- Turning & milling (up to 72" diameter and 31' length)
- Onsite rewind services
- New motor sales
- Vibration analysis
- Hipot/surge testing
- Sleeve bearings
- Hoist & rigging inspection/compliance
- Gearbox repair
- Balancing (up to 10 tons)

SERVICES FOR MUNICIPAL WATER

- Pump repair
- Valve repair
- Hipot/surge testing
- Vibration analysis



HAVE A PROBLEM YOU CAN'T SOLVE? JUST ASK JENKINS.

We're always here to help. Call, email or click for the answers you need or for help collaborating on a solution.

INFO@JENKINS.COM
800-438-3003

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