



**Southwest Electric Co.**

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# **Company Overview**

## ***Booth #34***

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**Southwest  
Electric Co.**



## Who is Southwest Electric?

- ✓ Oklahoma City Based Company
- ✓ Established in 1946 – *71 years old!*
- ✓ Independent Supplier of Electrical Repair, Maintenance, Remanufacturing & Custom Manufacturing Services
- ✓ Private, Stable Ownership



# Southwest Electric Co.

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## Ohio Switchgear Center

### Capability

- Vendor independent – use any major manufacturers' components
  - ABB, Eaton, GE, Powercon, Square D, SEL
- Specialize in Custom Designs
  - 600V – 38kV, Indoor and Outdoor
  - Steel, Aluminum, or Stainless Enclosures
  - Match – in- Line Additions, Non-Standard Dimensions
  - Engineering Value-Add – Offer Solutions to Challenges
- Commitment to Quality and Performance
  - Design to IEEE Standards – 3<sup>rd</sup> Party Labeling Available
  - Competitive Lead times, plus Expedited Shipment





## Ohio Switchgear Center

### Arc Flash Mitigation Capability

- Visible-disconnect load-break switch, coupled with vacuum circuit breaker and relay protection
  - Microprocessor relaying allows flexible settings for quick, coordinated clearing time
  - Reduces potential incident energy, reducing arc flash protection boundary distance and required PPE
- Metal-enclosed, front-access design allows reduced footprint, easier coordination to existing gear
- Fixed mount or draw out breaker option
- Custom dimensions available to best utilize existing cables and conduits, reducing installation costs





# Southwest Electric Co.

## Field Services

### Capability

- Focus on industrial electric and utility customers
- United States from Arizona to Maine, Florida to Dakotas
- Staff of 40+ technicians
- Fleet of 25 trucks
  - 2, semi-trailer oil processing rigs
  - 2, 40' box truck oil processors
  - 2, trailer based oil processors
  - SF6 breaker service trailer
  - 19 other work trucks in fleet
- Doble®, Omicron®, Manta®, Megger® diagnostic equipment, I/R scanners, etc.
- New, used & refurbishment of components
  - Transformers, Regulators
  - Breakers / Switches
  - Other protection and automation equipment





# Southwest Electric Co.

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## Field Services

## Industrial Services

- Inspection, troubleshooting, testing, maintenance, repair and modernization of a broad range of protection & control equipment
  - Transformers, unit-substations, motor control centers
  - Switches, breakers, starters, metering & communication
  - Protective relays and trip units
  - Up to 34.5kV class, air, magnetic or vacuum
  - Acceptance testing of high voltage cable
- Installation and commissioning services
- Modernization & up-fitting of components or sections
- In shop repair and reconditioning of equipment and hard-to-find components
- Sale of new & used components



Primary Injection Testing



# Southwest Electric Co.

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## Nationwide Motor Field Services

### Predictive Maintenance

- Vibration Analysis
- Field Balancing
- Laser Alignment
- MCE Testing with PdMA®

### On-Site Services

- Turnkey Projects
- Commutator & Slip Ring Turning
- Cryogenic Cleaning

### Asset Management Services

- Climate-controlled, vibration-free storage
- Heated cores
- Quarterly rotor turn with MCE test
- Assets tagged with quarterly reports
- Spares ready-to-ship 24 x 7



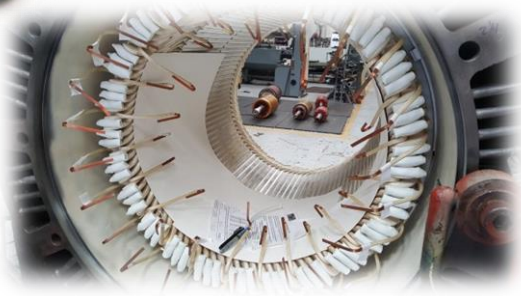


# Southwest Electric Co.

## Nashville Motor Service Center

### Capability

- 1,000 kVA Test Center to 7kV
- Full Machine Shop with lathes to 56"
- 15,000# Dynamic Balancer
- 2,000 HP, 1,800 RPM  
Water Brake Dynamometer
- Redesign and upgrade capability
- New / Used Equipment
  - Motors & Generators
  - Transformers
  - Other rotary equipment







# Southwest Electric Co.

## Oklahoma City Motor Service Center

### Capability

- 100,000 ft<sup>2</sup> production + office space
  - Test Center up to 13.8kV
  - Full Machine Shop with lathes to 80"
  - 30,000 lb. Dynamic Balancer
  - Up to 20,000 HP, AC & DC Motors
  - Dynamometer, vibration analysis
  - Redesign and upgrade capability
- 
- New / Used Equipment
    - Motors & Generators
    - Transformers
    - Other rotating equipment





# Southwest Electric Co.

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## Specialty Transformer Business Unit

### Custom Design Options

- **25 kVA** single phase through **7,500 kVA** three phase
- **380 V** through **69,000 V** class
- Designs for non-standard frequency
- Designs for high harmonic conditions
- Choice of di-electric / insulating fluid
- Designs for extreme ambient temperature conditions
- Paint systems for severe environments
- Designs for high altitudes
- Designs for hazardous locations
- Special controls and gauges





# Southwest Electric Co.

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