

Charlotte Service Center

ABB Electrification Distribution Solutions



The Charlotte Service Center features on-site and in-shop service for motor, generator, and switchgear repairs. With access to the global network of ABB Service Centers, Charlotte is truly your total repair solution.

Transformer Services

- All manufacturers
- On-site testing & maintenance
- Dielectric fluid testing
- Monitoring design installation
- Replacement parts

Key Capabilities

- 5000 KVA Motor Test Set (13.8 KV)
- 10 ft VPI tank
- Lathe: 130" dia x 420" long
- Vertical mill: 144" dia x 120" high
- Horizontal mill: 6 tons
- Press: 500 ton (horizontal)
- Dynamic balancing: up to 30 tons
- Overhead crane capacity: 50 tons
- Induction heater
- Abrasive blast booth: 10'x10'x30'

Locally specializing in:

- AC & DC Motors & Generators
- Switchgear & Circuit Breakers
- Mechanical Components

Additionally, we are a part of a national network of service centers that can meet all of your repair needs for: Off-highway vehicles, steam turbines, HD generators, control boards & transformers.

Electric Motors and Generators Repair and Services

- All manufacturers, all sizes
 - 480V to 13,800V
 - AC motors all types
 - DC motors
 - Industrial generators
- On site and in shop capabilities
- Basic overhauls clean and inspect
- Complete rewinds and HP uprates
- Star punched rotor rewinds
- VPI (Vacuum Pressure Impregnation)
- Electrical & mechanical testing
- Insulation system upgrades
- Load testing
- Replacement parts
- Predictive maintenance: vibration analysis, infrared analysis, laser alignment
- Equipment management programs
- Failure analysis
- On-site motor diagnostics
- On-site cleaning with dry ice



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01 Reconditioning a
large DC armature
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02 AKR 100 overhaul

Switchgear, Circuit Breakers Repairs and Services

- All manufacturers: 480V (LV) to 15kV (MV) breakers, starters & contactors
- Repair solutions — minor repairs to complete overhauls with warranty
- Loaner circuit breakers
- Arc flash mitigation solutions
- Onsite total substation maintenance
- Primary & secondary injection
- Low voltage solid state conversions to Entelliguard® trip unit
- Legacy breaker retrofits to modern solution — Entelliguard R, PowerBreak II
- Medium voltage vacuum retrofits
- Limitamp™ motor starter maintenance and vacuum conversions
- Power management system retrofits
- Diagnostic testing and evaluation
- Ground potential testing onsite
- Doble power factor testing
- Site battery maintenance
- Thermography inspection (IR)



02

Mechanical repair and services

- Refiner repairs for paper mills
- Pumps: vertical, centrifugal
- Boiler feed pumps
- Lube oil pumps
- Compressors
- Centrifuges — centrifugal, vertical
- Blowers
- Crushers/Excavators
- Screw presses/feeders/fans
- Gears and gear boxes
- Babbitt bearings
- Balancing (rolls, rotors, etc.)
- Laser alignment
- Welding
- General machining
- Nondestructive testing
- Metallurgical sampling
- Process machine rebuilding
- Component remanufacturing / upgrading
- Abrasive blast cleaning (sand, glass bead or dry ice)

Contact us:
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For more information on the ABB Charlotte Service Center or to answer any questions you may have, contact us at us-charlotteservicecenter@abb.com

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