

BRANDON & CLARK, INC.

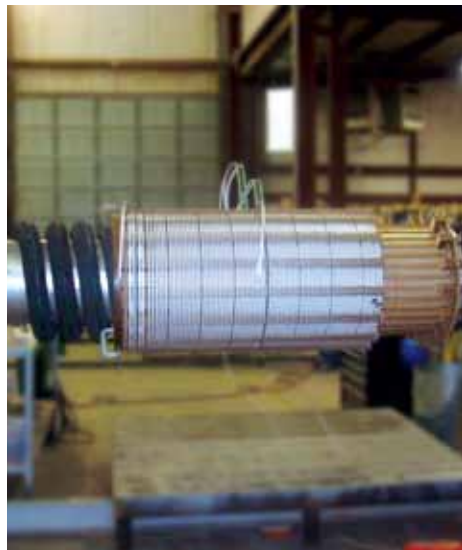
POWER TRANSFORMER



COPPER WINDINGS

All Brandon & Clark mobile power transformer windings are produced using copper conductor and nomex or dennison wrap insulation. Our materials selection philosophy is: use the highest quality materials in the repair or redesign of equipment. This philosophy enables us to help customers avoid unnecessary losses and maximize the life of their equipment.

Brandon & Clark also has experienced on staff engineers that are capable of converting your mobile transformer from aluminum windings to copper windings. Copper windings offer advantages in transformer losses and mechanical strength which is particularly important for industrial applications where large motor starting loads are present.



ENVIRONMENTALLY FRIENDLY

Since 2005, Brandon & Clark has offered their customers the option to fill and retro-fill their electrical equipment with an environmentally and EPA approved fluid called FR3™.

FR3™ fluid is made from food grade seed oils and food grade performance enhancing additives which makes it completely biodegradable. This fluid also extends the life of your insulation and is fire resistant. When FR3™ fluid is used you and the environment win.

CAPABILITIES AT A GLANCE

- Repair-Rewind-Recondition-Redesign
- High Standards: IEEE & ANSI Design & Testing
- 24 Hour On-Call Field Service Staff
- Expedited Delivery Options
- FR3™ Fluid & Mineral Oil
- Upgrade Kits Available
- Conversions from Rectangular to Continuous Disc Windings
- Brandon & Clark Repairs Always Include:
 - New Vacuum Pressure Hot Oil Fill or FR3™ Fluid
 - New Copper Windings
 - Oven Dehydration
 - Check of All Gauges & Pressure Devices
 - High Quality Polyurethane Paint That is Designed to Prevent Rust & Corrosion
- Doble® Testing
- Control Repair
- Clean, Climate Controlled Winding Facility
- OLTC Repair
- All Brandon & Clark, Inc. Units Are Filled Using Vacuum Filling Technology
- Experienced Design Engineers
- Power Transformer Field Service Team
- Capable Up to 30 MVA
- 161kV/650kV BIL Designs

DOBLE® TESTING

Using Doble® technology and the DTA database, we are able to give immediate analysis of the device under test. Brandon & Clark can analyze and compare your test result against industry results, to distinguish emerging trends. Each device name plate and test history is then located in one record, improving the efficiency of testing and evaluation of results. The advantage of power factor testing is that the testing is repetitive and will break down a piece of equipment into sections to determine the exact location of electrical breakdown. The pinpoint accuracy that a Doble® test can provide you cannot be achieved by using an insulation resistance test.

What does Doble® testing include?

- Excitation current testing to evaluate the transformer magnetizing circuit
- Power factor testing to confirm insulation integrity and quality
- Capacitance testing to measure physical changes that may have occurred to the apparatus
- Turns ratio testing to detect shorted turns or winding damage
- Capacitor bank testing detects deteriorating or failed capacitors within a bank.
- Doble® bushing testing (C1/C2, hot-collar) that helps to determine individual bushing health

Brandon & Clark has a dedicated testing and field services team of Doble® trained engineers and technicians to test and evaluate your equipment in the field or in the shop.



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“KEEPING INDUSTRY HUMMING SINCE 1950.”

Lubbock, TX - 800-289-2224 • 806-771-5600

Odessa - 800-999-1943 • 432-332-0163

Lubbock - Transformer Division - 806-771-5688

Ft. Worth - 877-638-5593 • 817-838-5593

Hereford - 800-692-4718 • 806-364-5470

Hobbs, NM - 800-222-3890 • 575-392-7561

VISIT US ON THE WEB: WWW.BRANDONCLARK.COM