



**BRANDON & CLARK, INC.**

# MOTORS



## **CRITICAL MOTOR STORAGE & MAINTENANCE**

Brandon & Clark is committed to helping customers keep their critical spare motors in a ready to use status. As part of that commitment, Brandon & Clark has dedicated a warehouse solely for the purpose of critical spare motor storage. While your critical spare motor is being stored in our facility the motor's windings are tested periodically to ensure electrical integrity, shafts are rotated if applicable, PdMA testing is completed routinely, and space heaters can be energized if necessary.

Motor storage and maintenance ensures the reliability of all spare motors as well as alleviating space and handling requirements at the plant site.

**Spare motors are available for shipment 24 hours a day, seven days a week.**

## **CAPABILITIES**

From small specialty motors to large industrial motors, Brandon and Clark, repairs thousands of motors annually. Our capabilities include low (230/460v), medium (2300/4160v) and high (13,800v) voltage motors up to 11,000 hp.



Brandon and Clark rewinds all motors with Class H insulated copper wire and we utilize our 96" Vacuum Pressure Impregnation (VPI) system to apply epoxy based electrical varnish to help protect the integrity of your motors windings. VFD/ Inverter Duty Spike resistant wire is used on all random wound motor rewinds.

We offer electrical motor infield services for vibration analysis, motor/load laser alignment, thermal imaging, motor installation, PdMA, and dry ice motor cleaning.

## **FACTORY CERTIFIED TECHNICIANS**



Brandon & Clark is committed to insuring that your equipment receives the best service and repair possible while at our facility. In order to accomplish our goal of excellence, our technicians are sent through technician certification courses to ensure that they are up to date on the latest advances in the industry.

## CAPABILITIES AT A GLANCE

- Rewind-Recondition-Redesign
- In House UL Certification
- Rotating Fields
- Replace Shaft In Motors
- Full Service In House Machine Shop
- In House Welding & Fabrication
- Install RTD
- Replace Bearings
- Vacuum Pressure Impregnation (VPI) Of All Windings
- Baker Hi-Pot Testing
- Vibration Analysis
- Phenix Testing That Includes Infrared Thermography
- Megger Testing
- Vertical Hollow Shafts
- Vertical Solid Shafts
- Synchronous Motors
- Thermal Imaging
- Motor Balancing
- Full Field Service Capabilities
- Motor & Load Laser Alignment
- Zonic® Vibration Fingerprinting
- Pdma Testing & Trending
- Failure Analysis
- Critical Motor Storage
- Motor Management
- Temperature Controlled Burn-Off Ovens
- Efficiency Analysis
- NEMA Motors
- Dry Ice Motor Cleaning

## FACILITY

Brandon and Clark is an explosion proof UL listed repair facility. Our in-house machine and fabrication shop includes a vertical mill and an engine lathe that can handle up to a 54" swing. We have 25 tons of hoisting capabilities and dynamic balancing capabilities up to 15,000 lbs. Many of our locations are equipped with a clean climate controlled winding facility that helps to insure our windings are of the highest quality.



## EASA MEMBER

Brandon and Clark has been a member of the Electrical Apparatus Service Association since 1953.

## QUALITY ASSURANCE

With quality as our goal, we perform the following tests:

- Phenix® loss/core efficiency analysis supplemented with infrared thermography
- 3 Phase winding analysis:
  - Winding resistance balance
  - NEMA MG-1
  - Insulation resistance (Meg Ohm) IEEE 95, IEEE43
  - Polarization Index IEEE 43
  - Baker® DC High Potential (Hipot) IEEE 95, IEEE 43
  - Surge IEEE 522

- Spike energy acceleration
- Zonic® vibration fingerprinting
- Full alignment capabilities
- Full voltage run test up to 13.8 kV
- Detailed failure analysis- full motor history record
- Predictive maintenance assessment testing and trending (PdMA)
- Doble® testing

## SALES

Brandon & Clark is a representative for Toshiba, US Emerson Motors, TECO Westinghouse, Siemens, Leeson, Lafert, A.O. Smith, Baldor, ABB and many others.



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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**

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