



ENGINEERED SERVICES DIVISION

Drive Sales, Motor Testing, Switchgear Service, VFD Drive and Servo motor repair



Variable Frequency Drives

- Baldor Reliance
- TECO Westinghouse
- WEG
- Vacon
- Yaskawa

MCE & Emax Motor Testing Shaft Voltage Testing and Repair

- Offline De-energized MCE Testing
- On-line Live Emax Testing
- From Drive terminals to motor
- Meg to Ground, Polarization Index, Resistance Imbalance, Induction Imbalance, and Capacitance Check
- Aegis Shaft Voltage Testing and Aegis Bearing protection kits

Switchgear Services

- Full Service and Repair on Switchgear
- Motor Starters, Motor Controllers
- Contactors, Tap Changers, Breakers
- Voltage Regulators, Injection Testing
- Transformer Services, Low & Medium Voltage
- Emergency Service

- Variable Frequency Drive Sales
- AC/DC Drives
- Medium Voltage Drives
- Motor Circuit Evaluation (MCE) Testing & Reporting
- Emax Online Live Motor Survey Testing & Reporting
- Drive Cable Sales
- Drive Service and Repair
- Switchgear Cleaning, Testing, & Repair
- Shaft Voltage motor Testing and Repair
- Emergency MCE, Emax and Drive Sales



VFD Drive Services

- Drive Evaluation and Repair
- Repairs all brands and sizes
- Installation on new Drives
- Special VFD Cable for new or existing drives
- Drive Panel Fabrication, bypass, contactors, breakers and VFD installs

Servo motor Sales, Diagnostics & Repair

- 3 phase AC Induction
- DC Brush Type
- Brushless Servo (AC/DC)
- Stepper Motors
- Testing on Encoders, Hall Effect Sensors, Resolvers, Tachometer Generators
- New Servo Motors by Reliance

Contact Jay Engineered Services at:

800-844-1380

205-791-0206 Office

205-791-0952 Fax

205-552-2992 Cell, Jack Joyner jackj@jayelectric.com



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Variable Frequency Drives are our specialty at Jay Engineered Services. With better control, energy savings, and motor longevity, we can get you the right drive for any application. We carry HVAC, Pump, Industrial, Starter type, Constant Torque and Variable Torque drives in stock ready for you. With a wide selection of brand names we can offer everything from a 0.25 hp up to 7000hp drive. Jay Engineered Services can also get you that special medium voltage drive, transformer and switchgear. We also offer the best in VFD Cable for your application, with specialty cable up to 200hp, for long runs and voltage spikes. VFD cable is also available with one or two control pairs, and is TC-ER rated, NFPA 79 compliant and UL/CSA/CE approved.

Jay's Motor Circuit Evaluation, Emax testing and Shaft Voltage tests should be the top priority for any facility with a critical motor application. The best question we can ask is how much will the next motor failure cost your facility in down time, \$10,000, \$50,000 or more? With electrical faults responsible for nearly 50% of all motor failures, taking a proactive approach to these problems becomes a necessity. Motor Circuit Evaluation is a predictive maintenance technology which provides comprehensive, portable motor testing. MCE allows you to test deenergized electric motors, large or small, AC or DC, and determine the condition of the motor and its associated power circuit in a short period of time. The data is immediately stored for trending, comparison and report generating. The MCE tester allows us to perform condition-based maintenance rather than time-based maintenance. This prevents costly motor failures and unnecessary maintenance. Often times it is not possible to shut down a motor to perform MCE testing, and that is where Emax can do the job. Our Emax testing enables the motor to be tested while the motor is still live in process. We are able to look at many different electrical values within the motor and offer a comprehensive motor report for each motor tested under MCE or Emax. Our Aegis Shaft Voltage test and repair kits will help save and preserve bearings in any application.

Our Switchgear Services offer full cleaning, testing and repair on all components of switchgear. We are able to check, test and rebuild all types of motor starters, motor controllers, contactors, tap changers, plus oil and air breakers. Our technicians can perform transformer work for oil changes, oil filters, and seal repair. We also have on site testing and emergency service for those critical plant applications. Jay Engineered Services is able to work on low, medium and high voltage circuit breakers and conduct primary and secondary injection testing.

Jay Engineered Services is also a full VFD Drive Repair facility. We can test and evaluate you faulty drive and either repair or offer you a compatible replacement. We service all brands and sizes and can even install that new drive and cable if needed. We have factory trained technicians, and the right tools to test and repair your drive.

Servo motor Repair has become increasingly needed and Jay can offer full servo testing and repair. We are able to offer repair and rebuild on most types and brands of servo motors. Our technicians can work on 3-phase AC induction, DC brush type, brushless servo (AC/DC), stepper motors and linear motors. We can also test and set feedback devices including incremental encoders, serial encoders, hall effect sensors, resolvers and tachometer generators. We also offer new Servo motors from Reliance.

Please call for more information to see what Jay Engineered Services can do for you.

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