

SETTING THE STANDARD



# FLANDERS ELECTRIC

901 Harrison Road • Longview, Texas 75604 • 903-759-9439 • Fax: 903-297-9939

INDUSTRIAL MOTOR REPAIR AND SALES • COMPLETE MACHINE SHOP



*Horizontal millwork includes repairing stator registers and facing stators.*



*Brush ring mounts being machined on a large generator frame.*

# FLANDERS

## A TRADITION OF EXCELLENCE

Flanders Electric, with 60 years of experience, is one of the leading motor repair companies in the United States. The company offers comprehensive engineering and technical services to its customers, as well as complete motor repair and maintenance.

Flanders Electric has facilities in the following locations to better serve its customers and to provide faster response time from anywhere in the country:

- Evansville, Indiana
- Longview, Texas
- Marion, Illinois
- Casper, Wyoming
- Lakeland, Florida

Flanders Electric serves customers in a variety of industries including utilities and power, mining,



*The Flanders machine shop includes a complete Babbit bearing facility.*



*Flame spraying bearing fit with wire feed cool spray system.*

# ELECTRIC

chemical, petroleum, lumber and paper mills, general manufacturing, metals, plastics, and agriculture. Flanders has a well-earned reputation for fast response and quick turnaround time for all applications.

Flanders' highly trained employees maintain a positive, can-do attitude that makes the difference. Flanders doesn't just meet customer expectations ... we exceed their expectations. We put our name and reputation on every job. That's the Flanders tradition of excellence.

Our Longview, Texas facility has more than 40,000 square feet of air-conditioned and heated shop space located on 40 acres with an 11,500 square foot warehouse, a 4,000 square foot utility facility, and 22,000 square feet of motor storage.



*Machinists mic the outside diameter of a 6,000-hp rotor.*



*Our 1,000-ton horizontal press pushes a shaft out of a 622 armature.*





*8' epoxy VPI system, 5' polyester VPI system, and 12' x 8' dip tank with epoxy overdip resin.*

## **Complete In-House Machine Shop**

Flanders Electric performs all facets of each repair project to ensure total quality control and fastest turnaround. Flanders offers complete Babbitt bearing repair, machine shop engineering, and technical support with updates on repair status. Our Longview facility is equipped with:

- Full Voltage Testing Through 6,900 AC
- Controlled Temperature Burn-out Ovens
- Controlled Temperature 12' x 16' Bake-out Ovens
- 900 HP Dynamometer Capability
- High Potential Testing up to 25,000 Volts
- Megger Testing up to 5,000 Volts
- Thermography Testing
- Ultrasonic Testing
- CSI Real Time Vibration Analysis Equipment
- On-site Motor Service
- Horizontal and Vertical Boring Mills up to Travel (L) 80" (W) 70" (H) 65"
- Balancing up to 30,000 pounds
- Vacuum-Pressure-Impregnation (VPI), Epoxy and Polyester
- Epoxy Varnish Dip Tank
- 1,000-Ton Hydraulic Press
- One 30-Ton Bridge Crane
- One 20-Ton Bridge Crane
- One 10-Ton Bridge Crane



*All armatures are thoroughly tested to assure quality.*



*Armature being prepared for vacuum-pressure-impregnation.*



*Performing core loss test on a large AC stator.*



*An armature is TIG welded in the Flanders welding and fabrication department.*

*A technician tapes connections on a 3,500-hp synchronous stator that runs at 6,600 volts.*

## Repair Capabilities

Flanders Electric is a factory authorized repair center for many major motor and generator manufacturers. The company is committed to quality, efficiency, and rapid turnaround on all repair opportunities, whether in-house or in the field. Our mechanics and engineers provide accurate and prompt diagnoses on recommended repairs. Customers receive project status reports throughout the repair process to ensure the highest standards of quality and reliability.



*A service technician winds a DC armature.*



*Flanders 6,900 volt test panel and isolation pad.*



*Field coils inspected on a DC motor.*



*Flanders removes and rebuilds motor coils with very little downtime for the consumer.*



*Armatures are stripped with care to ensure the highest quality.*

## **Motor Rewinding**

Initial testing and inspection determine whether a motor should be replaced or repaired. When repair is required, the rewinding process begins. After stripping, cleaning and further testing, replacement coils are manufactured and installed. Flanders uses Class H rating insulation on coils when only a Class F is required to provide maximum longevity in the most severe applications.

## **Field Services**

Specializing in on-site services in a variety of industries, Flanders field engineers and service technicians provide technical support and repair services, including:

- Installation and Start-up
- Predictive Maintenance
- Preventative Maintenance
- Laser Alignment and Vibration Testing
- Troubleshooting and Repair
- On-site Reconditioning and Dry Ice Blasting
- Thermography Testing
- Megger Testing up to 5,000 Volts
- MCE Testing



*An infrared camera is used to determine hot areas on rotors and stators.*



*The Flanders truck fleet is capable of transporting even the largest job to our shop from any customer location.*

## New Motor Equipment Sales

Flanders Electric is a distributor for Siemens, Toshiba, Reliance Electric, Marathon Electric, and WEG. Flanders sells electric motors to meet the needs of its customers, and its fleet of delivery vehicles is on call day and night to respond in minutes to customer needs. The company's highly trained personnel are also available to provide technical assistance.



*Flanders Electric has more than 40,000 square feet of workspace.*



*The air gap on a 1,250-hp AC motor is adjusted.*

## The Flanders Advantage

Our reputation for efficient, reliable, and cost-effective service has made us the electric motor service company of choice for companies throughout the United States. It's what we call the **Flanders Advantage**. Put us to work for you.

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*“Serving the Nation Since 1947”*

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(903) 759-9439 • Fax: (903) 297-9939

[www.flanderselectric.com](http://www.flanderselectric.com)



## CORPORATE HEADQUARTERS

8101 Baumgart Road  
Evansville, IN 47725  
(812) 867-7421  
Fax: (812) 867-2687

## FLORIDA

2701 South Combee Road  
Lakeland, FL 33803  
(863) 510-0555  
Fax: (863) 510-0550

## ILLINOIS

1000 North Court Street  
Marion, IL 62959  
(618) 993-2681  
Fax: (618) 993-6081

## WYOMING

3245 Salt Creek Highway  
Casper, WY 82601  
(307) 327-4099  
Fax: (307) 237-4098