



Industrial Electronics Distributor & VFD Repair Experts

Precision Electric, Inc. is a leading industrial electronics distributor and **variable frequency drive (VFD) repair** service provider with over 40 years of experience (est. 1983). We supply and support manufacturers, OEMs, and industrial facilities across the United States, keeping their operations running smoothly. Our team of engineer-led technicians specializes in **industrial automation equipment** – from **AC drives and motors** to complex control systems – delivering both new product solutions and expert repair services. We pride ourselves on technical accuracy, fast turnaround, and customer service that's available 24/7 with no voicemail runaround. Whether you need to **buy a new drive or get a critical motor back up and running**, Precision Electric is your one-stop partner for reliable industrial solutions.

Need help fast? We offer multiple convenient ways to get service: [Request a Free Repair Quote](#) (with an instant online packing slip for sending in equipment), call our 24/7 support line at [574-256-1000](tel:574-256-1000) to speak directly with an engineer, or [browse our product catalog](#) for immediate purchases. Our goal is to minimize your downtime – **contact us anytime** and experience the Precision Electric difference!

Variable Frequency Drives (VFDs)

We are **authorized distributors of AC variable frequency drives** from top manufacturers, offering a wide selection of VFDs (also known as variable speed drives) for all horsepower ranges and applications. From compact **microdrives** to heavy-duty industrial drives, our inventory covers popular series like ABB and Yaskawa, among others. For example, we carry general-purpose drives such as the [ABB ACS580](#) and Yaskawa GA500 microdrives – known for their efficiency and reliability. Not sure which drive you need? Our engineers can help you select the right VFD to optimize your motor speed control, improve energy savings, and ensure compatibility with your system. All **new drives** come with manufacturer warranties and our in-house support for programming and startup. **Internal link to products:** Check out our [Variable Frequency Drives selection](#) to find the right drive for your needs, or contact us for guidance on VFD sizing and installation.

Phase Converters

Precision Electric also specializes in **phase conversion solutions** to get the power you need. We offer **rotary phase converters** and **static VFD-based phase converters** that reliably convert single-phase power to three-phase for running industrial machines. Our [Phase Converters](#) include trusted models for CNC equipment, pumps, HVAC systems, and other applications where utility three-phase is unavailable. Not only do we distribute high-quality converters, but we also provide repair services for phase converter units (rotary and electronic types alike). If your converter is malfunctioning or your facility requires a custom power setup, our team can advise on the best solution. We ensure your phase converter is properly sized and tuned so your three-phase motors run smoothly and efficiently. **Internal link:** Browse our range of [Phase Converters](#) or ask about on-site evaluation for your power conversion needs.



AC Motors

As a full-service industrial electrical supplier, we provide **AC electric motors** for virtually any application. Our offerings include general-purpose motors, pump motors, servo and spindle motors, and specialty HVAC and inverter-duty motors from leading brands (such as Baldor, Leeson, Marathon, and more). Whether you need a **replacement motor** for a critical piece of equipment or are designing a new system, we can source the right horsepower, RPM, voltage, and enclosure type to match your requirements. All motors we supply meet **NEMA standards** for performance and efficiency – ensuring interchangeability and reliable operation ¹. In addition to new motor sales, Precision Electric has extensive motor repair capabilities (see **Repair Services** below). Our motor shop can rewind, rebuild, and dynamically balance AC motors to extend their life. By offering both new [AC Motors](#) and refurbishment options, we help you choose the most cost-effective path – repair or replace – to keep your operations running. **Internal link:** View our [AC Motors catalog](#) or contact us to discuss which motor solution is best for you.

Industrial Repair & On-Site Services

When equipment fails, **Precision Electric's repair team** mobilizes to minimize your downtime. We provide both **in-house repairs** at our 32,000 sq.ft. facility in Indiana and **on-site services** at your plant when needed. Our expertise spans all kinds of industrial electronics and electrical machinery: **AC drive repair, DC drive repair, servo drive repair, AC/DC motor rewinding**, PLC and circuit board repair, pump and fan rebuilds, and more. Most repairs start with a *Free Evaluation* – simply fill out our online form to generate a packing slip and send in your item for a no-obligation assessment. Our technicians will diagnose the failure, then provide a detailed repair quote for your approval. (If you prefer, we can also come on-site for larger systems or urgent troubleshooting.)

Key features of our repair services:

- **Fast Turnaround:** We know downtime is costly, so we strive for quick repairs. Standard turnaround gets you back up within days, and **24/7 emergency rush service** is available for critical failures. (In true emergencies, we've performed overnight repairs to get a production line running by the next day.)
- **Value & Savings:** Repairing your existing equipment can save you **up to 70%** of the cost of buying new, and we aim to maximize that ROI ² ³. We only fix what's necessary and address root causes to prevent repeat issues. If a unit is beyond repair or not economical, we'll advise replacing it – honesty is part of our service.
- **On-Site Support:** Our field service engineers can travel to your location for tasks like drive troubleshooting, installation and startup assistance, laser alignment, **vibration analysis, infrared thermography** surveys, and preventive maintenance programs. We'll work around the clock on-site to get your machinery back online safely.

From a small **AC motor repair** to a complex **automation system retrofit**, Precision Electric's repair services are geared to **minimize your downtime and extend the life of your equipment**. **Internal link:** Ready to get started? [Request a free repair quote](#) and ship us your equipment, or call us for immediate on-site service dispatch.



Technical Capabilities & Quality Standards

We maintain the highest service standards in the industry, ensuring that every repair and product we supply meets or exceeds OEM specifications. **Our technical capabilities include:**

- **Factory-Trained, Certified Technicians:** Precision Electric is **EASA-accredited** (Electrical Apparatus Service Association) for motor repairs and employs experienced engineers for drive and electronics servicing. Our team stays current with manufacturer training and industry best practices. We are an authorized service center for many major brands – handling everything from Allen-Bradley PLCs to [Yaskawa drives](#) – which means we use proper procedures and genuine parts whenever available.
- **Comprehensive Diagnostics & Testing:** Each unit we repair undergoes thorough diagnostics, including component-level testing and full functional testing under load. For VFDs and drives, we test with motors to verify output performance and check all operating parameters. Motors are run-tested and vibration-checked. Our advanced diagnostic tools (oscilloscopes, megohm testers, IR cameras, etc.) allow us to pinpoint issues that others might miss, ensuring **reliable repairs** that last.
- **Warranty & Standards Compliance:** All of our repairs come with a **12-Month In-Service Warranty**, meaning the clock starts only when your repaired item is back in operation – not when it leaves our shop ². This warranty reflects our confidence in the quality of our work and parts. We also adhere to relevant **NEMA and IEC standards** during repairs and rebuilds for safety and performance. (For example, motor rewinds follow the **NEMA MG1** guidelines for insulation and testing ¹, and drive repairs comply with IEC 61800 practices for adjustable speed drive systems.) Our facility is equipped and audited to high standards, and we're proud of our **A+ rating with the BBB** and longstanding reputation for excellence.

In short, Precision Electric combines deep technical know-how with rigorous quality control. From initial **failure analysis** to final QA inspection, we make sure the equipment you get back is **fully restored, tested, and safe** to put into production. *When you entrust us with a repair, you can have peace of mind that it's done right.* If you have specific technical questions or require documentation, our team is happy to provide repair reports, test results, and support information for every project.

Real-World Success Stories

Over the decades, we've helped countless clients solve urgent problems and improve their operations. Here are a few anonymized examples that illustrate the **value of our services** in action:

- **Manufacturing Plant Avoids Downtime:** A Midwestern pulp & paper facility faced aging drive units (20 older ABB VFDs controlling critical motors). Working with Precision Electric, they proactively upgraded those drives to newer models (from ABB ACS550 to the modern ACS580 series) during a planned maintenance shutdown. The result? Unplanned drive failures dropped by 76%, and the plant repurposed the old drives as emergency spares ⁴ ⁵. When one of the new drives did eventually fault unexpectedly, a backup unit was already on the shelf and production continued with **minimal downtime**. This strategic repair-and-replace approach – combined with keeping spares on hand – dramatically improved the plant's uptime.
- **Bottling Line Stays Running:** During the 2022 global semiconductor shortage, a beverage manufacturer couldn't afford any VFD failure on their high-speed bottling line. At our recommendation, they purchased a **Yaskawa GA500 drive** as a contingency spare and pre-configured it for their system. Sure enough, a few months later the main line drive failed, but the on-



site maintenance team swapped in the spare GA500 within minutes, **preventing a costly shutdown**. In the meantime, the failed drive was sent to Precision Electric for rush repair. We fixed the drive (replacing a blown IGBT module and cooling fan) and returned it as a now-ready spare. By planning ahead with a spare and fast repair service, the client kept their production on track despite the supply chain crunch.

- **Emergency Motor Repair Saves Thousands:** A plastics manufacturer on the West Coast experienced a sudden 100 HP **AC motor** burnout that halted a critical process. They shipped the motor overnight to Precision Electric. Our motor shop performed an **expedited rewind**, replaced bearings, and tested the motor on a dyno – all within 48 hours – then flew it back to the customer. The line was up and running in just a few days. The maintenance manager estimated this rapid turnaround **saved over \$50,000** in lost production compared to waiting weeks for a new motor. It's a testament to how our combination of **experience, speed, and coordination** turns potential disasters into manageable maintenance events.

(These are just a few examples – whatever your situation, we've likely seen something similar and can provide a solution to meet your needs!)

Why Choose Precision Electric?

When you partner with Precision Electric, you benefit from our unique blend of experience, customer service, and technical skill. Here are some key reasons clients trust us as their go-to **industrial electronics partner**:

- **24/7 Live Support – No Voicemail:** You'll always reach a live expert when you call. Our support line ([574-256-1000](tel:574-256-1000)) is manned around the clock by knowledgeable staff. We understand emergencies can happen at any hour, so we're ready to assist anytime – day, night, weekends, and holidays. No frustrating phone menus or unanswered voicemails – **personal service is our standard**.
- **Engineer-Led Service:** Our company is run and staffed by engineers and certified technicians, not just salespeople. This means when you talk to us, you're speaking with someone who genuinely understands the technology. We listen to your technical problems and can often diagnose issues or recommend solutions on the spot. From sizing a VFD to troubleshooting a fault code, **experienced engineers guide you** at every step.
- **U.S.-Based and Family Owned:** Precision Electric is proudly based in Mishawaka, Indiana, and has been family-owned since our founding. All repairs are performed in the USA at our own facility – we do not outsource your critical equipment to third parties. Our team's Midwestern work ethic and pride show in everything we do. As a smaller business, we value every customer and build relationships for the long term. You can expect honest advice, fair pricing, and a genuine commitment to your success.
- **Up to 70% Cost Savings:** Repairing and refurbishing existing equipment can save you significant money versus buying new. On average, our customers **save 50-70%** by opting for repair over replacement ² ³. These savings allow maintenance budgets to go further and prevent costly unplanned capital expenditures. We also help you avoid downtime costs – which often far exceed the part's value – by providing faster turnaround than ordering a new unit. In short, we help you **stretch your budget** while maintaining reliability.
- **One-Stop Shop (Products + Repairs):** Unlike niche vendors, we offer a **comprehensive solution** under one roof. Need a new drive or motor? We'll sell it to you **and** support it through installation and beyond. Have a broken unit? We'll fix it, test it, and even help reinstall if needed. This holistic



approach means you don't have to juggle multiple suppliers or service centers – **we handle it all**. From emergency field service to stocking spare parts, Precision Electric simplifies your supply and maintenance chain so you can focus on operations.

When you choose Precision Electric, you're not just getting a supplier or a repair shop – you're gaining a dedicated partner invested in your uptime and success. Our many long-term clients will attest that we **deliver on our promises** and stand behind our work.

Ready to Maximize Your Uptime?

Let's get your equipment running at peak performance. If you have a question or urgent issue, call us now at [574-256-1000](tel:574-256-1000) – our friendly experts are standing by 24/7 to help. Interested in a repair or service quote? Fill out our quick online form to [print a free repair packing slip](#) and send us your item for a **no-charge evaluation**. You can also explore and purchase products directly on our website – [browse VFDs, motors, and more](#) with fast shipping (free ground shipping on orders over \$350).

Precision Electric is here to keep your business moving. From solving technical challenges to providing round-the-clock support, we are dedicated to **minimizing downtime, reducing costs, and delivering top-quality service** every time. **Contact us today** to discover how our team can support your industrial electrical needs – and join the many happy customers who have made Precision Electric their first call for **industrial electronics distribution and VFD repair services**. Let us prove why “experience and honesty mean everything” in what we do.

1 Motors and Generators

<https://www.nema.org/standards/view/motors-and-generators>

2 Precision Electric, Inc. - Buy AC VFDs & DC Drives - Online Shop

<https://www.precision-elec.com/drives/?srsltid=AfmBOopDYXkWORFwpRTImrSXfnRO9fuTi8G1JX0LMf0hQHbJ5Bu3lnxT>

3 800 HP DC Electric Motor Repair | Precision Electric | Training Video

<https://www.precision-elec.com/800-hp-dc-motor-repair-by-precision-electric-inc/?srsltid=AfmBOoqtJoXkU-0HmuwCiPtHOv9Ro22sOYNuTsQ3r0zIcwtu7L8YorA5>

4 5 Variable Frequency Drive Repair Services.pdf

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