



Acme Electric®

SOLUTION OVERVIEW

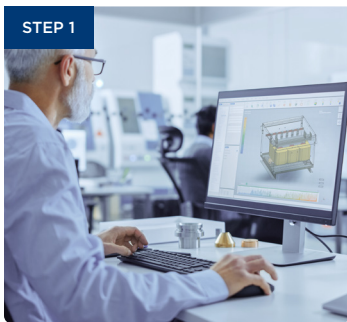
Custom Magnetics

Magnetic solutions engineered to
meet your needs



Your partner for the complete design process

Leverage our diverse and experienced team throughout the entire design process. From concept to prototyping, testing, and delivery, Acme provides support for the product development cycle.



Design ideation and engineering development

We work with your team to craft durable custom magnetic solutions designed to meet your performance requirements.



Prototyping and testing

Your design is refined through our rapid prototyping and testing capabilities. Our US-based engineering lab thoroughly tests and evaluates your products before they are released to production.



Sourcing and manufacturing

Leverage the reliability of high-quality materials expertly sourced to match your project and budget. Hubbell's global manufacturing footprint and robust buying power ensure you have access to the right logistical solution for your needs.



Ongoing application support

Our engineering and tech services group collaborates with you through delivery and installation to ensure products always function to their full potential.

For more than 100 years, engineers worldwide have trusted Acme Electric. Acme has the product selection, design expertise, and manufacturing capability to provide magnetic solutions that perform to your most exacting project requirements, without compromise. Our time-tested designs stand up to the most demanding quality requirements and can meet or exceed internationally recognized standards. Working with Acme Electric is a partnership that goes beyond simply supplying solutions. Our team of knowledgeable professionals supports you throughout the development process, from concept to design completion to production.

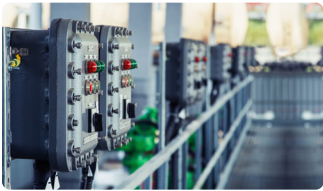
Custom magnetics solutions for your marketplace



Aerospace and Military

Our engineers are ready to help you meet and exceed the strict requirements of aerospace and military applications.

- Robust designs that resist high levels of shock and vibration
- Compact designs that minimize weight
- High temperature designs for demanding environments
- Chemical-resistant encapsulations and enclosures



Industrial Controls

In industrial settings, when electronic components must withstand harsh conditions, our solutions deliver.

- Robust performance over a wide range of operating temperatures
- Protection from hazardous and dirty environments
- The highest quality solutions designed to maximize your system's performance and keep you competitive
- Dependable operation over millions of cycles, 24/7, 365 days a year



Medical Equipment

Technology plays an important role in health care today. Acme will help you meet the unique requirements of the clinical environment.

- Safe designs that meet UL60601/EN60601 compliance standards
- Minimum electrical interference with patient monitoring equipment
- Quiet operation to minimize noise issues for patients and clinicians
- Low standby power consumption, saving utility costs



Alternate Energy

Improving your system's efficiency is the key to harnessing the full potential of new power sources.

- High-efficiency magnetic components that maximize your system's energy harvest
- Compliance with global safety regulations
- The right design to optimize your system's performance and marketability



Electrical Infrastructure

We're helping improve the efficiency of today's electrical infrastructure and achieve sustainability and energy independence.

- Robust designs for long, worry-free service
- Precision manufacturing to support accurate metering and sensing
- High-efficiency designs to minimize energy usage and reduce heat



Critical Power

Mission-critical systems need clean, dependable power 24/7. Our solutions help our customers deliver the reliability these systems demand.

- Designed with a life expectancy of over 20 years, Acme dry type magnetics are the cornerstone of the most reliable electrical distribution systems
- Superior technology tailored to your system needs
- Small footprint, low-profile designs for easy integration
- High efficiency to minimize energy use

Custom coils

Acme Electric's custom coils range from simple coils wound on a bobbin to highly sophisticated encapsulated coils used to control aircraft fuel delivery. Sizes range from ultra-small, fine-wire sense coils for circuit breakers to very large, high-power transformers used in data centers and the oil and gas industry. Depending on your needs, we can encapsulate coils via injection molding, transfer molding, liquid cast, or vacuum potting. The advantages of this superior protection include improved insulation properties and dielectric strength plus maximum structural integrity and impact resistance in all environments. Not limited by shape or size, Acme Electric's custom coils have been used in all types of industries. Each custom-made coil is designed to meet the highest industry quality standards with tested reliability.



Transfer Molding

- Thermoset materials
- Excellent chemical resistance



Injection Molded

- Thermoplastic materials
- Low-cost, high-volume applications



Vacuum Potting

- High-voltage applications



Self-Supporting Coils

- Limited space for winding
- Electric brake applications

Advanced toroidal technology

Acme Electric specializes in the design and construction of best-in-class toroidal magnetics, in addition to standard and custom inductors, and current and auto transformers. Acme's toroids offer numerous performance advantages with reduced stray magnetic fields, mechanical hum, no-load losses, operating temperatures, size, and weight. Our toroids are found in the most demanding industry applications, including the medical and communications industries. Flexible production capabilities allow for a variety of dimensions.

Specifications

- Input/output voltages up to 480V
- Frequency 50Hz to 400Hz
- Power rating up to 10kVA
- Thermal protection optional
- Insulation system from Class A (105°C) to Class H (180°C)
- Flexible dimensions, diameter, and height
- UL 5085-recognized for low voltage/general purpose transformers
- IEC 60601-1/AAMI ES60601-1 UL medical standard available upon request



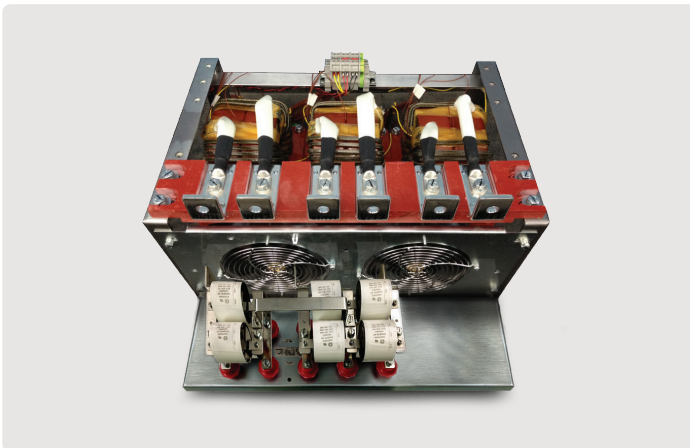
Custom magnetics solutions

We have the engineering and manufacturing expertise to design and build custom magnetic solutions for your unique application. Think of Acme Electric as a technical partner for your team.



High-frequency designs

Acme Electric custom designs and builds high frequency magnetics. From 1000 kVA custom magnetics to coils that fit in the palm of your hand, we design specialized products to push the boundaries of size, weight, performance, and endurance. Our success lies in our ability to access a wide range of manufacturing processes from around the globe. We harness those capabilities as we work with you from initial concept through testing and final production.



Custom power magnetics capabilities

Today's power magnetics need to meet extraordinary performance and dependability standards. Acme's design and manufacturing teams deliver a wide range of products including low noise, harmonic mitigating, multi-pulse isolation transformers, reactors, chokes, and filters.



Landmark performance from tiny packages

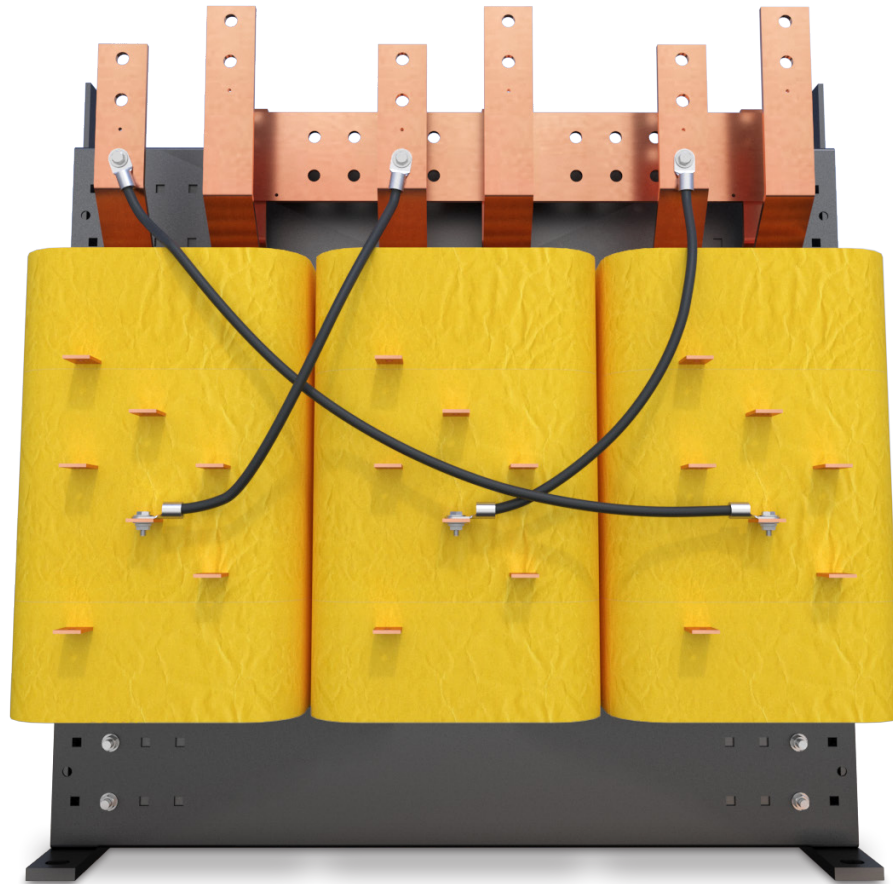
Acme's technologies enable our experts to create products for specialty applications where performance is critical. We provide the medical industry with precise output regulation through a wide range of power demands, while meeting strict safety requirements. Our lightweight and dependable products survive the altitude and high moisture environments of aerospace and military applications. We're advancing alternative solutions, providing highly efficient magnetics that improve the feasibility of solar and wind energy and biofuels. We're dedicated to providing solutions for demanding applications and meeting unique operational goals.

Your partner for low voltage power transformers

When your power needs exceed those available off the shelf, Acme provides high power, low voltage solutions through 1250 kVA. The oil and gas and data center industries require high power magnetics designed to meet an organization's critical needs. Count on Acme Electric for our engineering expertise and as a dependable corporate partner. Acme offers a wide variety of low voltage, dry type, nonlinear, energy-efficient isolation transformers that deliver dependability for all critical applications. Our transformer team works with you to ensure reliable delivery, smooth implementation, and ongoing service.

Technical engineering expertise

Acme has the technical expertise to design and build custom, premium quality power transformers for your large commercial and industrial applications. Our experts will design the optimal transformer to complement your application. We back that up with production and design testing at our facilities to validate that our performance meets your application needs. Acme has the capacity to design and produce at volume and to deliver on time.






Acme Electric®

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