

The background of the entire page is a dark, industrial scene featuring a welding process. A bright blue and white arc of light is visible, with sparks and molten material being ejected from the point of contact. The overall color palette is dominated by deep blues and purples, with the bright light from the welding providing a strong contrast.

Spang *Power Electronics*

Since 1953, supplier of power control & conversion equipment for industrial applications in:

- ▶ **Glass**
- ▶ **Hydrogen**
- ▶ **Coatings**
- ▶ **Fiber**
- ▶ **Plasma Arc**
- ▶ **Polysilicon & Solar**
- ▶ **Industrial Heating**
- ▶ **Industrial DC Rectifiers**

Custom AC & DC Power Systems

Spang Power Electronics' engineers leverage decades of experience in supplying custom AC and DC power systems for a diverse range of industrial applications. While Spang's presence is global, our engineering designs are exclusively US-based, and ISO 9001 certification at all locations furthers our commitment to quality and performance. Spang focuses on understanding our customers' applications and providing the right power control solutions to drive customer value. We specialize in applying SCR and IGBT firing technology within the AC and DC power conversion stages to deliver reliable and innovative solutions. These technologies are essential for both traditional power topologies and emerging high-frequency applications including Active Front End (AFE) configurations, as well as "choppers" and inverters.

AC power systems

- ▶ Designed to precisely match the characteristics of the specific heating elements and process requirements
- ▶ Commonly consists of SCR power controller(s) packaged in an enclosure with or without voltage matching transformers

Spang's AC power systems are designed for many diverse global markets and applications including:

- ▶ Flat, LCD, Container, and Specialty Glass
- ▶ Polysilicon Manufacturing & Processing
- ▶ Fiberglass, Carbon Fiber, and Ceramic Fiber
- ▶ Industrial Heating Applications

DC power systems

- ▶ Converts AC voltage/current to DC while providing high reliability, energy efficiency and extended life
- ▶ Custom-designed with the features and options needed to precisely meet the application requirements

Spang's highly experienced engineering team designs DC power systems for unique industrial applications including:

- ▶ Automotive and Industrial Electrocoating
- ▶ Hydrogen Generation
- ▶ Plasma Arc
- ▶ Polysilicon Processing
- ▶ Anodizing, Plating and Cleaning



Spang's complete solutions are equipped with circuit protection such as circuit breakers, metering, and pilot light indication. They take a continuous AC "voltage in" and provide a controlled/variable "voltage out." Historical experience, application knowledge, and a strong technology focus have elevated Spang to become a global leader of custom power systems.

SCR Power Controllers

Spang Power Electronics' Digital SCR power controllers are loaded with unique, value-engineered features and functionality for custom system installations, integration, or retrofit. Spang's controllers help reduce the overall system cost through the elimination of auxiliary components as well as improve the end user's runtime performance. Key features include:

- ▶ Direct temperature control integrated within the 1050 Series power controllers offers an affordable price to the industrial heating market
- ▶ Power synchronization functionality between controllers in zero cross fired applications minimizes the peak power draw on the source
- ▶ User-friendly apps safely provide access to advanced performance monitoring

Additional design features allow customers to implement higher density installations, reduce system components, and manipulate process data in real time with this easily configurable package:

- ▶ Compact "bookshelf style" packaging with integrated I²T fusing
- ▶ Single, color touch screen display capability for multiple controllers
- ▶ Expandable I/O interface for sophisticated system applications
- ▶ High speed network communications to programmable logic controllers (PLCs) or industrial computers



Service

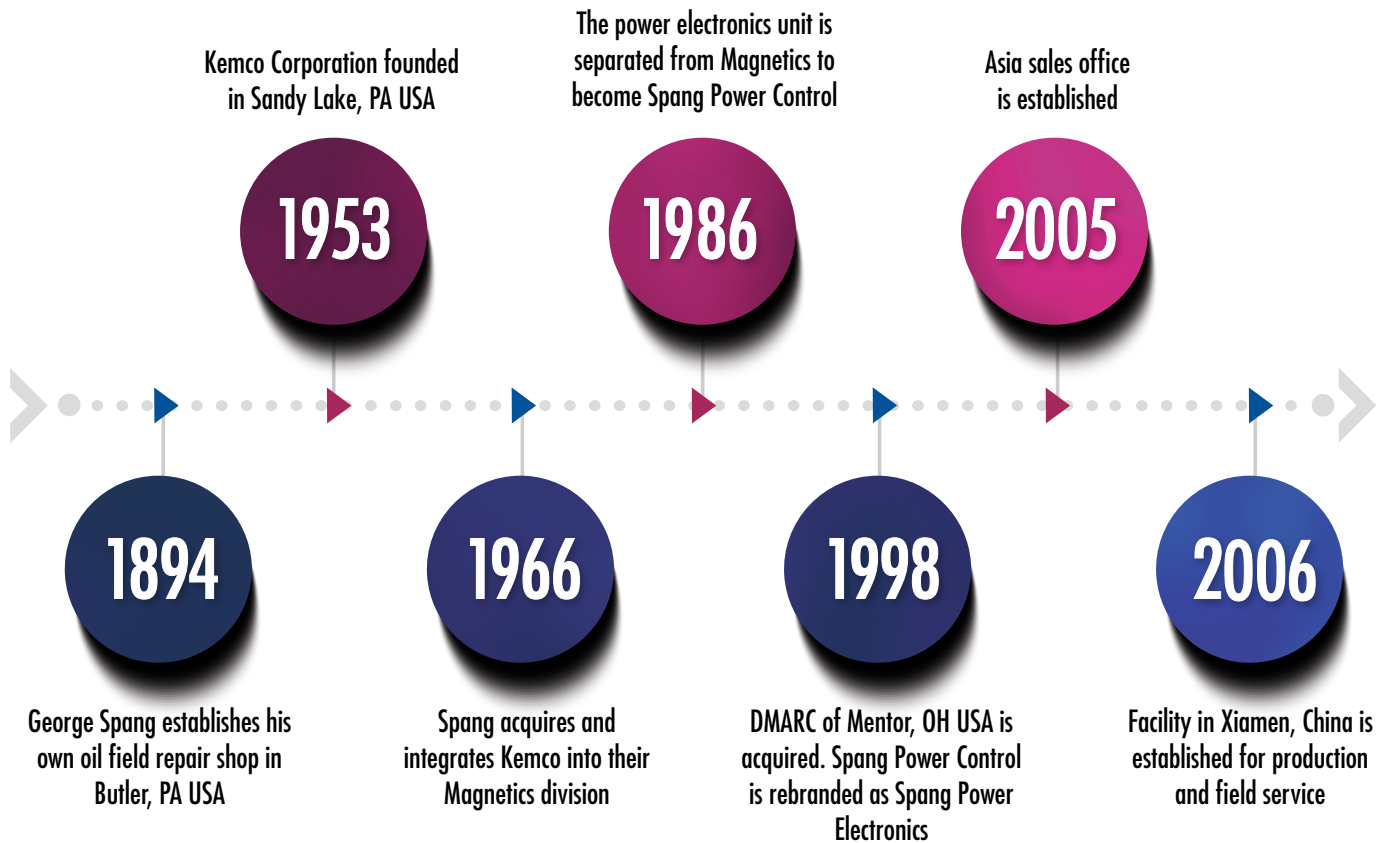
At Spang Power Electronics, we believe that quality products and solutions deserve high-quality service to back them. That is why our experienced service technicians are available to troubleshoot, service, and perform preventative maintenance on our customer's equipment. We evaluate, service, and test equipment to ensure operation is always at peak performance.



Global Support & Service

Visit us at spangpower.com

Our History



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