



# LARGE POWER TRANSFORMERS

*Adding the WAUKESHA EXPERIENCE® to every stage of your transformer's life*

# CUSTOMER-CENTRIC EXPERTISE

As one of the largest U.S. manufacturers of power transformers and a leading provider of transformer services and components, SPX Transformer Solutions has been providing transformer solutions for our nation's electrical grid for over 50 years.

Our expert team delivers customized results and support to earn our customers' business for new installs, relocations, retrofits, emergency replacements and storage programs, all with a focus on total ownership cost, turnkey solutions and reliable performance that provide an exceptional customer-centric experience for peace of mind and satisfaction. Providing competitive solutions and expert collaboration with our customers is our passion, and we take pride in offering dedicated support in design, order placement, manufacturing, logistics, field installation and strategic maintenance planning to service the transformer throughout its life.

Before, during and after the sale, the SPX Transformer Solutions' team is equipped to provide valued solutions for your large power transformer needs!



## *experience*

WAUKESHA® TRANSFORMERS



COMPETITIVE TOTAL OWNERSHIP COST



TURNKEY SOLUTIONS



RELIABILITY





## Our Commitment

Delivering on our commitments every day with the highest standards of quality to

- Our Customers
- Our Employees
- Our Suppliers and Channel Partners
- Our Shareholders
- Our Communities

We pledge our commitment to provide the products, services and support that meet or exceed our customers' expectations – every day, every order, every unit.

That is the **Waukesha Experience®**

## PRODUCT OFFERING

### TYPICAL APPLICATIONS

- Power transmission
- Power generation
- Renewable energy
- Industrial locations
- Data centers
- Static VAR compensators

### CUSTOMER SOLUTIONS

- New installations
- Relocations
- Retrofits
- Emergency replacements
- Storage programs

### PRODUCT TYPES & RANGES

- Auto Transformers
  - Single Phase: Up to 1000 MVA
  - Three Phase: Up to 1200 MVA
- Non-Auto and Generator Step-Up Transformers
  - Single Phase: Up to 600 MVA
  - Three Phase: Up to 900 MVA

### VOLTAGE

- Up to 345kV nominal system voltage

### CORE FORM TECHNOLOGY

- Single Phase: Up to Four-Limb
- Three Phase: Up to Five-Limb

### DESIGN OPTIONS

- Load tap changers
- High temperature insulation
- Natural ester fluid
- Low sound enhancements
- No load and load sound
- Parallel operation
- Impedance matching

# Providing a COMPETITIVE TOTAL OWNERSHIP COST through optimization, serviceability and proven field performance



At SPX Transformer Solutions, we recognize that Total Ownership Cost is more than the initial transformer price and evaluated losses. That is why we aim to provide a competitive total ownership cost that includes every stage of the transformer life cycle. From design to manufacture through shipping, rigging, field installation and, finally, service and support throughout the life of the installed transformer, Waukesha® transformers provide a competitive total ownership cost, backed by valued services and support.



## OUR MISSION

Providing power transformer product and service solutions for a reliable electric grid

# Offering TURNKEY SOLUTIONS from pre-order inquiries to installation and field support



At SPX Transformer Solutions, we provide a full range of services to support our customers' needs before and after the transformer's time on the manufacturing floor:



## FINDING THE RIGHT DESIGN

- Specification guidance, review and development
- On-site assessments of existing structures and footprints



## MANUFACTURING ASSURANCES

- Dedicated project managers, acting as liaisons on behalf of the customer, from order placement throughout field installation
- Rigorous schedule management and customer communication



## LOGISTICS SUPPORT

- Professional team to customize logistics plans for each customer project
- Complete logistics services, including shipping and rigging, for safe and efficient transport of transformer to pad



## EXPERT FIELD INSTALLATION

- Field installation by a fully equipped, experienced team – from assembly to vacuum filling and testing – to ready transformers for energization
- Support with disassembly and removal of existing transformer as well as coordinated disposal



## ONGOING CUSTOMER SUPPORT AND SERVICE

- Experienced, U.S.-based customer support for field service, component replacement and engineering services
- Maintenance and troubleshooting support during the life of the transformer

Each SPX Transformer Solutions' employee aims to provide an exceptional customer experience to ensure all requirements and needs are met. With our ability to design, manufacture and test transformers; manage logistics services; offer complete field assembly, commissioning and maintenance programs, components and training, SPX Transformer Solutions is well positioned to provide a turnkey package of valued solutions.

## Designing and building RELIABILITY into every transformer



SPX Transformer Solutions designs, manufactures and tests all Waukesha® large power transformers at the company's modern operating facilities in Waukesha, Wisconsin, according to the latest IEEE, ANSI, NEMA and ISO 9001 quality system standards.

All transformers are designed by our engineers to meet customer specifications, load and no load loss targets and quality standards, all while maintaining an optimal, cost effective solution.

Precision manufacturing, quality materials and processes utilized by a well-trained, experienced workforce, help ensure Waukesha® transformers are built to the highest quality and reliability standards to meet the most stringent customer specifications. The result is a reliable asset with a competitive total ownership cost bolstered by demonstrated field performance for peace of mind.

SINCE  
**2011**

manufacturing large power transformers in dedicated facility

OVER  
**130**

units manufactured

**0%**

field failure rate

## Do you need support?

- Need help developing a transformer specification?
- Trying to solve for a new low sound design?
- Have a major replacement project coming up?
- Have a logistics question for a transformer relocation?
- Have a new engineer to train?
- Need help with a component replacement?

Whatever your transformer need, we are here to help.

GIVE US A CALL.



# WAUKESHA®

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

## United States locations

### WAUKESHA HEADQUARTERS

400 South Prairie Avenue  
Waukesha, WI 53186  
800 835 2732

### GOLDSBORO PLANT

2701 US HWY 117 South  
Goldsboro, NC 27530  
800 758 4384

### COMPONENTS

9011 Governors Row  
Dallas, TX 75247  
800 338 5526

### SERVICE

Emergency Service Available  
24/7/365: 888 365 24x7  
800 758 4384

SPX Transformer Solutions, Inc., is one of the largest U.S. manufacturers of power transformers and a valued supplier of complete transformer service solutions, reverse-engineered components and replacement parts as well as a variety of substation-applicable training classes for all skill levels. Manufacturing locations include our headquarters in Waukesha, Wisconsin, as well as satellite sites in Goldsboro, North Carolina, and Dallas, Texas.

### WAUKESHA® TRANSFORMERS

Our modern transformer manufacturing operations in Waukesha, Wisconsin, and Goldsboro, North Carolina, have amassed over 90 years of combined experience producing high quality power transformers that meet stringent customer demands. Utilizing sophisticated, computer-controlled equipment and test systems, SPX Transformer Solutions also maintains one of the shortest production cycles in the industry, which allows the team to respond quickly to customer delivery and installation requirements.

### WAUKESHA® SERVICE

Our Service Group can provide complete transformer service solutions for any manufacturer's units, including installation, maintenance, relocation, testing and technical assessments; oil processing, dryouts and retrofills; corrective and preventative maintenance; load tap changer field retrofits and repairs. Along with a vast number of skilled personnel located strategically across the country, we manage one of the largest fleets of specialized transformer service equipment in the United States. This allows us flexibility, optimized installation hours and costs while helping us provide efficient, safe and high quality service to our customers.

### WAUKESHA® COMPONENTS AND TRAINING

The Components team operates a manufacturing, testing and training facility in Dallas, Texas, as a leading supplier of parts for most major current and obsolete load tap changer (LTC) and oil circuit breaker brands as well as being the original manufacturer of a line of Transformer Health Products®. Additionally, we offer a variety of LTC services, including maintenance training, failure analysis reporting and complete overhauls at this location while also continuing to build our reputation as an industry leader in reverse-engineering and design enhancement.



### SPX CORPORATION

SPX Corporation is a supplier of highly engineered products and technologies, holding leadership positions in the HVAC, detection and measurement, and engineered solutions markets. Based in Charlotte, North Carolina, SPX Corporation had approximately \$1.5 billion in annual revenue in 2016 and more than 5,000 employees in about 15 countries. SPX Corporation is listed on the New York Stock Exchange under the ticker symbol "SPXC." For more information, please visit [www.spx.com](http://www.spx.com).