JST POWER EQUIPMENT

Transforming the Future of Power

Transformer, Switchgear and Electrical Power Solutions

30+

Years of Production and Operating Excellence

30+
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80+
Countries with JST Power Products Installed

2,300+
Employees Worldwide

200,000+
Transformers Installed

16,000+
Unit Substations Installed

80,000+
Switchgear Sections Installed

11
Manufacturing Plants Worldwide

A Standard of Excellence

World-Class Solutions Powered by a Dedicated Team

At JST Power Equipment, we pride ourselves on delivering world-class transformer and electrical equipment solutions.

The key to our success is the ability to provide quality products with speed and precision through the dedication of our talented team.

We're more than a manufacturer, we're transforming the future of power.

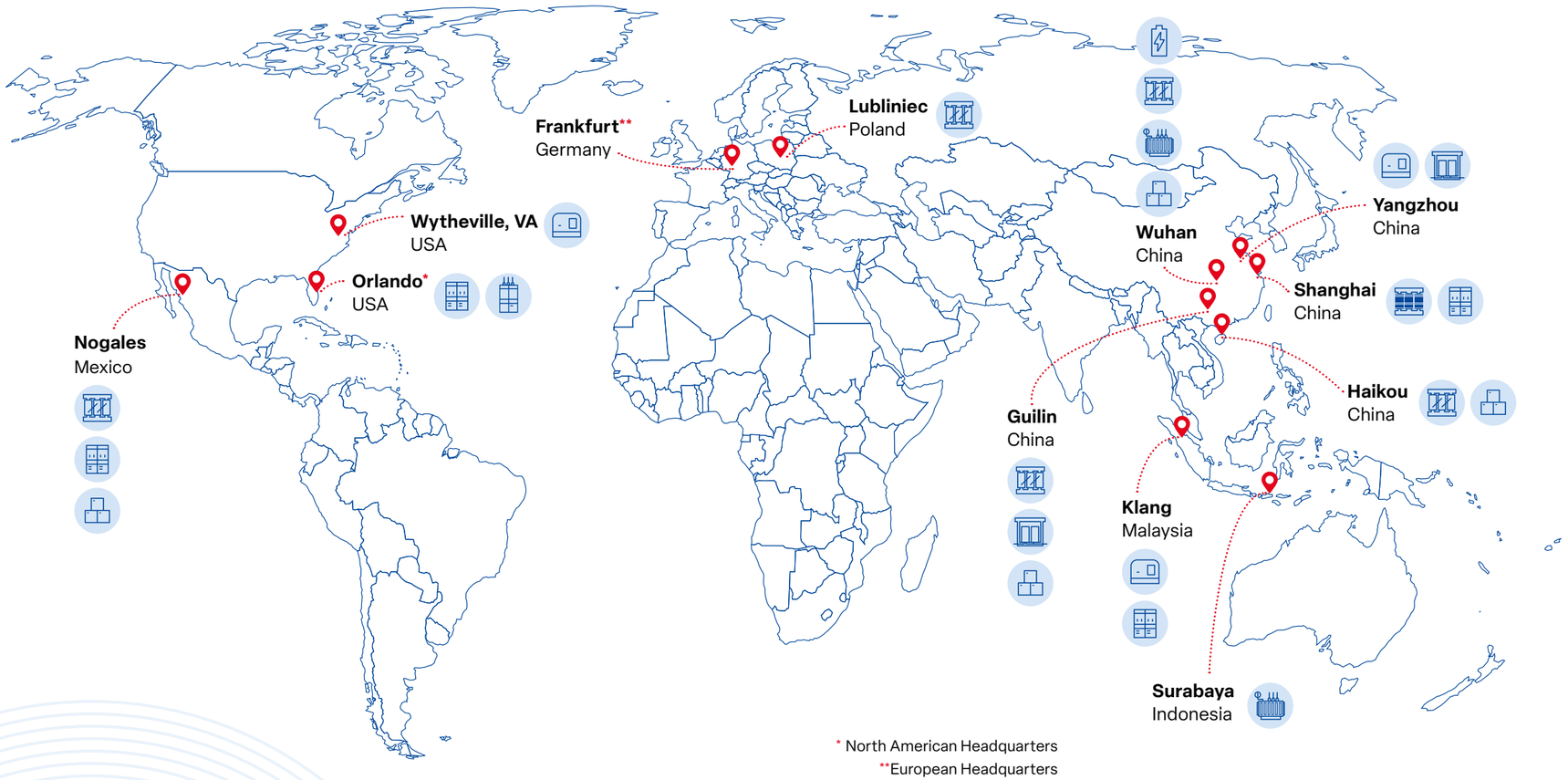
Our Customer Commitment

- Outstanding customer service when and where you need it
- Dedicated planning and engineering
- Industry-leading delivery times
- Exceptional customer-awarded product quality standard
- End-to-end project management and after-sales service

A Tradition of Innovation

Growing Locations Across Continents

JST Power started in 1993 in Haikou, China, under the name “Jinpan Special Transformers” as a highly specialized manufacturer of technically valuable and environmentally friendly power engineering products. From our beginnings as a manufacturer of cast resin dry-type transformers to the development of complex medium voltage switchgear, unit substations and battery energy storage systems, our focus has always been on growth and customer orientation. Today, we serve our customers worldwide from our locations in the USA, Mexico, Europe and Asia.



* North American Headquarters
**European Headquarters

JST POWER EQUIPMENT

Products

Cast Resin Dry-Type Transformers

Voltage levels up to 72.5 kV (350 kV BIL) and ratings 300 kVA – 45 MVA

VPI Dry-Type Transformers

Voltage levels up to 25 kV (110 kV BIL) and ratings up to 14.5 MVA

Power Transformers

Power ratings 5–100 MVA* (max with fans) and primary voltage up to 171 kV (650 kV BIL)

Pad Mounted Transformers

Single-phase voltage levels up to 34.5 kV and power ratings up to 167 kVA. Three-phase voltage levels up to 44 kV and power ratings up to 10,000 kVA.

Medium Voltage Switchgear

Environmentally friendly, SF_6-free gas-insulated switchgear options suitable for operating voltages up to 38 kV and traditional SF_6 options up to 72 kV. Air-insulated switchgear suitable for operating voltages up to 15 kV.

Unit Substations

Customizable, prefabricated solution includes MV switchgear, transformer, controls and monitoring.

Outdoor Substation Breakers

OD3MAG™ Outdoor Substation Breaker is a magnetically actuated breaker with single- and three-phase capability.

Battery Energy Storage Systems

HV transformerless and all-in-one BESS solutions with capacities ranging from 1 MWh to over 1,000 MWh.

Components and Assemblies

* Ask us about sizes and ratings beyond 100 MVA to meet your project specifications.

Transformers

Dry-type and oil-filled transformers each offer unique features and advantages. Depending on the requirements profile in your application case, we will find the right solution to fit your needs.

Dry-Type Transformers

Environmentally friendly alternatives to oil-filled transformers with higher performance and better electrical properties:

- **Cast resin voltage levels up to 72.5 kV (350 kV BIL)**
- **VPI voltage levels up to 25 kV (110 kV BIL)**
- Easy maintenance and servicing
- Cooling operation at higher outputs through fans and cooling ducts
- Robust structure to prevent damage from electrical faults
- NEMA enclosure options

Pad Mounted Transformers

Our single-phase and three-phase liquid-filled pad mounted transformers serve a variety of industry applications. These solutions offer the following advantages:

- **Single-phase voltage levels up to 34.5 kV**
- **Single-phase power ratings up to 167 kVA**
- **Three-phase voltage levels up to 44 kV**
- **Three-phase power ratings up to 10,000 kVA**
- Space-saving, compact design
- High-quality production materials and solid workmanship
- Easy to install with low maintenance

Power Transformers

Fully customizable, robust construction with maximum durability and low maintenance for optimum power distribution for low to medium voltage power levels:

- **Power ratings 5–100 MVA***
- **Primary voltage ratings up to 171 kV**
- Capacity to operate under harsh industrial conditions
- Optimized performance and reduced operational costs
- Compact size allows for easy integration

* Ask us about sizes and ratings beyond 100 MVA to meet your project specifications.

Our History

1993
"Jinpan Special Transformers" is founded in the Haikou Special Economic Zone, China.

1997
First North American sales office opens in New Jersey, USA.

1998
First IPO and international orientation of the company as "JST Smart Technology".

2002
JST focuses on diversified product development, expanding into more environmentally friendly solutions and switchgear.

2007
JST products are listed in North America in UL 1562 and thus fulfill independently confirmed and proven quality and safety requirements.

2009
Shanghai R&D manufacturing facility opens for VPI dry-type transformers and GIS switchgear production.

2019
The first North American manufacturing plant for transformers goes into operation in Nogales, Mexico.

2020
The North American headquarters is opened in Greater Orlando, USA. This is followed by a significant expansion of the R&D center and in-house switchgear production in the USA.

2021
European sales office opens in Frankfurt, Germany.

2023
State-of-the-art digital factory and industrial park for power transformers and battery energy storage production opens in Wuhan, China.

2025
Transformer manufacturing locations open in Virginia, USA and Klang, Malaysia.

Industries We Serve

Our high performance, quality solutions are supporting the power needs of industries across the globe:

- Power generation
- Power transmission and distribution
- Renewable energies
- Data centers
- Industrial and manufacturing facilities
- Commercial infrastructure
- Rail and transportation systems

Medium Voltage Switchgear

JST Power Equipment's switchgear products offer you the most flexible options to suit your power distribution needs. Our solutions are engineered for quality and built to last.

Air-Insulated Switchgear

Our **J100CLAD™ Metal-Clad Air-Insulated Switchgear** is an IEEE rated, non-arc resistant, metal-clad medium voltage air-insulated switchgear that provides safe, reliable switching and fault protection. It is specially designed for our **J3MAG™ vacuum circuit breaker** that offers several advanced features and advantages, including:

- **5–15 kV / 3000 A / 25–50 kA**
- 3-cycle operation
- Independent pole actuators
- Highly reliable magnetic actuators
- Safer design, easier access for service

Gas-Insulated Switchgear

We offer robust and compact gas-insulated switchgear products in various system configurations and insulator types, including an environmentally friendly, non-SF_6 option. They are engineered for use in a variety of applications and include:

- **J10X™ RMU (SF_6): 38 kV / 600 A / 25 kA**
- **J20X™ CGIS (SF_6): 38 kV / 3000 A / 40 kA**
- **J20X™ CGIS (SF_6): 69 kV / 1200 A / 31.5 kA**
- **J10N™ Dry Air GIS: 5 kV / 600 A / 20 kA**
- **J20N™ Dry Air GIS: 38 kV / 1200 A / 31.5 kA**

Outdoor Substation Breaker

Our **OD3MAG Outdoor Substation Breaker** is the first medium voltage substation breaker that allows the choice of single-phase or three-phase operation. Combined with a robust enclosure that prevents moisture and contamination ingress, the OD3MAG breaker uses field-proven magnetic actuation to significantly reduce O&M spend.

- **15.5 kV / 2000 A / 31.5 kAIC / 125 kV BIL**
- Single-phase capability with independent pole actuators
- Direct drive, magnetic actuation eliminates the need for lubrication and allows consistent operating speed across the life of the breaker

Battery Energy Storage Systems

Our battery energy storage systems (BESS) solutions are engineered and custom-built to meet the needs of our customers across global markets and various industry applications.

HV Transformerless Products

Our high voltage, stage-fed energy system enables 38 kV direct grid connection without the use of a transformer—reducing system losses and improving cycle efficiency.

- **Capacities range from 1 MWh to over 1000 MWh**
- Reliable peak power supply
- Energy cost optimization
- Maximum renewable energy utilization

All-in-One BESS Solution

For commercial and industrial applications, our all-in-one solution offers:

- **100 kW / 233 kWh and 100 kW / 215 kWh options**
- Optimal peak management
- Enhanced backup power and resilience
- Increased power quality and reliability

Unit Substations

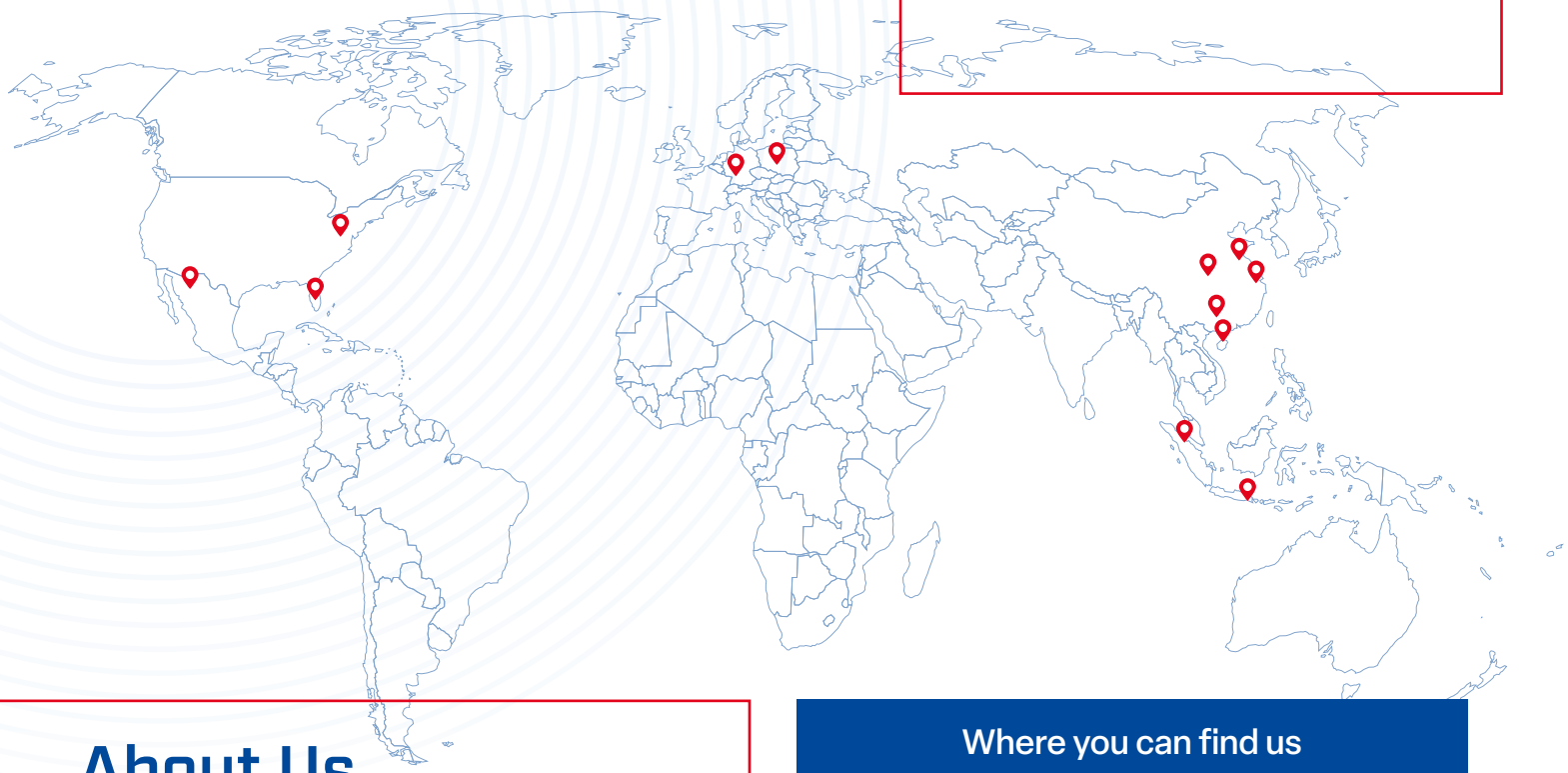
Our modular systems provide comprehensive coverage, from medium to low voltage, and practical advantages such as a small footprint, flexibility for relocation and predictable investment costs.

Our prefabricated substations include essential components such as transformers and switchgear, control and protection technology, measuring systems and monitoring capabilities.

- **Manufactured and tested in-house** to meet the **highest quality standards**
- **Streamlined commissioning process** reduces overall lead time
- Standardized ISO container dimensions and sheet metal construction significantly simplifies **handling and transport**
- A proven track record of success with **reliability from a single source**

JST Power Equipment Around the World

Want to know more or inquire with our team? Scan here.



About Us

At JST Power Equipment, we pride ourselves on delivering world-class transformer and electrical equipment solutions. The key to our success is the ability to provide quality products with speed and precision through the dedication of our talented team.

For over 30 years, we've evolved to become an innovator in the electrical industry and we work hard to design and build our products to the highest quality standards. And as we look toward the future, we're continuously investing in our technology, facilities and people to engineer the best solutions in the industry and create more value for our customers.

At JST we're more than a manufacturer, we're transforming the future of power.

Where you can find us

North America

- Orlando, FL USA
- Wytheville, VA USA
- Nogales, Mexico

Europe

- Frankfurt, Germany
- Lubliniec, Poland

Asia

- Guilin, China
- Haikou, China
- Shanghai, China
- Wuhan, China
- Yangzhou, China
- Surabaya, Indonesia
- Klang, Malaysia

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LM-AMA-382 Rev. E / JST