

GT-HRM-12

Environmentally Sustainable Gas-Insulated Ring Main Unit (RMU)

More reliable power supply
More secure power protection



JUBANG GROUP CO., LTD.

Address: Wei No.16 Road, Jubang Industrial Park, Economic Development Zone,

Yueqing City, Wenzhou, Zhejiang Province, China

Tel: +86 577 6279 9786 E-mail: jubangexport@mccb.cn

Web: www.jubangele.com

Customer Service Hotline: **400 8099 777**

© Jubang Group Co., Ltd. All rights reserved. Printed in February 2026

♻️ Use environmentally friendly paper for printing

⚠️ Specifications are subject to change without prior notice.
The company reserves the right of final interpretation.



Committed to becoming a
leader in power system solutions

ONE-STOP PRODUCTS EPC FOR POWER PROJECTS SMART O&M



Mission

More Reliable Power Supply · Safer Power Protection



Vision

Set the industry benchmark for power distribution equipment and jointly build a smart energy ecosystem



Core Values

Integrity · Diligence · Responsibility · Respect · Trust



Company Profile

Jubang Group Co., Ltd. is a provider of one-stop products + power EPC services + smart O&M power system solutions. Founded in 1993, the company has a registered capital of RMB 137.17 million. Its manufacturing base covers an area of 5.58 hectares, with 135,000 m² of standard workshops. The product portfolio includes intelligent complete switchgear, primary and secondary integrated equipment, distribution transformers, box-type substations, and power components.

In recent years, the company has continuously enhanced its capabilities in technology, branding, marketing, intelligent manufacturing, and services, and has become a qualified supplier to State Grid Corporation of China, China Southern Power Grid, PetroChina Company Limited, Inner Mongolia Power (Group) Co., Ltd., China Three Gorges Corporation, China Gezhouba Group, China Gold Group, Inner Mongolia Yitai Group, and other large enterprises.

The company has established industry-university-research cooperation with Zhejiang University, North China Electric Power University, Northeast Electric Power University, China Electric Power Research Institute, Shanghai Electrical Apparatus Research Institute, Hebei University of Technology, Hangzhou Dianzi University, and other institutions. It has obtained a total of 160 valid patents, including 35 invention patents, 45 software copyrights, and 11 provincial- and ministerial-level science and technology progress awards, and has participated in the formulation of 25 national and industry standards.

Jubang Group has been recognized as a National High-Tech Enterprise, a CNAS-accredited National Laboratory, a National Intellectual Property Advantage Enterprise, a “Little Giant” enterprise specializing in innovation by the Ministry of Industry and Information Technology, a National Postdoctoral Research Workstation, a National Green Factory, a Zhejiang Provincial Contract-Honoring and Creditworthy Enterprise, a Zhejiang Provincial Service-Oriented Manufacturing Demonstration Enterprise, a Zhejiang Provincial “Hidden Champion” Enterprise, a Zhejiang Provincial Industrial Internet Platform, a Zhejiang Provincial Green Low-Carbon Factory, a Zhejiang Provincial Specialized and New Enterprise, and a Zhejiang Provincial Third-Level Cloud Enterprise. The company holds Grade II qualification for power engineering construction general contracting, and holds, undertakes, and trials Grade III power business licenses.

1993

Founded

6⁺

R&D platforms

11⁺

National-level honors

5⁺

Cooperation with Fortune Global 500 enterprises

4

National wholly owned subsidiaries

35⁺

Over 35 offices nationwide

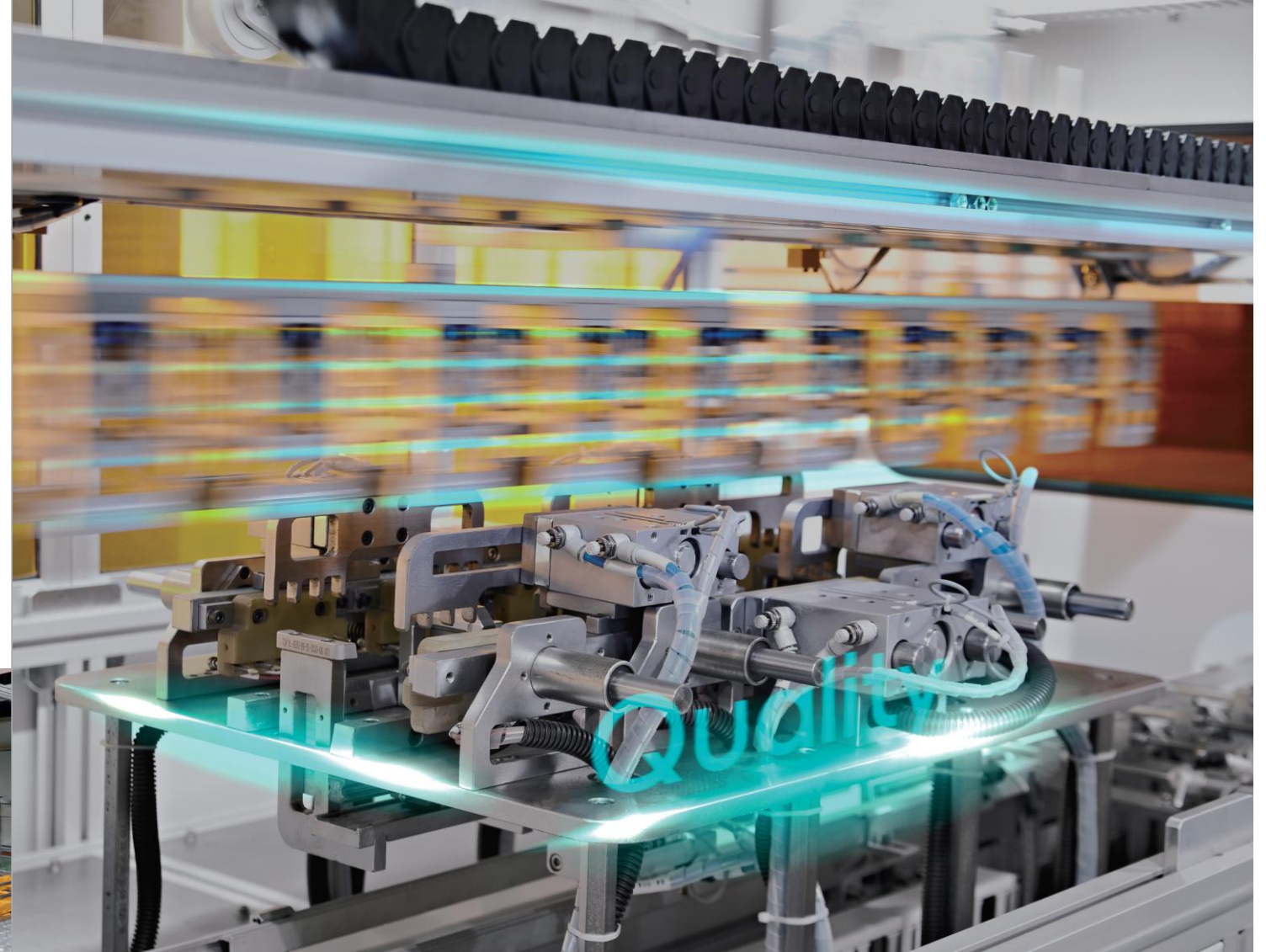
Craftsmanship Creates Excellence Meticulous Quality · Customer First

Jubang Group Co., Ltd. always places customer satisfaction as the top priority. With a CNAS-accredited national laboratory, the company implements strict quality control standards, conducting full-process control from raw material procurement to finished product delivery. Guided by customer needs, Jubang integrates design, manufacturing, and testing, delivering reliable quality to support long-term customer value.



Precision Quality Control

Strict implementation of ISO 9001 Quality Management System, ISO 14001 Environmental Management System, and ISO 45001 Occupational Health and Safety Management System. Advanced quality management tools such as FMEA, PPAP, 8D, Control Plans, and Six Sigma are applied to continuously improve product quality.



Intelligent R&D Empowerment

Technological innovation is the core competitiveness of Jubang. Our R&D team is composed of highly educated and high-caliber professionals, dedicated to delivering competitive products and services and creating greater value for customers. With senior experts as technical advisors, the company has established a distinctive three-tier R&D talent structure. Through industry-university-research cooperation with domestic universities and research institutes, Jubang accelerates the transformation of R&D achievements and promotes high-quality development.

End-to-End Intelligent Manufacturing

With digital factories and intelligent manufacturing at the core, Jubang has established an efficient PLM collaborative integration platform, along with ERP and MES systems, enabling full life-cycle management of products. Seamless coordination is achieved across design, manufacturing, quality, and logistics, providing precise and efficient management at every stage of the product life cycle.

In addition, the company has introduced advanced production lines and processing equipment, including circuit breaker and RMU automated assembly and testing lines, CNC sheet metal flexible production lines, CNC turret punches, CNC laser cutting machines, CNC press brakes, CNC machining centers, and CNC spring machines. Jubang is also equipped with a CNAS-accredited national laboratory, featuring capabilities for mechanical performance, temperature rise, lightning impulse, partial discharge testing, as well as product testing and integrated management of test data.

Corporate Honors

160⁺

Valid Patents

120⁺

Provincial-Level
Products

45⁺

Software
Copyrights

25⁺

Participation
in National



High-Tech Enterprise



National Patent Product



World-Class Quality
Made in Zhejiang



Zhejiang Famous
Brand Product



National Spark
Plan Project



Science and Technology
Progress Award



Specialized, Refined,
Characteristic



Carbon Footprint

National-Level Honors

- MIIT Specialized, Refined, Distinctive, and Innovative “Little Giant” Enterprise for High-Quality Development Support
- National Green Factory
- MIIT Specialized, Refined, Distinctive, and Innovative “Little Giant” Enterprise for High-Quality Development Support
- National Postdoctoral Research Workstation
- National High-Tech Enterprise
- National Intellectual Property Demonstration Enterprise
- National Intellectual Property Advantage Enterprise
- National Contract-Abiding and Creditworthy Enterprise
- National Model Employer of Harmonious Labor Relations
- CNAS Nationally Accredited Laboratory
- National Green Product

Provincial-Level Honors

- Zhejiang Provincial Hidden Champion Enterprise
- Zhejiang Jubang Electric Appliance Research Institute
- Zhejiang Provincial Enterprise Technology Center
- Zhejiang Provincial Industrial Design Center
- Zhejiang Provincial High-Tech Enterprise R&D Center
- Zhejiang Manufacturing Single Champion Cultivation Enterprise
- Zhejiang Specialized, Refined, Distinctive, and Innovative SME
- Zhejiang Green Low-Carbon Factory
- Zhejiang Provincial Intellectual Property Demonstration Enterprise
- Zhejiang Service-Oriented Manufacturing Demonstration Enterprise
- Zhejiang Third-Batch Cloud-Based Enterprise
- Zhejiang Provincial Industrial Internet Platform
- Zhejiang Provincial Software Copyright Product
- Zhejiang Provincial Credit Management Demonstration Enterprise
- Zhejiang Provincial Supply Chain Innovation and Application Demonstration Enterprise
- Zhejiang Second-Batch Digital Economy “Morning Star” Pilot Enterprise
- Zhejiang Provincial Second-Batch Intelligent Manufacturing Demonstration Enterprise
- Zhejiang Demonstration Enterprise for New Areas of Industrial Integration
- Zhejiang Manufacturing Certification Enterprise
- Zhejiang Provincial Enterprise with Outstanding Achievements in Clean Production (Phased)
- Zhejiang Provincial Technology-Based SME
- Zhejiang Provincial Trademark Brand Demonstration Enterprise
- Zhejiang Provincial Innovation Demonstration Enterprise

Municipal-Level Honors

- Yueqing Manufacturing Industry Top 32 Enterprises
- Wenzhou Model Enterprise Group
- Wenzhou Civilized Unit
- Wenzhou Credit Management Demonstration Enterprise
- Wenzhou High and Low Voltage Electrical Technician Training Center
- Yueqing Mayor’s Quality Award
- Yueqing “Zero-Carbon Factory” Innovation Demonstration Enterprise
- Yueqing High-Skilled Talent Public Training Base Enterprise

Science & Innovation Platforms

- National Postdoctoral Research Workstation
- Zhejiang Jubang Electric Appliance Research Institute
- Zhejiang Provincial Enterprise Technology Center
- Zhejiang Provincial Industrial Design Center
- Zhejiang Provincial High-Tech Enterprise R&D Center
- North China Electric Power University
- Northeast Electric Power University
- Nanjing University of Aeronautics and Astronautics
- Zhejiang University
- Hebei University of Science and Technology
- Hangzhou Dianzi University
- Shanghai University of Engineering Science
- Wenzhou Polytechnic
- China Electric Power Research Institute
- Shanghai Electrical Apparatus Research Institute

Scientific Research Achievements

- First Prize of China Commercial Federation Science and Technology Progress Award
- Second and Third Prizes of Zhejiang Provincial Science and Technology Progress Award
- Second Prize of Zhejiang Provincial Fire Protection Science and Technology Innovation Award
- Second Prize of China Federation of Industry and Commerce Science and Technology Progress Award
- National Specialized, Refined, and Innovative SME Technology Innovation Project
- National Spark Program Project
- National Torch Program Project
- China Industry-Academia-Research Cooperation Innovation Achievement Award
- Power Industry Major Technical Equipment and Project Catalog
- Excellence Award for Participation in Standardization of the National Low-Voltage Electrical Standardization Technical Committee
- Second and Third Prizes of Zhejiang Machinery Industry Science and Technology Award
- Second and Third Prizes of Zhejiang Power Transmission and Transformation Equipment Industry Association Outstanding Product Award
- Zhejiang Provincial Excellent Industrial Product
- Zhejiang Manufacturing Premium Product
- Zhejiang Energy-Saving New Product Catalog
- Second Prize of Wenzhou Science and Technology Progress Award
- Outstanding Standardized Technology Achievement Award of Wenzhou Quality and Technology Promotion Association
- Wenzhou First-Set (Suite) Equipment in Key Areas of Equipment Manufacturing

Social Responsibility

- Standing Director of China Electricity Enterprise Federation
- Vice Chairman of China Electrical Equipment Industry Association (High Voltage Switchgear Branch)
- Director of National Low-Voltage Electrical Standardization Technical Committee (SAC/TC189)
- Director of National Low-Voltage Complete Switchgear and Control Equipment Standardization Technical Committee (SAC/TC266)

Strategic Partners

Centered on enhancing customer experience through meeting personalized needs, we deliver 360° all-round product and service standards, providing comprehensive pre-sales and after-sales support. Anytime, anywhere, whenever you have a requirement, we are committed to fully meeting your needs.



Intelligent Power Distribution System



中国铁建



中航工业



青藏铁路



平高集团
PINGGAO GROUP



火箭军



中国中铁
CREC



中国港湾
CHINA HARBOUR



南京航空航天大学
Nanjing University of Aeronautics and Astronautics



Power Grid System



国家电网
STATE GRID



中国南方电网
CHINA SOUTHERN POWER GRID



柳电国际
CHENDIAN INTERNATIONAL



内蒙古电力(集团)有限责任公司
INNER MONGOLIA POWER (GROUP) CO.,LTD



山西地方电力有限公司
SHANXI LOCAL ELECTRIC POWER CO.,LTD



Oil & Gas Industry



中国石油



华峰



兰太实业
LANTAI INDUSTRY



赛科 SECCO



CNSG
中盐集团



1 Hour
Rapid Response



24 Hours
Customer Demand Response



12 Hours
Engineers On-Site



360°
One-Stop Solution



Steel, Metallurgy & Mining Industry



福建三钢



湖北新冶钢



中钢集团



伊泰



中国黄金
China Gold



青拓集团
TSINGTUO GROUP



晋能控股煤业集团
JINENG HOLDING COAL INDUSTRY GROUP



中国煤炭科工集团



淮北矿业



淮南矿业



New Energy Power Industry



国家电投
SPIC



CHINA TOWER
中国铁塔



中国大唐集团公司
China Datang Corporation



中国三峡
China Three Gorges Corporation



甘肃省景泰川电力提灌管理局

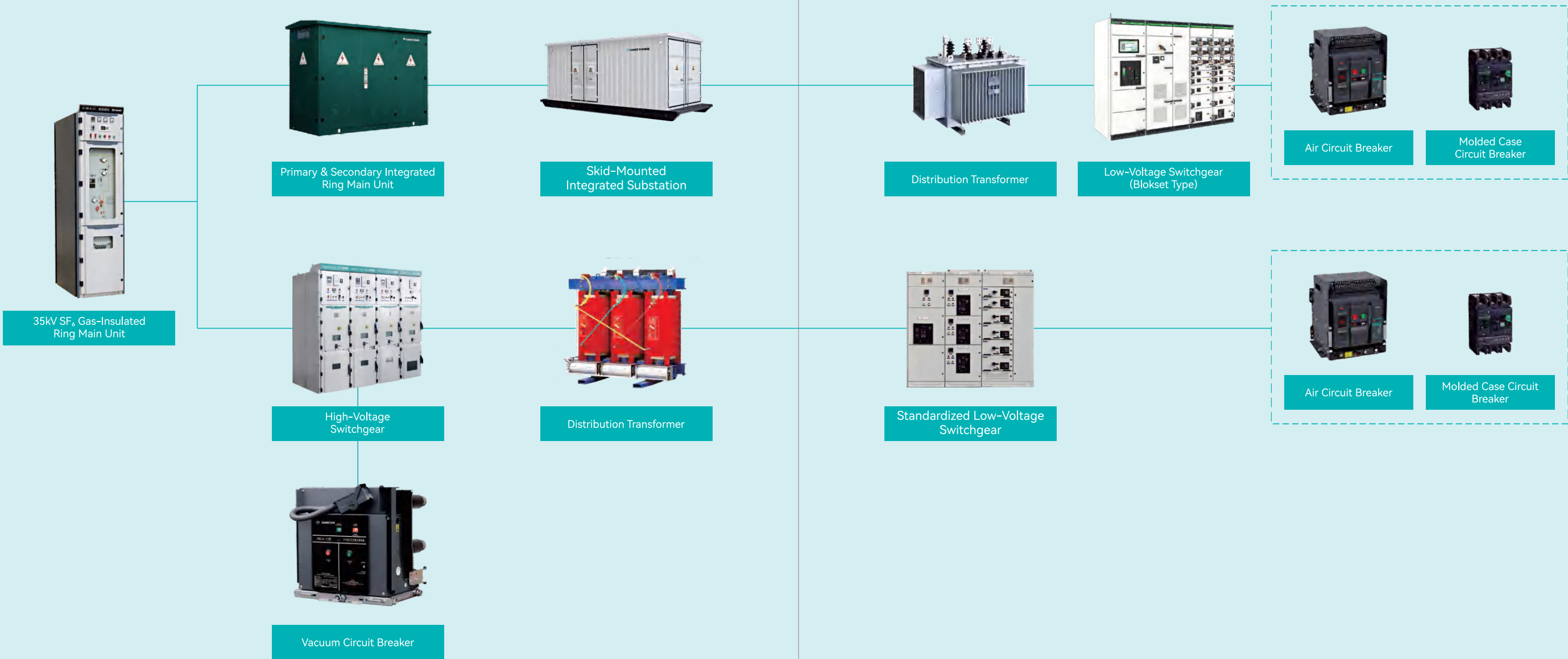
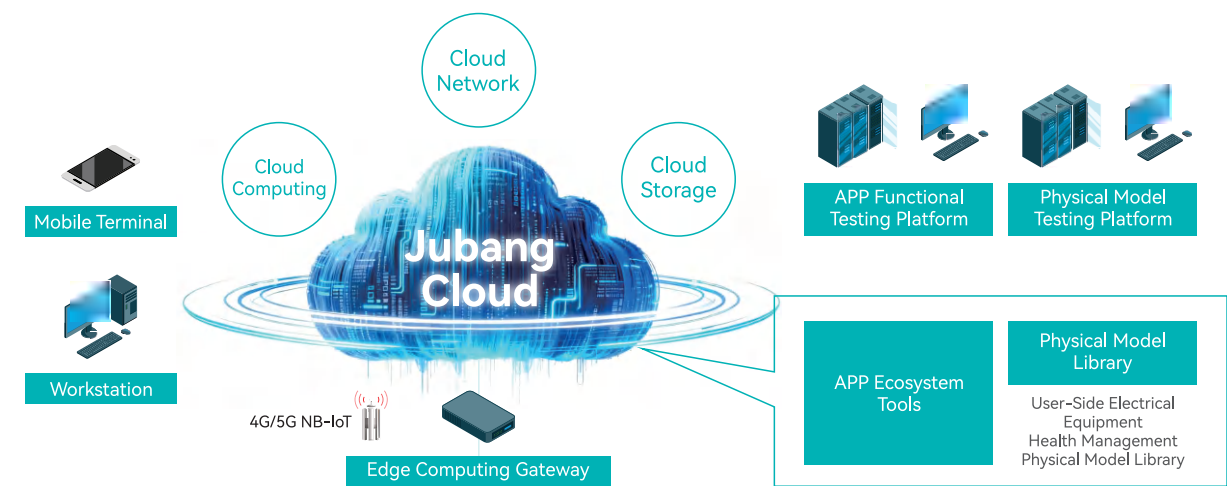


中国葛洲坝集团
CHINA GEZHOUBA GROUP

Intelligent Electrical System

Jubang Group specializes in the manufacturing of power distribution equipment up to 35 kV and below, with a complete industrial chain covering intelligent complete switchgear, primary–secondary integrated products, distribution transformers, box-type substations, and electrical components.

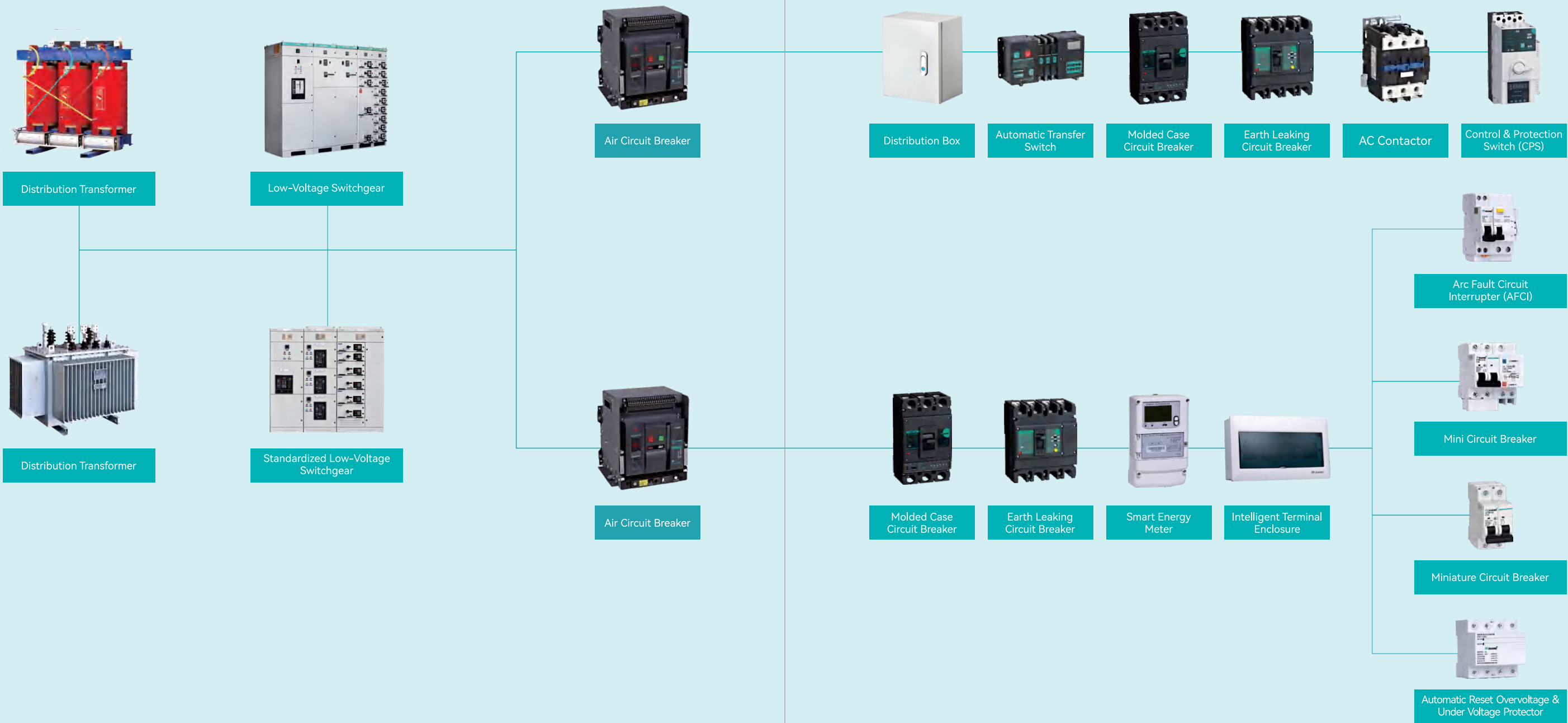
The cloud platform, a flagship product of the company’s digital transformation, has been recognized as a provincial-level industrial internet platform. It integrates six core management modules—real-time monitoring, operation & maintenance management, energy management, health management, asset management, and electronic archives—and is deeply integrated with equipment to deliver comprehensive intelligent electrical system solutions.



Industrial & Civil Construction Industry Solutions

With the rapid development of the social economy, in addition to ensuring reliable power supply, energy conservation and environmental protection are increasingly emphasized. Jubang leverages its advanced intelligent cloud platform, integrating self-developed air-insulated switchgear, prefabricated low-voltage distribution equipment, intelligent circuit breakers, dual-power automatic transfer switches, and other product series.

Through real-time monitoring of power equipment operating status, maintenance costs are effectively reduced, delivering digital and intelligent solutions for industrial and civil construction sectors. Typical applications include high-rise residential communities, training bases for aviation and navigation, Geely Innovation Headquarters Building, Pinghai Ocean Science and Technology Cultural Center, and Zhongshan Power Supply Projects, among others.

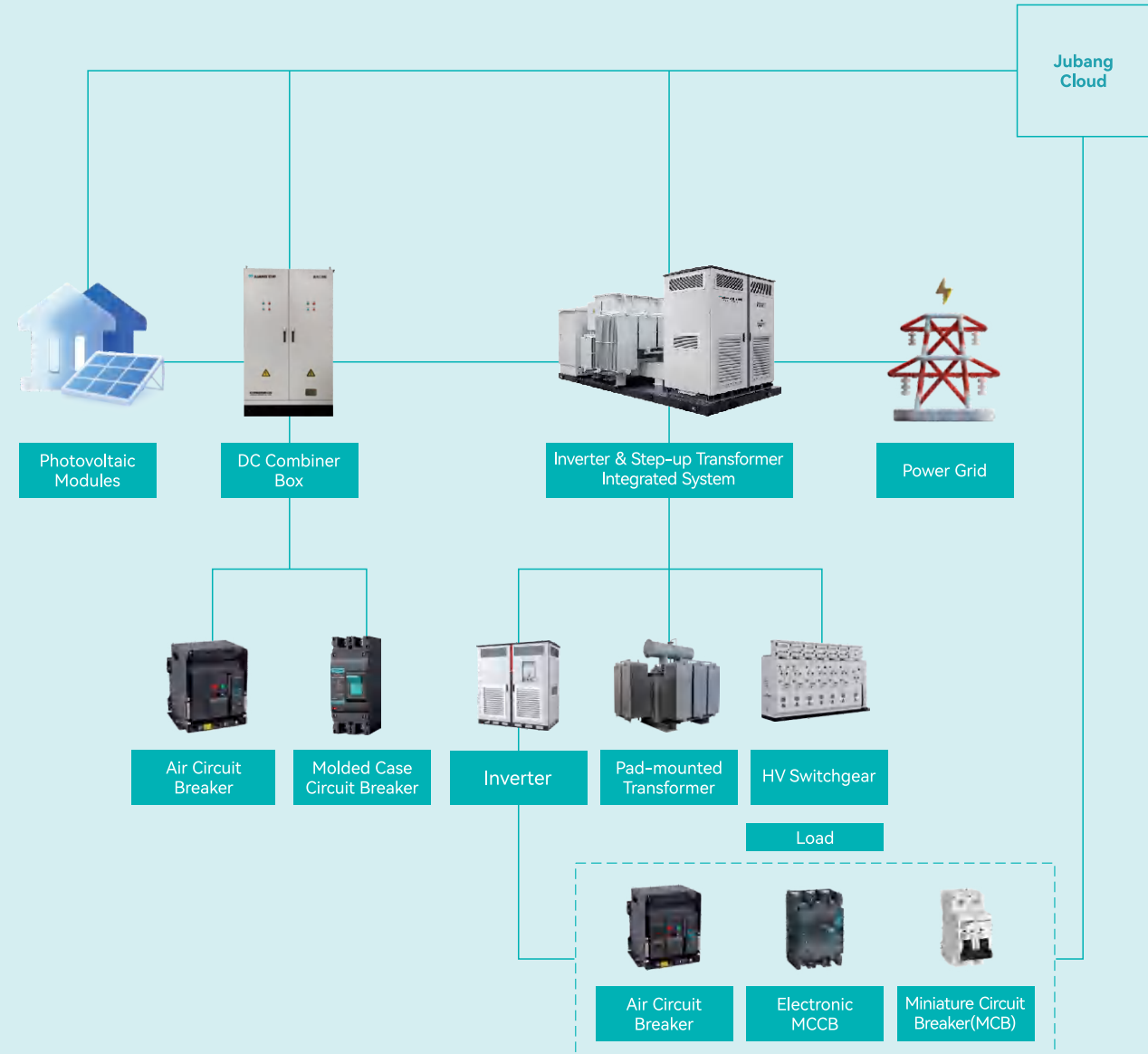


Energy Industry Solutions

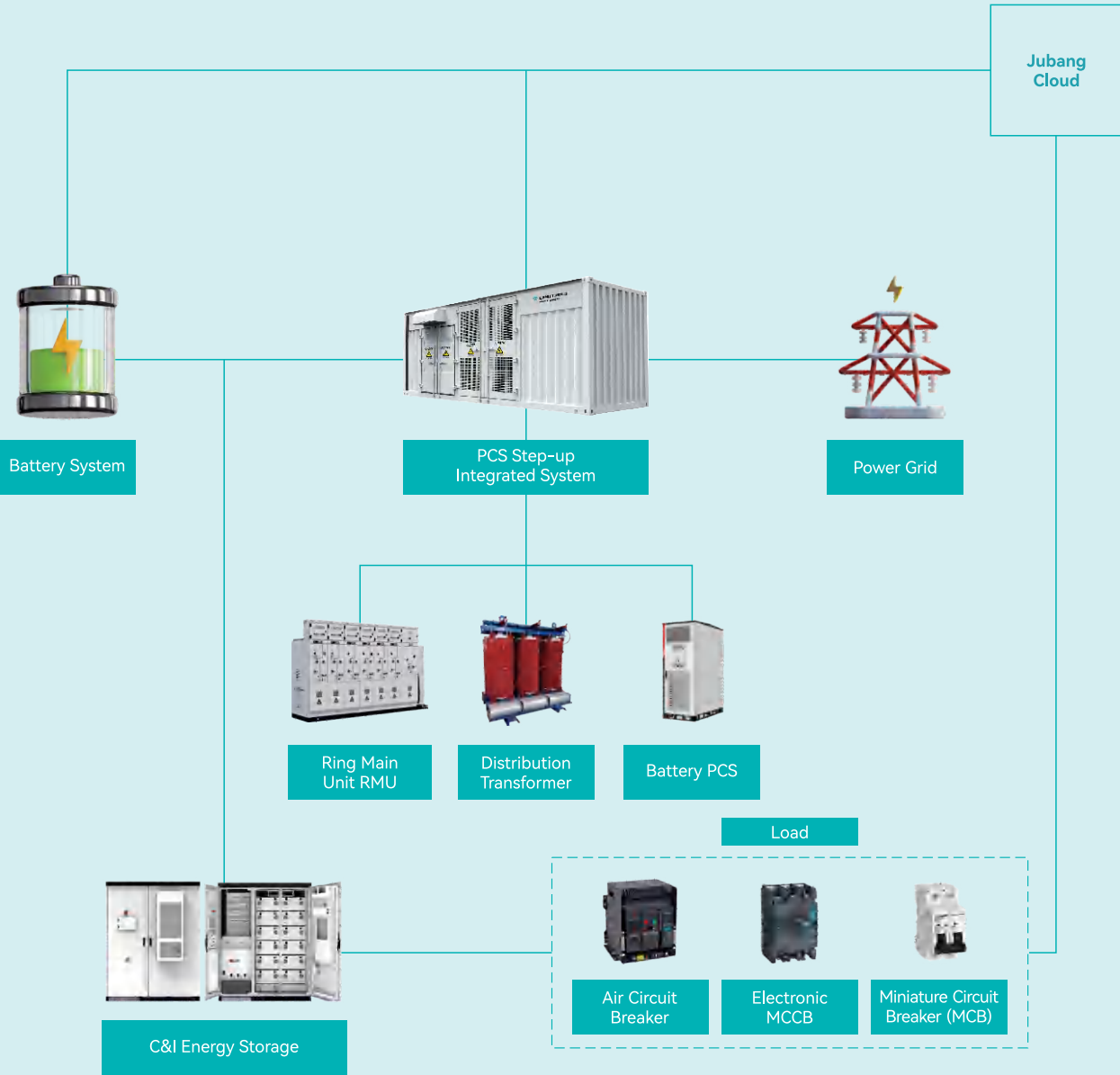
In response to national “dual-carbon” policies, Jubang integrates intelligent process monitoring and control technologies with independently developed oil-immersed transformers, dry-type transformers, DC circuit breakers, AC circuit breakers, and dual-power automatic transfer switches.

While ensuring efficient energy utilization, these solutions improve power supply reliability, reduce maintenance costs, and enhance user safety, delivering intelligent solutions for the new energy sector.

Photovoltaic Power Generation System Solutions



Energy Storage System Solution



GT-HRM-12

Environmentally Sustainable Gas-Insulated Ring Main Unit (RMU)

High Strength
High Sealing Performance

Flexible and
Versatile Expansion Design



1 Overview

1.1 Scope of Application

In recent years, with the increasing global awareness of environmental protection and the continuous advancement of environmental governance, governments have strengthened supervision in environmental protection. The power industry is required to reduce greenhouse gases such as SF₆ and address issues related to fluorinated waste. The traditional SF₆ insulation method used in switchgear will gradually be replaced, and environmentally friendly gas-insulated switchgear has become an inevitable trend.

GT-HRM-12 environmentally friendly gas-insulated ring main unit is a 12 kV eco-friendly gas-insulated RMU independently developed by Jubang Group to meet national grid standardization requirements. Based on the principles of safety, reliability, durability, and interchangeability, it improves operation and maintenance reliability. The product adopts advanced manufacturing equipment and technology, offers flexible configurations, and supports both unit-type and common-tank structures. It uses environmentally friendly gas instead of SF₆ as the insulating medium, solving the problem of SF₆ leakage and pollution, shortening delivery cycles, and receiving wide customer recognition.

1.2 Installation Conditions

Altitude: ≤ 2000m
Ambient temperature: -40°C to +40°C; 24-hour average temperature not exceeding 35°C
Relative humidity: 24-hour average ≤95%; monthly average ≤90%
Installation environment: free from explosive and corrosive gases, no open flames; no severe vibration or impact at the installation site
Seismic resistance: 8 degree; horizontal ground acceleration 0.4g, vertical ground acceleration 0.2g
Note: If operating conditions exceed the above limits, please contact the manufacturer.

1.3 Product Features and Structure

■ High Strength and High Sealing Performance

The core components of the switchgear are enclosed in high-quality stainless steel tanks welded by laser, ensuring reliable gas tightness, high mechanical strength, and excellent corrosion resistance. The gas chamber protection rating reaches IP67 and is equipped with a pressure relief device to effectively prevent damage to personnel and equipment in case of internal overpressure. All live components are sealed inside the gas tank, avoiding the influence of external environmental factors, improving operational reliability, enabling maintenance-free performance, and meeting compact design requirements.

■ Environmentally Friendly and Pollution-Free

The insulation medium is dry air or 99.99% pure N₂ compliant with GB/T 8979-2008. Gas leakage will not cause environmental impact and does not require recovery treatment.

■ Comprehensive Mechanical Interlocking

Equipped with complete five-interlock mechanical functions. All interlocking mechanisms are internally configured. Please follow the specified operating sequence for safe and convenient operation.

■ Flexible and Versatile Expansion Design

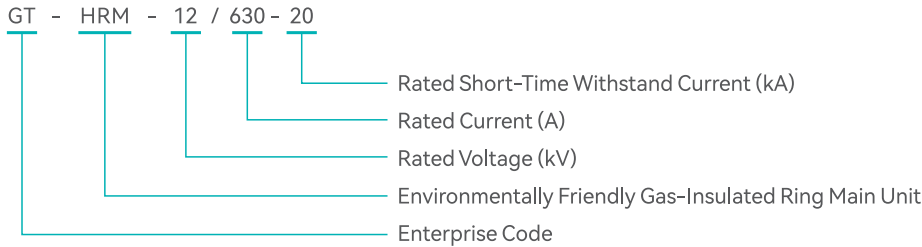
Modular design allows different modules to be connected through dedicated busbar connectors, enabling diversified unit combinations and meeting complex and varied power distribution requirements.

■ Visible Window

- ① The grounding switch observation window adopts optical imaging technology to maximize internal visibility.
- ② Built-in lighting inside the gas tank ensures clear visibility when used with the observation window.
- ③ LED lighting design ensures long service life and reliability.



2 Product Model and Designation

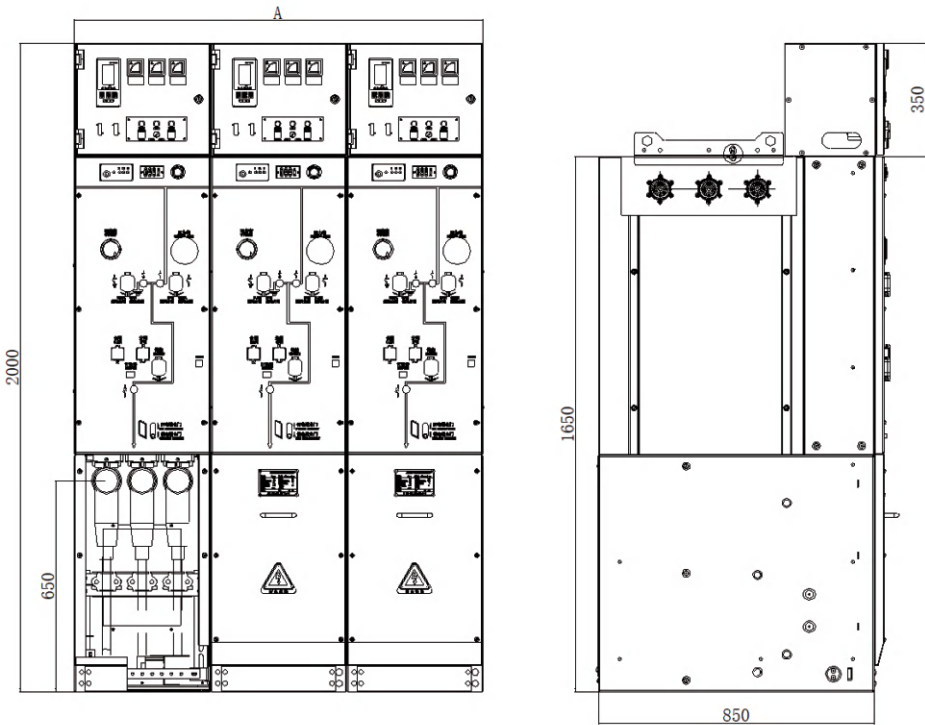


3 Main Technical Specifications

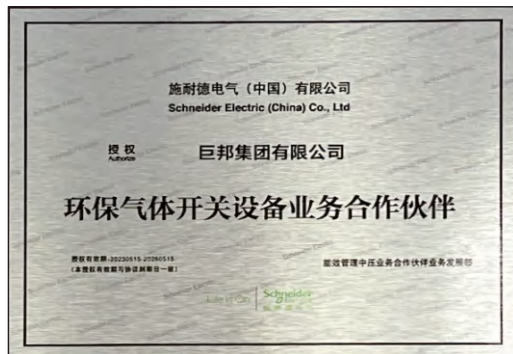
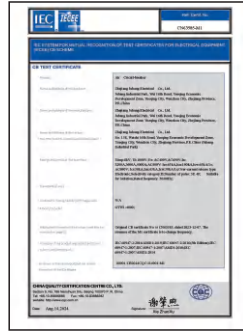
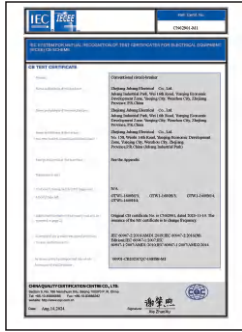
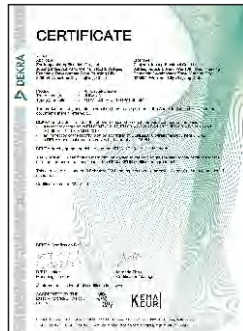
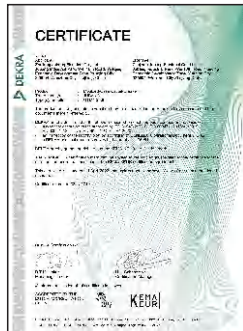
GT-HRM-12 Environmentally Sustainable Gas-Insulated Ring Main Unit (RMU) – Main Technical Specifications

Model		Unit	Circuit Breaker	Load Switch
Rated Voltage		kV	12	12
Rated Current		A	630	630
Rated Frequency		Hz	50	50
Rated Insulation Level	1 min Power-Frequency Withstand Voltage (Phase-to-Phase / Phase-to-Earth)	kV	42	42
	1 min Power-Frequency Withstand Voltage (Across Isolating Distance)	kV	48	48
	Power-Frequency Withstand Voltage (Control and Auxiliary Circuits)	kV	2	2
	Lightning Impulse Withstand Voltage (Phase-to-Phase / Phase-to-Earth)	kV	75	75
	Lightning Impulse Withstand Voltage (Across Isolating Distance)	kV	85	85
Rated Short-Circuit Breaking Current		kA	20	20
Rated Short-Circuit Making Current		kA	50	50
Rated Short-Time Withstand Current		kA	20	20
Rated Short-Circuit Duration		s	4	4
Rated Peak Withstand Current		kA	50	50
Rated Transfer Current		A	—	—
Rated Operating Sequence		—	O-0.3s-CO-180s-CO	
Rated Filling Pressure (Gauge Pressure at 20°C)		MPa	0.02	
Annual Leakage Rate		—	≤0.01%	
Mechanical Life		times	10000	10000
Main Circuit Resistance		μΩ	≤180	≤180

4 Overall Dimensions Drawing



Unit	A(mm)
1 Unit	420
2 Unit	840
3Unit	1260



Note

[illegible]