



Welcome to

RuiYang Group

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Part One



Ruiyang Overview



overview

Founded in 2006, headquartered at No. 79 Daxi Road, Shenhe District, Shenyang City, Liaoning Province

The overall factory area covers an area of approximately 120000 square meters, and the total registered capital of the enterprise is nearly 930 million yuan

The annual design production capacity is over 3 billion yuan, with more than 800 employees and over 100 senior professionals.

Main products:

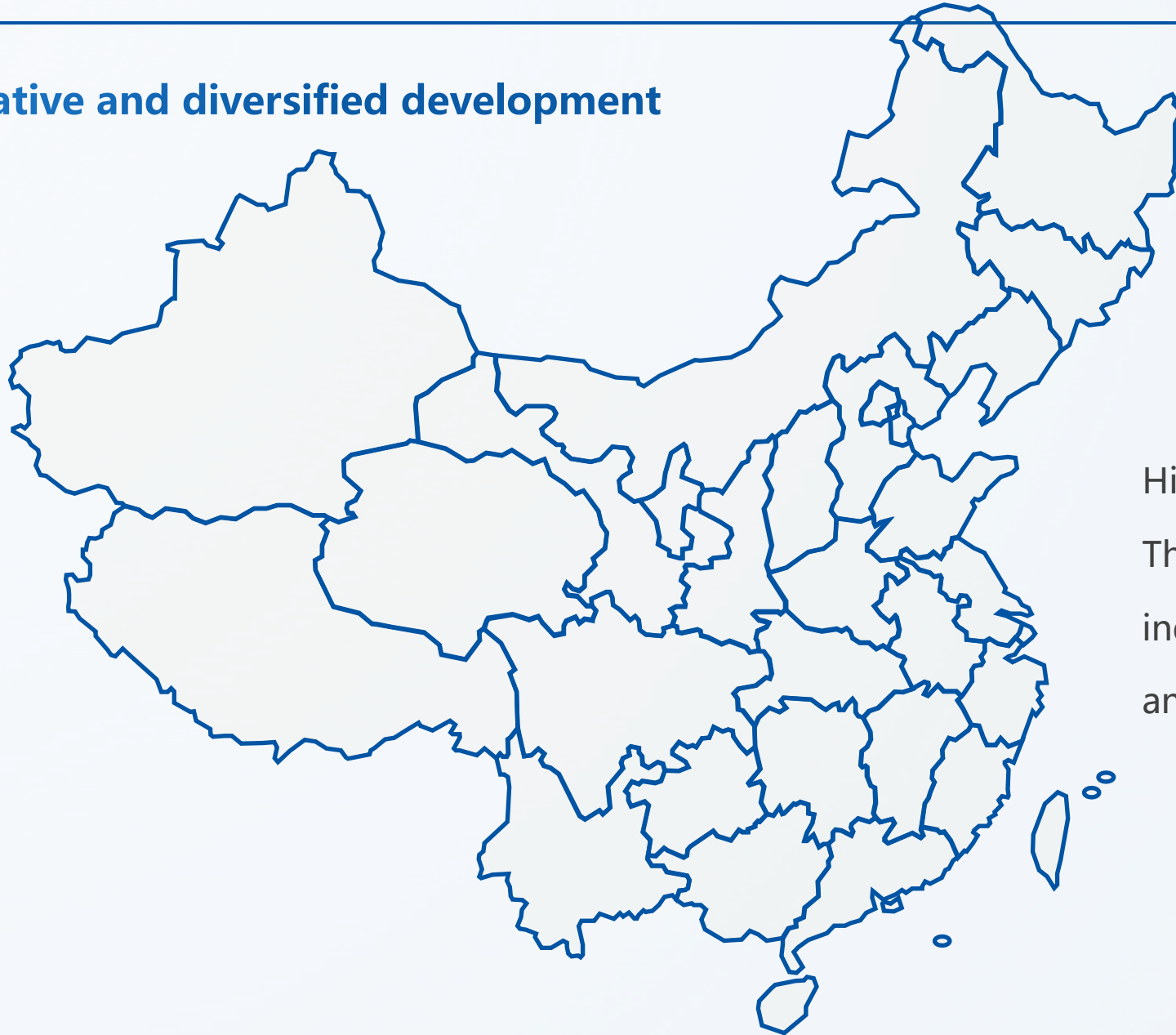
220kV and below power cables, control cables, fireproof cables, overhead insulated cables, steel core aluminum stranded wires, rubber sheathed cables, special cables, etc

A comprehensive, modern, and innovative enterprise group that focuses on the research and development of wire and cable production and services, covering various fields such as engineering construction, new energy, energy conservation and environmental protection, and organic agriculture





Innovative and diversified development



Higher level electrical products
The innovation chain and
industrial chain of production
and research and development



General layout





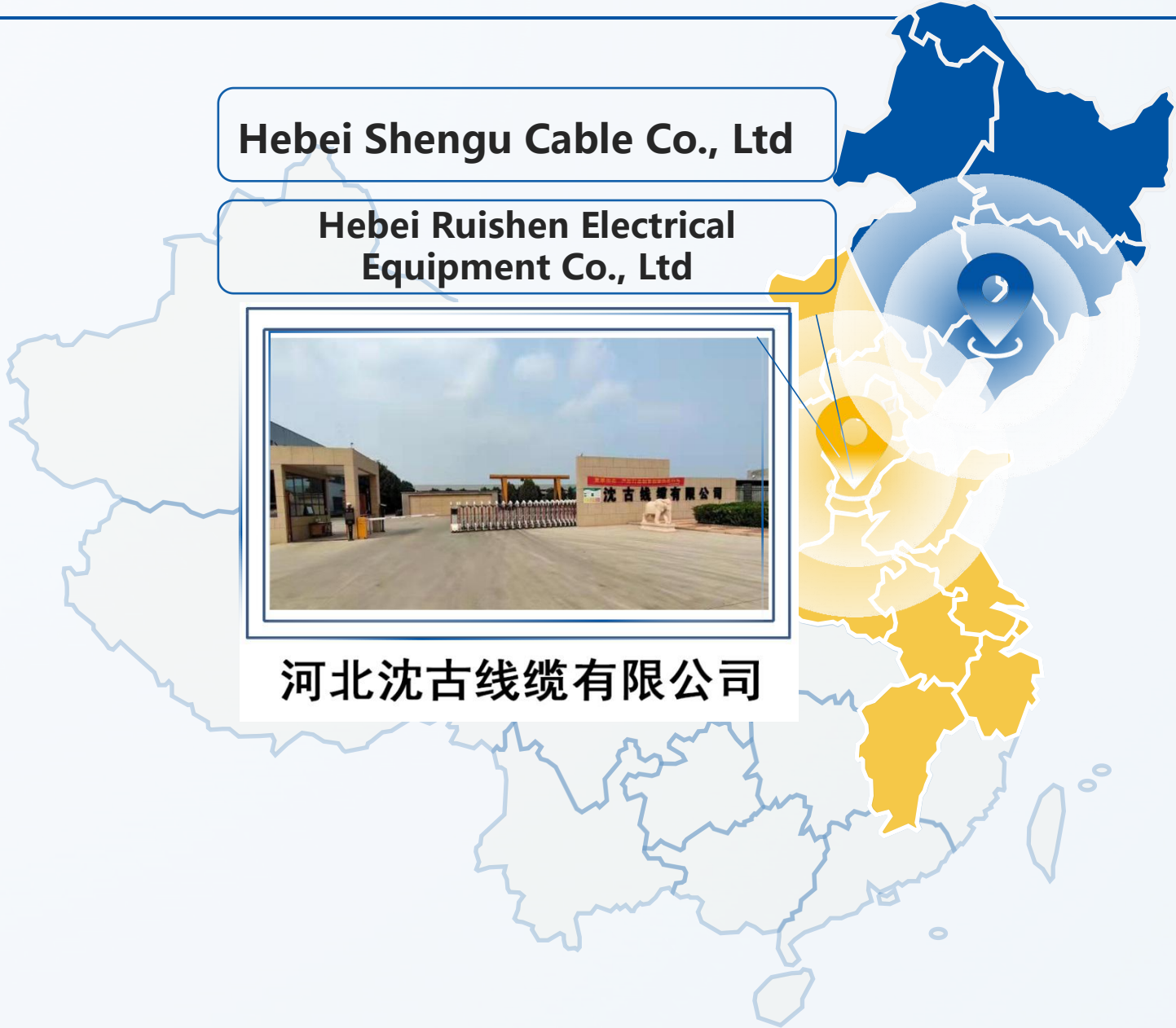
General layout

Hebei Shengu Cable Co., Ltd

**Hebei Ruishen Electrical
Equipment Co., Ltd**

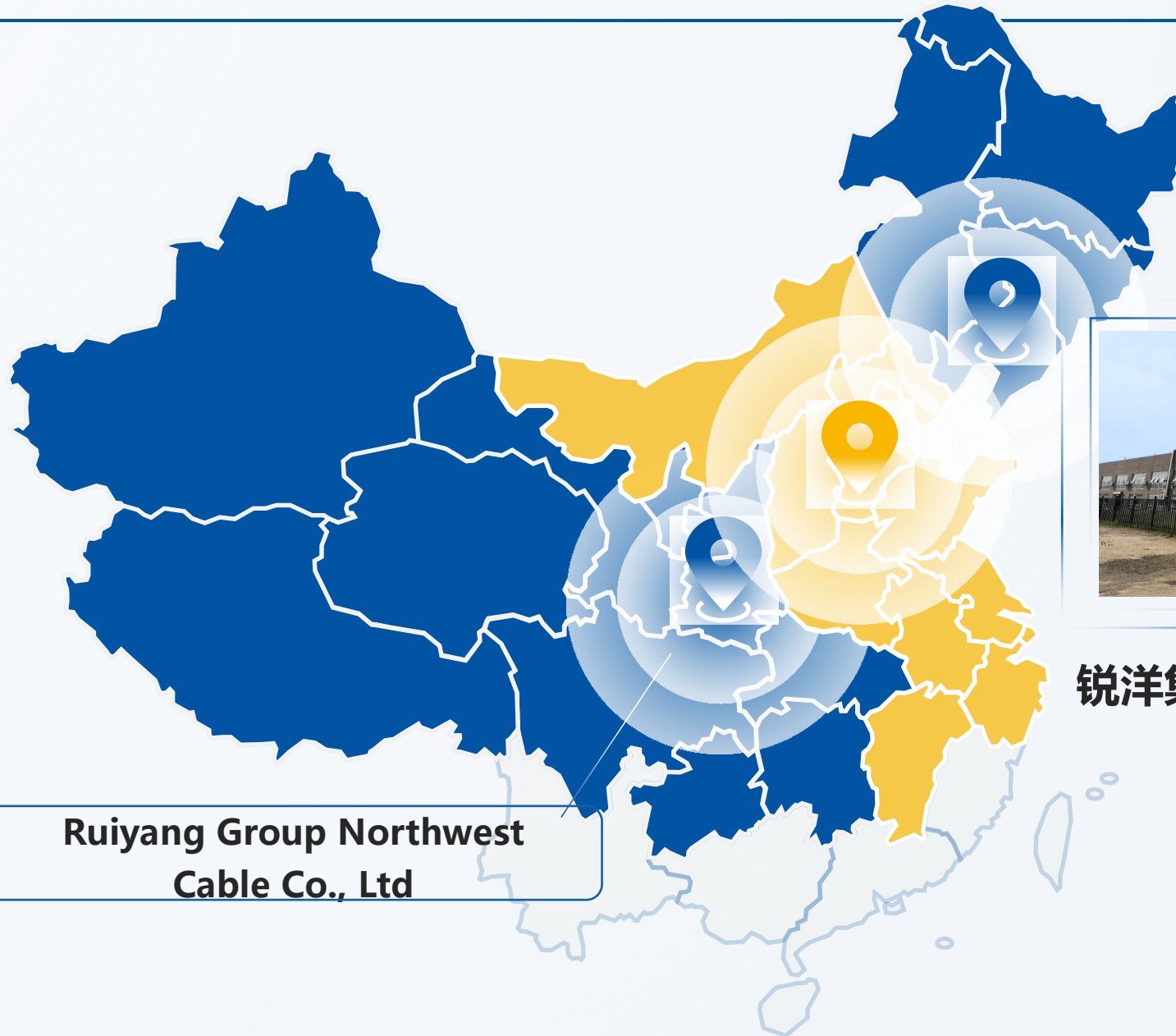


河北沈古线缆有限公司





General layout



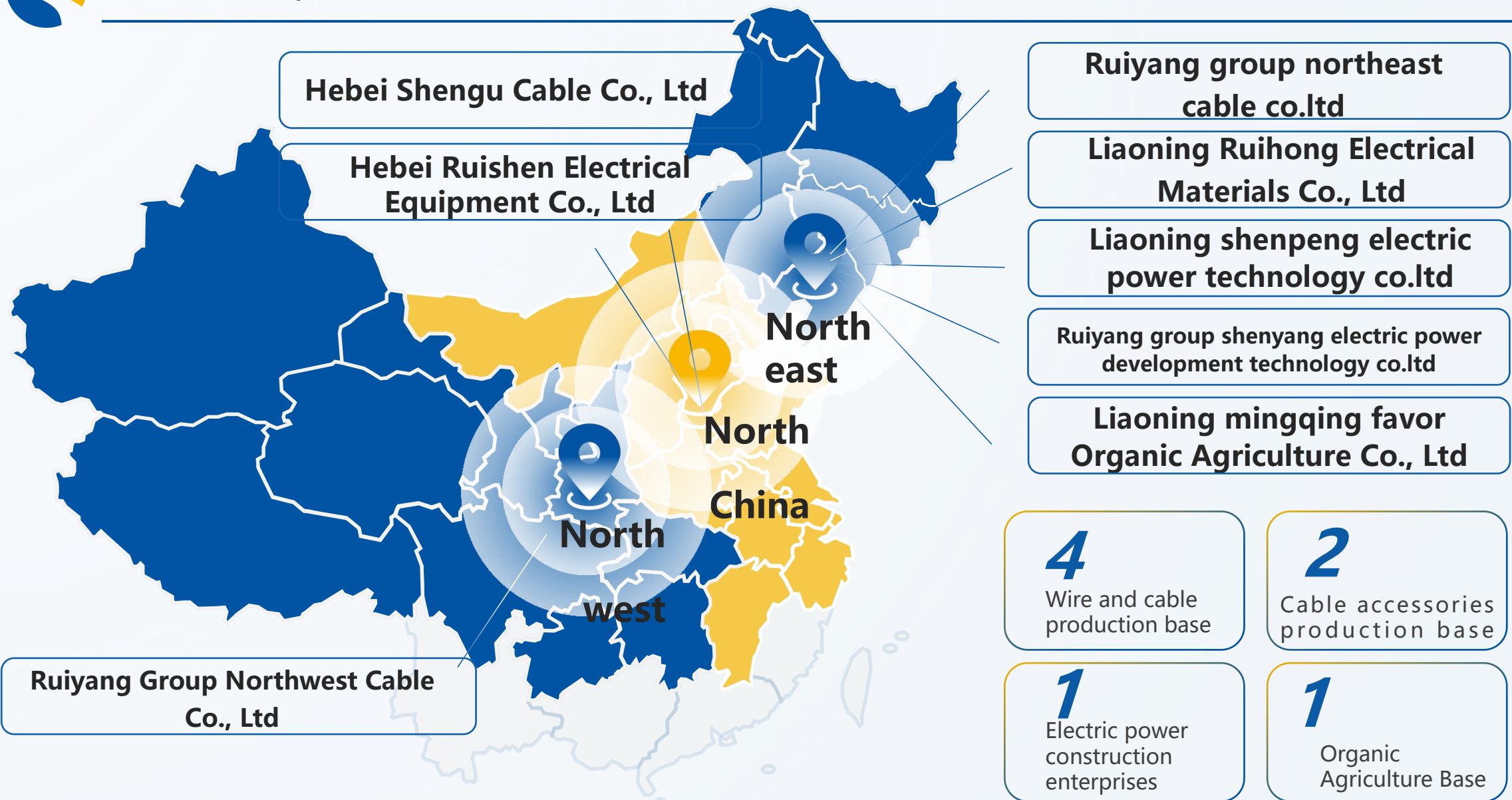
**Ruiyang Group Northwest
Cable Co., Ltd**



锐洋集团西北电缆有限公司



General layout





Development

Milestones

2007年

Shenyang Plastic Power Cable Co., Ltd. Cable Manufacturing Branch Established

2014年

Ruiyang Group Northwest Cable Co., Ltd Production and operation

2016年

Upgraded start-up factory and renamed cable manufacturing branch Northeast Plastic Power Cable Co., Ltd

2006年

Shenyang suli cable co.ltd (Ruiyang group parent company) Incorporate

2013年

Ruiyang Group Established
Ruiyang Group Northeast Cable Co., Ltd. officially put into operation

2015年

Marketing strategy transformation and upgrading
Establish State Grid Business Unit, New Energy Business Unit
Rail Transit Business Unit
Forming a three-dimensional marketing layout



Strengthening the Three Guarantees

Ruiyang quality

Three major guarantees for overall development, scientific control to ensure quality



By means of quality guarantee , cost guarantee , and delivery guarantee
Strictly ensure production quality



Our group initiated a joint venture with more than 20 companies in the same industry to establish the Northeast Electric Wire and Cable **Centralized Procurement Alliance**, enhancing bargaining space and effectively reducing procurement costs.

Adopting **hedging** measures to avoid the risk of rising raw material prices; Some auxiliary materials are produced by subsidiaries themselves, forming a multi-level and multi means procurement cost control system.

Adhere to the principle of **reducing costs and increasing efficiency**, deeply grasp the "seven major wastes", control the three major costs, and implement cost indicators into the KPI assessment system of each department.

Strict cost control and guarantee

Optimize the pricing system





COST ASSURANCE

**Full
capacity**

**Custom
Service**

**Distribution
efficiency**

**Highly
skilled**

**Management
Lean**



Cost Assurance

Sufficient production capacity

The production base mainly has 252 sets of cable production equipment, including 8 lines of 10kV-220kV cross-linking unit, 40 sets of stranded wire equipment, 56 insulation, sheath and other extrusion production lines, 32 sets of cable forming equipment, more than 100 sets of weaving equipment, drawing equipment, bundle equipment, armor, shielding and other equipment





Improving employee skills

1

**Collaborating between schools
enterprises
importing highly skilled talents**



2

**Cultivate in multiple ways
to help employees improve their skills**





Motivating employees to create production

3

The group organizes skill competitions every year, through which outstanding employees who usually work hard stand out and select elite craftsmen with truly exquisite skills.



4

The establishment of the Liaoning Province Wire and Cable Industry Skills Appraisal Center is of great significance for selecting excellent and highly skilled talents in the industry and improving vocational skill standards.





Provide customized products and services for customers with different needs



Establish a professional research and development team, develop personalized products targeted, and ensure the applicability and pertinence of the products

Product customization



From the arrival of raw materials to the production process, process control, inspection and testing, and full tracking of packaging logistics by the Deputy General Manager of Production



Implement VIP customer contract project responsibility system



The Chief Engineer or Director of the Technical Department shall cooperate throughout the entire process to provide pre-sales, sales, and after-sales technical services



On site construction technical guidance (use of specialized equipment) and follow-up service technical Q&A

Service customization

Part two



Project and Performance



Main performance

Long term cooperation with large domestic enterprises,

The total order amount accounts for over 70% of the overall cable sales



The group has a wide range of product and service fields, including energy, transportation, communication, petrochemical, metallurgy, engineering, etc. The products are exported to Pakistan, Malaysia, Congo (Kinshasa), Türkiye, North Korea and other countries and regions.



Transportation and communication



**China Iron Tower Hubei
Company 5G Base Station
Construction Project**



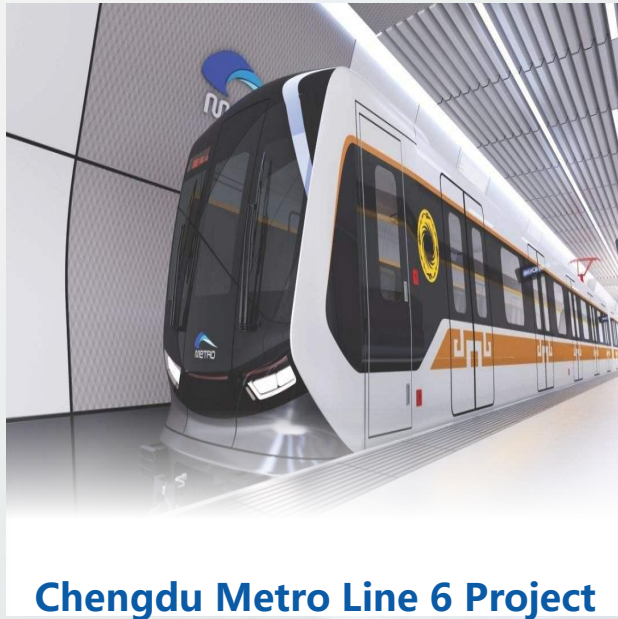
**China Mobile Ningxia Data
Center Project**



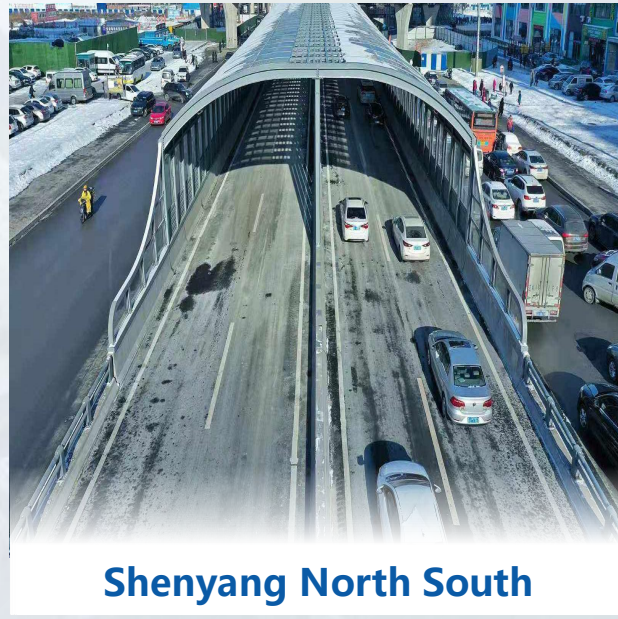
**Shanxi Province Headquarters
One Hub Expansion Project**



Transportation and communication



Chengdu Metro Line 6 Project



**Shenyang North South
Expressway Project**



**Jilin High Speed Railway
Station Project**



Petrochemical and Metallurgy Project



**Ruiheng Carbon III Industry
Phase I Project 65000 tons/year
Phenol Acetone Project**



**Qinghai Asia Silicon
Semiconductor Company. 60000
ton electronic grade
polycrystalline silicon Phase I
project**



**Xinjiang Zhong'an Xinzi Gas
Energy Conservation Project**



Performance in the field of New Energy Resources



**China Power Chaoyang 500 MW
Photovoltaic Power Generation
Demonstration Project**



**North China Power Shijiazhuang
Zanhuang 250 MW Photovoltaic
Composite Project**



CGN peace mountain Project



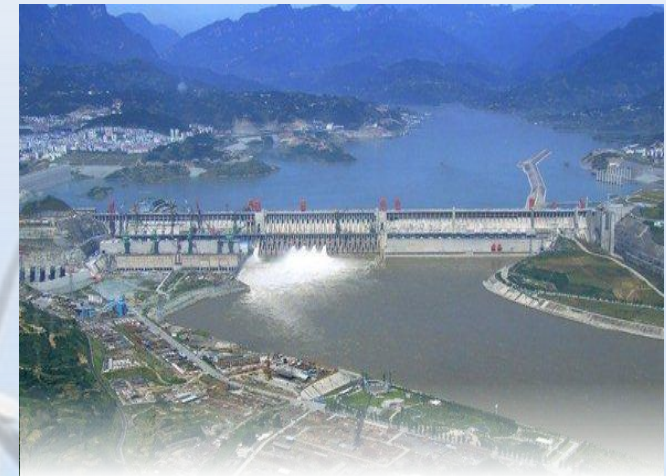
Performance in the field of New Energy Resources



Datang Qinghuiling Wind Power Project



Huaneng Qidong Wind Farm Phase I



Gezhouba Hydropower Station and Three Gorges Hydropower Station Project



Overseas project



**Inner Mongolia Shanghai
Yicoltan Recovery Plant Project**



**Shangang Group Energy Power
110kV Transformation Project**



**Boye Group Vietnam Hefa
Steel Project**



Overseas project



**Malaysia Selangor Floating
Photovoltaic Project**



**Malaysia Johor 25MW
Photovoltaic Power Generation
Project**



**Bangladesh Mirsarai 150MW Dual
Fuel Power Plant Project**



Overseas project



**40MW Coal fired Power Plant Project of
Türkiye Veraca Paper Plant**



**Malaysia Tengjialou Ground
Photovoltaic Project**



Bangladesh GF Engineering Project



Main cable terminations' projects

Time	Purchasing unit	amount	Type
Nov 21, 2022	Shanxi Zhongshen Construction Co., Ltd	12	110kV 1 * 630 composite casing termination





Main cable terminations' projects

Time	Purchasing unit	amount	Type
Feb 1, 2023	Shanxi Longhai electric Construction Co., Ltd	20	110kV 1 * 630 composite casing termination





Main cable terminations' projects

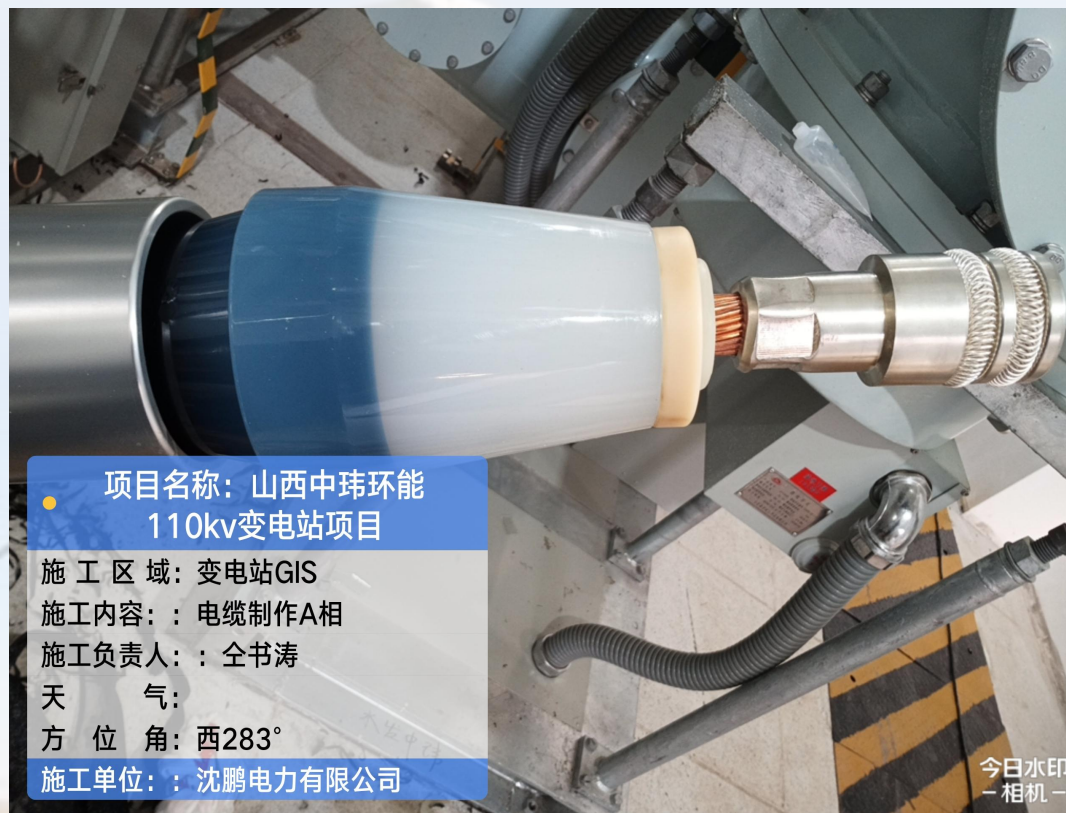
Time	Purchasing unit	amount	Type
Apr 5, 2022	Haojia electric Construction Co., Ltd	6	110kV 1 * 630 composite casing termination





Main cable terminations' projects

Time	Purchasing unit	amount	Type
Nov 22,2021	Jinan chengtuo economic trade Co., Ltd	6	GIS electric cable termination





Main cable terminations' projects

Time	Purchasing unit	amount	Type
Nov24,2021	Zhongrui Zhenda Electric Power Equipment Co., Ltd.	18	66kv 1*630 composite bushing termination





Main cable terminations' projects

Time	Purchasing unit	amount	Type
July 11,2022	Shanxi jinbang structure development Co., Ltd.	120	110kv 1*630 outdoor sitting termination



● 武乡涌新110kV线路46号-47号改造工程

线路名称: 110kv2#塔
施工区域: 户外终端制作
施工内容: : 电缆制作ABC相
施工负责人: : 仝书涛
天气: 阴 11°C
方位角: 西南236°
施工单位: : 沈鹏电力

今日水印
相机



Main cable terminations' projects

Time	Purchasing unit	amount	Type
Apr 2,2022	Shanxi Tedar Engineering Co., Ltd.	18	110kv 1*400 composite bushing termination





Main cable terminations' projects

Time	Purchasing unit	amount	Type
Nov 25,2021	Hunan Hongyuan Electric Power Construction Co., Ltd.	13260	48/66 kv 1*1600 composite bushing type outdoor cable termination





Main cable terminations' projects

Time	Purchasing unit	amount	Type
Aug 24,2022	Hebei Anton Cable Co., Ltd.	25	110kv 1*240 Composite casing termination oil-filled



Part three



Installation process



Process

1、 Site conditions:

The installation of this product should be avoided in humid, dusty, corrosive gas and low temperature environments. If necessary, measures should be taken on site to isolate the impact of adverse environmental conditions on the product installation process. The recommended environmental conditions are:

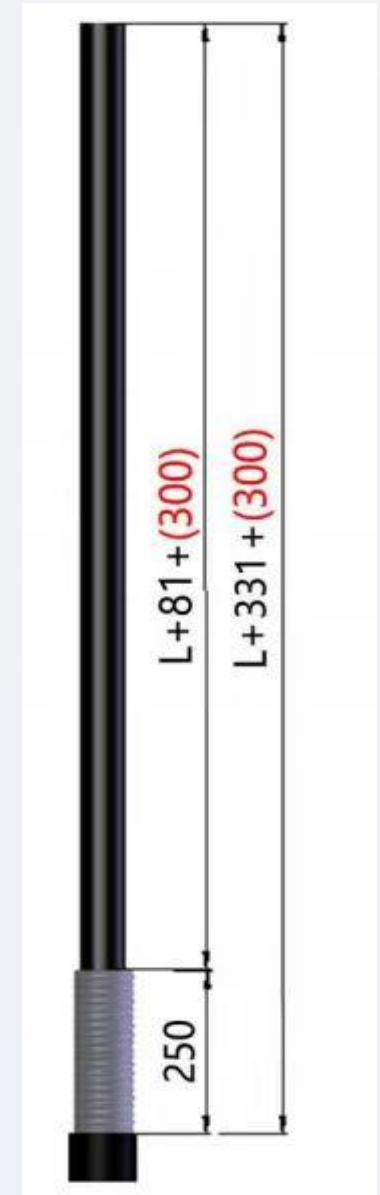
- Air relative humidity <70%;
- There is no obvious dust or corrosive gas on site;
- Ambient temperature > 5° C





2. End of the cable in place:

After the on-site construction conditions are met, fix the cable in place on the installation bracket, reserve a cable 300mm longer than the final installation size at the front end, saw off the excess cable, and strip the cable according to the size of Figure 1 (L2 composite sleeve height) The outer sheath and metal aluminum sheath at the end, round the aluminum sheath at the lower end and remove sharp corners and burrs, retain the semi-conductive resistance hose, and loosen it locally.





3. Cable end heating straightening:

Use the heating and straightening device to heat the part of the cable end except the aluminum sheath, and then use two angle steel buckles to fix and straighten the cable.

Recommended process parameters:

- The heating temperature is 80-90° C;
- Heating time, after the cable reaches the above temperature, keep it for 2 hours;
- Natural cooling to ambient temperature, the time shall not be less than 3 hours.

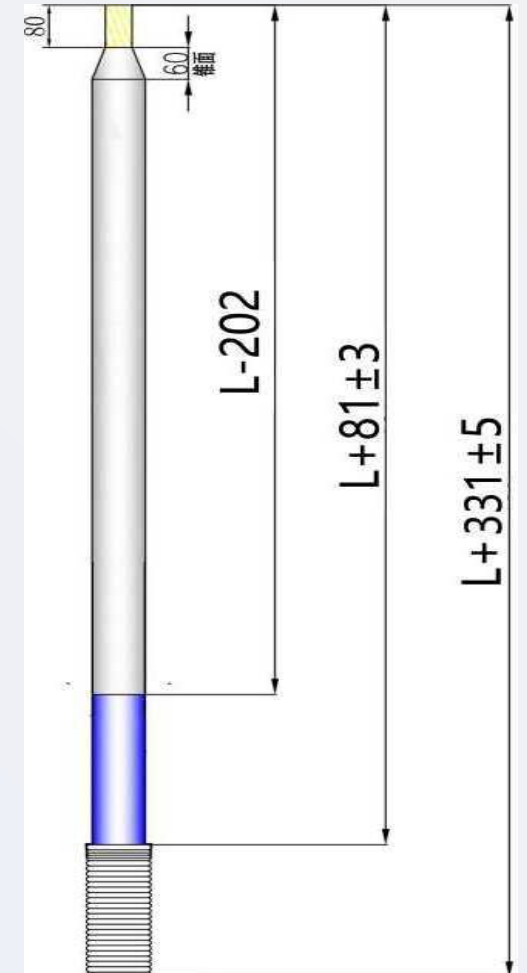


4. Cable end stripping:

The nominal height of the composite casing is L (mm).

Use a dedicated cable cutting knife to peel off the cable insulation and outer semi conductive shielding layer according to the dimensions shown in the figure, and wrap the stripped conductor core with PVC tape.

Uniformly transition to a conical surface within a size range of 30mm at the front end of the semi conductive shielding layer, and it is required that there is no transitional feel at the junction of the semi conductive shielding layer and insulation.

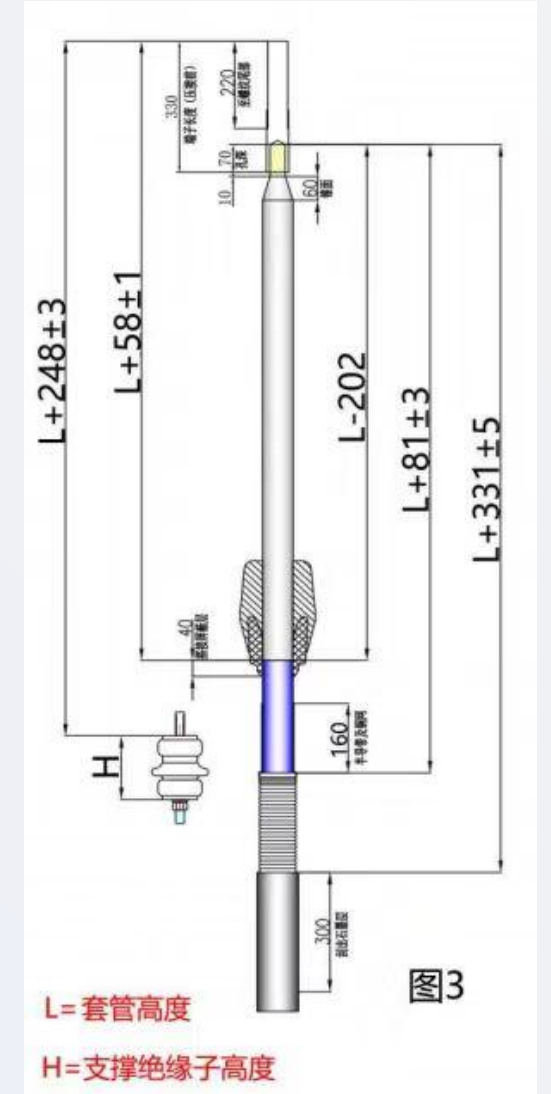
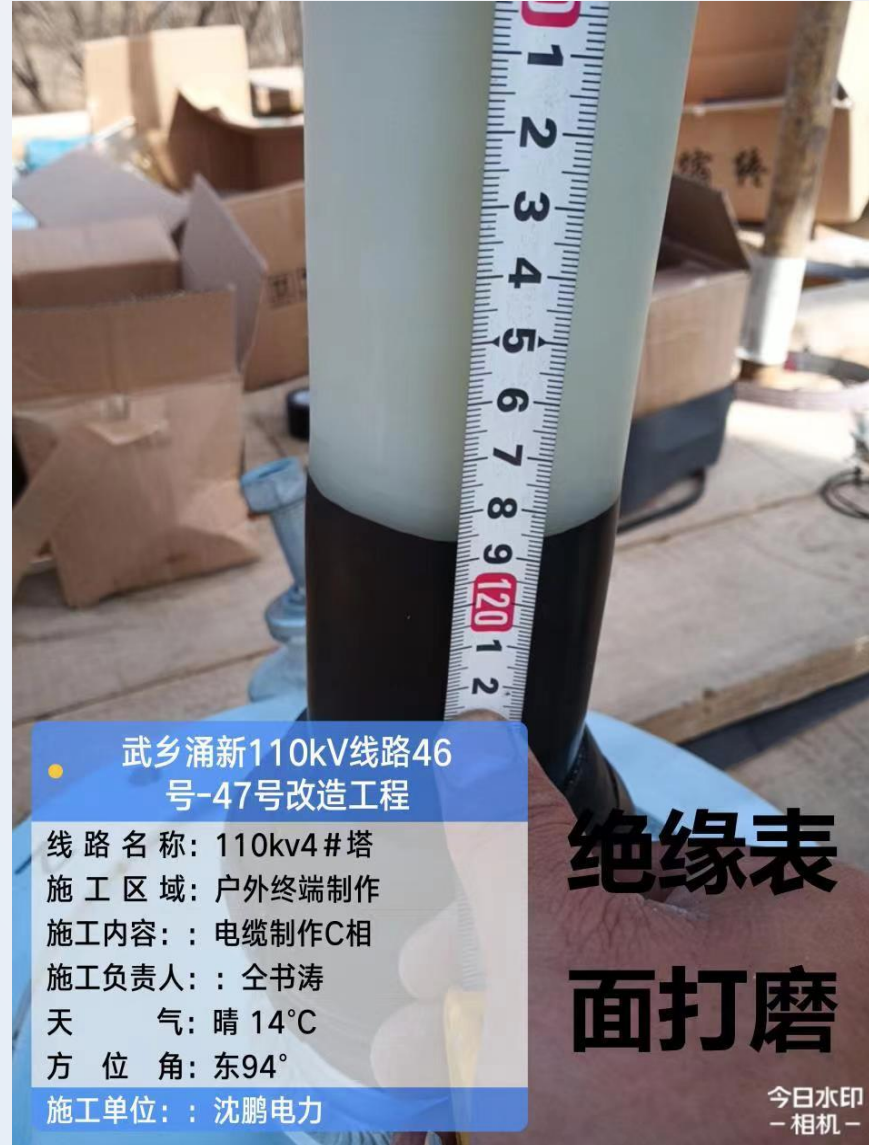




Process

5. Crimping of outgoing terminals and polishing of insulation surface at cable ends

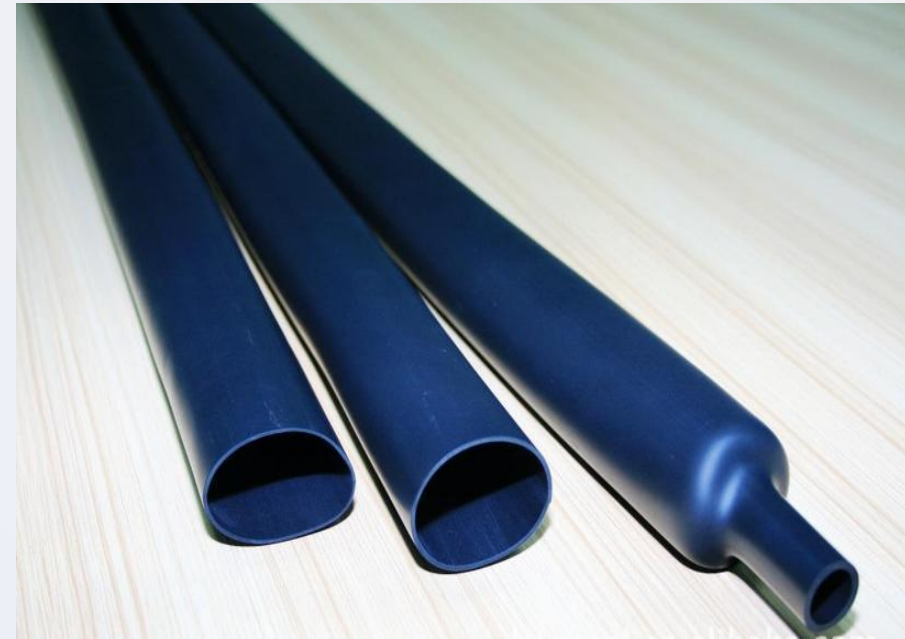
Use 240 #, 320 #, and 400 # sandpaper to polish the insulation surface of the cable and the cut off point of the outer semi conductive shield smoothly. During the polishing process, the sandpaper should be continuously moved rapidly in the axial and circumferential directions to avoid long-term polishing at local positions, which may result in the formation of insulation surface depressions.





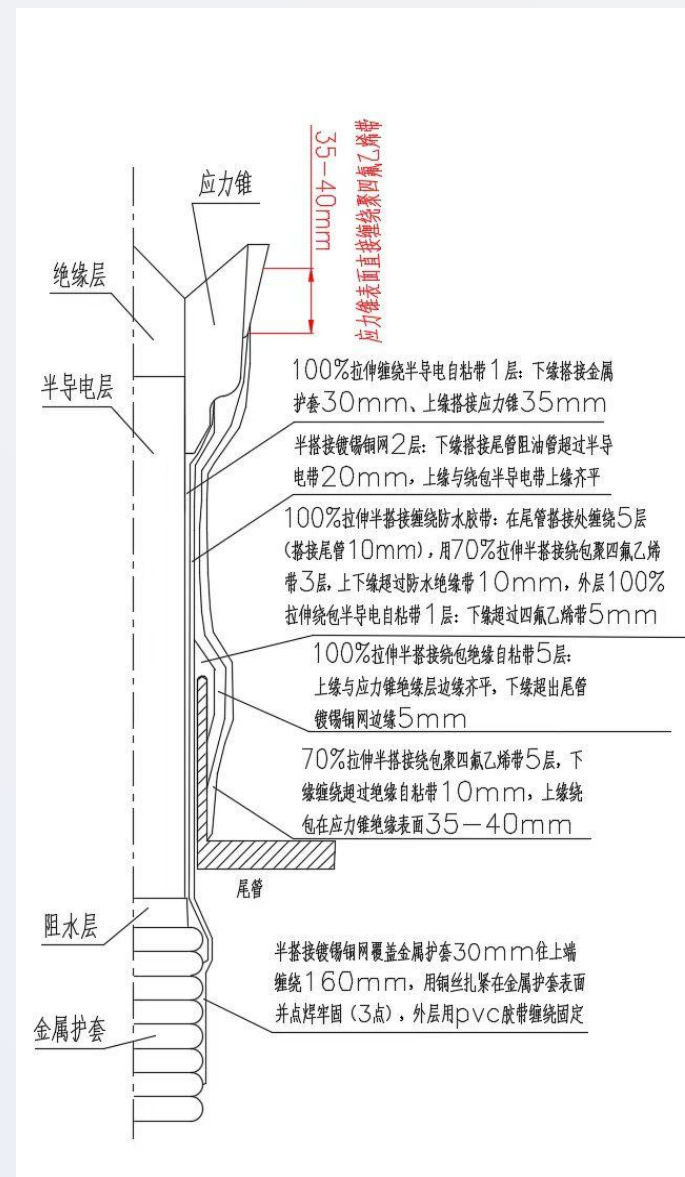
6. Insert some fittings such as tail pipes

Polish the cable insulation, clean all components, and then insert large heat shrink sleeves, tail pipes, small heat shrink sleeves, and sealing rubber gaskets from the cable ends according to the assembly diagram



7. Installation stress cone and sealing treatment of the upper end of the tail pipe:

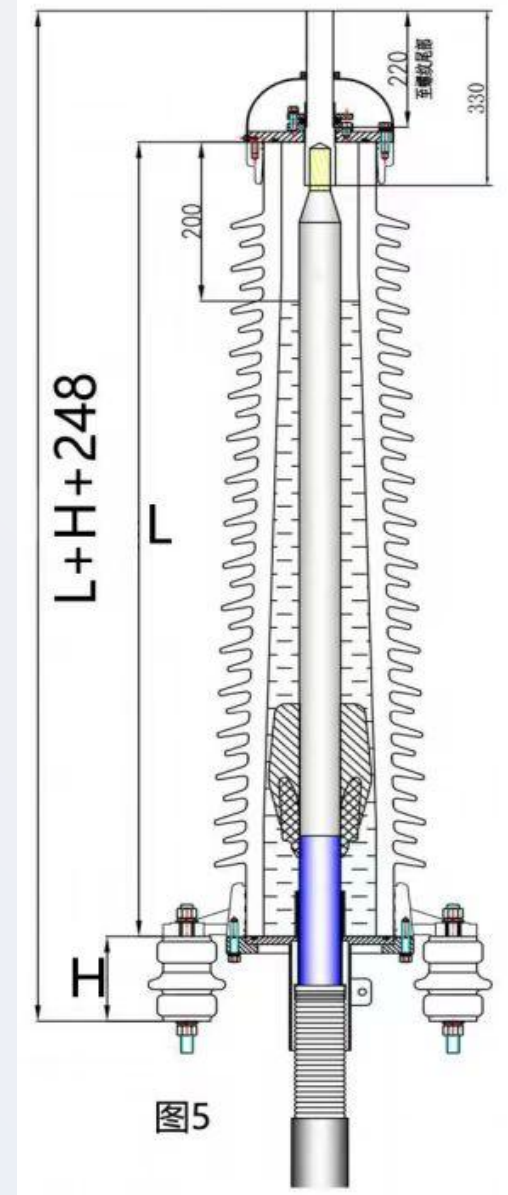
Apply silicone grease evenly to the insulation surface of the cable and the inner surface of the stress cone, and install the stress cone at the specified position shown in Figure 3. Rotate it once to squeeze out the excess silicone grease. Clean the excess silicone grease at the insulation point of the cable end with a special cable cleaning paper, and then wrap the cable end insulation and stress cone with a thin plastic film to prevent dust.





8. Sealing treatment for installation of composite casing and lower end of tail pipe:

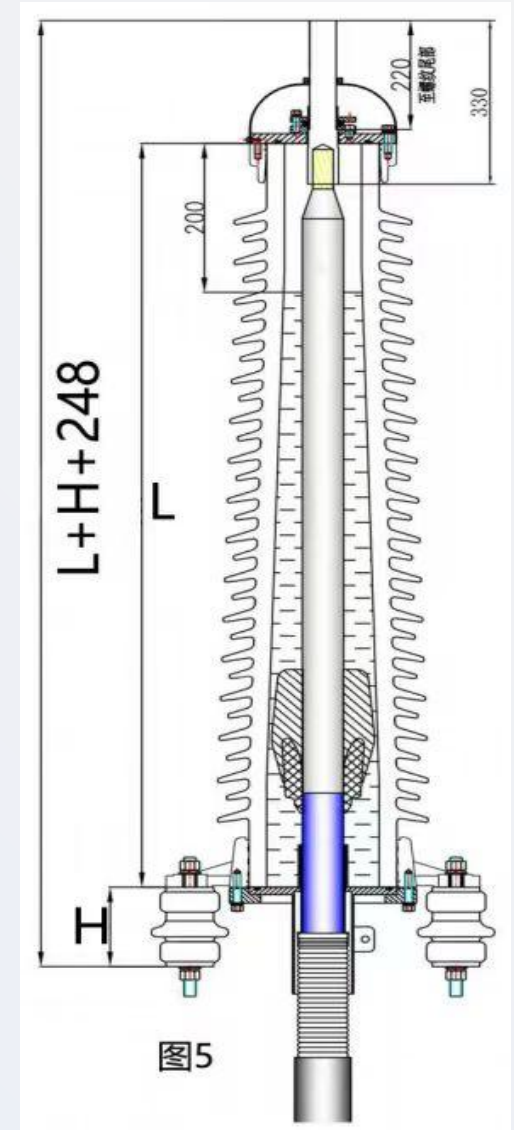
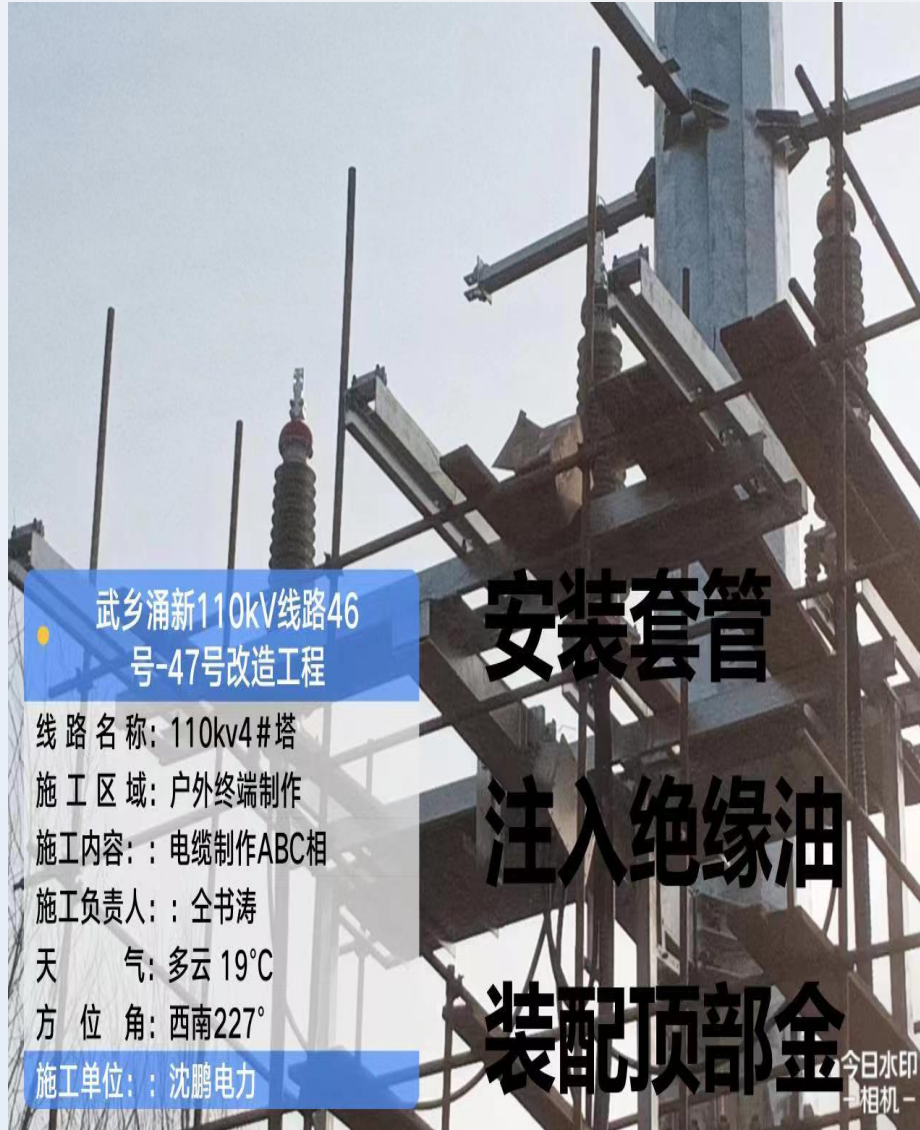
Remove the plastic film, carefully clean the outlet terminals, insulation outer surface, stress cone surface, adhesive PTFE tape surface, and upper surface of the tail pipe with cable cleaning paper, clean the tail pipe sealing ring, and then insert the sealing gasket into the sealing groove of the tail pipe sealing flange.





9. Inject insulation oil:

Pour about 25 liters of polyisobutylene insulation oil into a clean container and heat it to 80°C . Slowly stir while heating to maintain even heating. When the insulation liquid cools to around 3CTC , inject the insulation oil into the composite sleeve. Verify that the distance between the upper liquid level of the insulation oil and the flange on the composite sleeve is $200 \pm 15\text{mm}$





10. Assembly of top fittings:

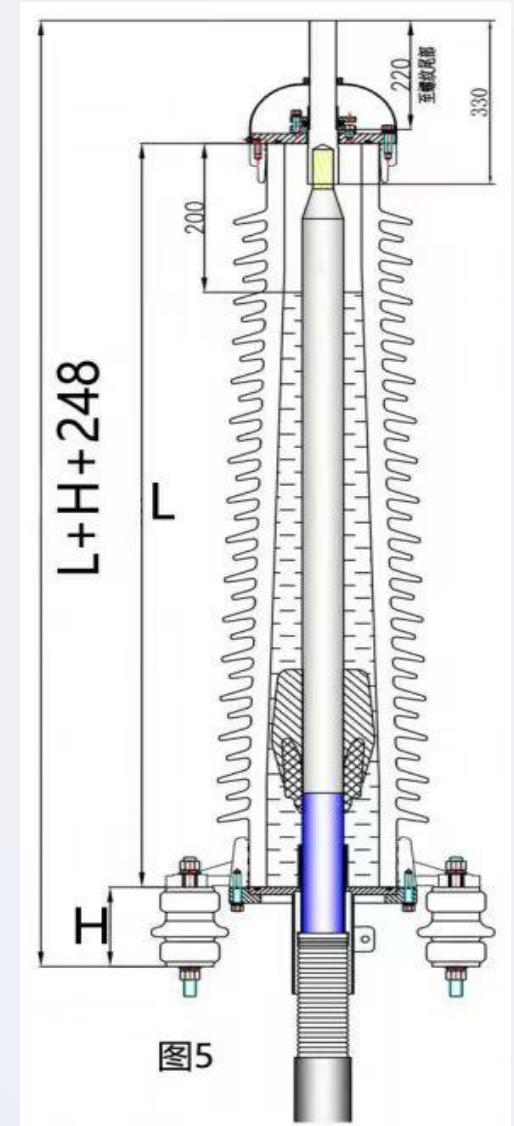
After cleaning the top hardware, insert the rubber washer, sealing flange, rubber washer, sealing pressure plate, and locking nut into the outlet terminal and fix them in sequence. Finally, install a rain shield, rotate and fix the lower screw.





11. Connect the grounding wire:

Tighten the connecting terminal of the grounding wire with bolts and fix it on the reserved grounding terminal of the tail pipe. Wrap two layers of insulation self-adhesive tape and PVC protective tape on the outside of the terminal to complete the sealing and protection of the grounding wire.





Ruiyang looks forward to working with your esteemed company. To create the better future together

The group always adheres to the eight character policy of "unity, standardization, efficiency, and development", adheres to the business philosophy of "honest management, serving society", focuses on providing excellent and first-class customer service, strives to achieve harmonious development with customers, society, and the environment, and towards the grand vision of "creating a first-class enterprise and building a century old brand".



Thanks for your attention