

## COMPANY PROFILE



**TAYEE** is always by your side



## Company profile

## Providing First-class Products, Perfecting Service

Since its foundation in 1997, Shanghai TAYEE Electric Co., Ltd. has been committed to the manufacturing of electrical control products. We are reputed by top quality product and perfect service and are regarded as a leading manufacturer in the field of electrical control product in China. We have been awarded titles such as "Shanghai Emerging High-Tech Enterprise", "Shanghai Mega Technology Cultivated Enterprise", "Shanghai Famous Trademarks", "Shanghai Famous Brand Products", "Shanghai Key New Products" and dozens of honors.

Our company's plant in Songjiang Industrial District has an area of about 15000m<sup>2</sup> to house the staff of 500+. Currently, there are 19 major categories and thousands of products, widely used in machinery, machine tools, electrical, automation, marine, rail transportation and other industries.







## Our Responsibility

While developing our business, we are also very concerned about environmental protection. Our company has passed the ISO14001 Environmental Management System certification. In order to reduce environmental pollution in the production process, we have improved our manufacturing technology and actively implemented the production requirements of the RoHS directive.

## Our Team

TAYEE employs a high-quality sales team for providing considerate and timely service at any corner in China. We specially assign a compliant handling team to response every customer within 24 hours.

Our employees are the asset of the company. TAYEE has been focusing on the development and sustainability for both the business and our employees. Each year, TAYEE Electric will meet the diversified training needs of the employees in their respective positions. Our company will also engage external professionals for training from time to time. All these have improved the quality of the employees and the skills of the management team, so that we can provide better service to the customers.





## Quality Assurance

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## Innovation is our growth momentum

TAYEE has a group of key technical personnel with technical expertise and innovative ideas. Our company has set up an R&D technical center to be responsible for the research and development of new products and technological innovations of the current products. TAYEE launches new products in the market every month. Staff from our technical department will go to the front line of product application to understand the needs of users in order to innovate our products constantly. As such we are always ahead in the industry.

TAYEE products have been awarded with a number of technological patents. The cam switch, warning light products and rail transit PSD security door intelligent indicator were endorsed by Shanghai High-Tech Achievement Transformation Project.





# Scientific management is the necessary requirements for sustainable development of enterprises

Our company has fully implemented the EPR management system for the procurement, production, sales and the financial control. It has improved the overall efficiency in order to achieve the goal of sustainable development.

## Our company has achieved many 'First' in the country

- First company in self-locking connection without fastening mode button production; this has changed the tedious way of using bolts in the past
- First to adopt the IP65 design standards for full range of products, giving unlimited product applications
- First to launch products based on the 16 Indicators screw connection method to avoid the unreliability of welding and inserts
- First in development and production of European warning lights which has been endorsed as new high-tech products
- First to put forward the universal voltage concept which has been successfully applied to the LA42 (S) series of products
- First company to obtain the Classification Society Certificate (The Field of Electrical Control) for full range of products
- First company to introduce the full range of plastic sealed box
- First company to launch combined indicators
- First company to launch sound and light alarm device for platform screen doors





## Quality Assurance

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## Quality is the cornerstone of business survival

As early as in 2000, we have fully implemented ISO9002 quality system, and we passed the ISO9001 in 2002. Our outstanding design capabilities, excellent production and processing technology, together with the comprehensive testing equipment, have ensured that our products are made with reliable quality. Product protection class has attained up to IP65, as well as the CCC, TUV, CCS (Classification Society certification).



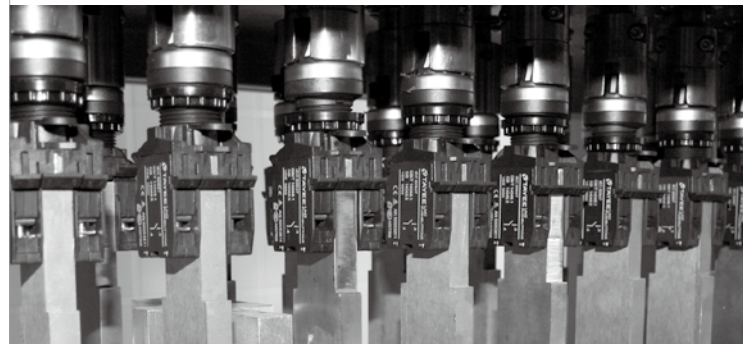


# Sophisticated equipment is a guarantee of quality

We have eight production lines, two clean workshop, 40-plus sets of various types of specialized processing and testing equipment, from raw materials analysis to product performance tests. The use of those equipment for real-time detection and compliance inspection is to ensure that each of the products meet the high quality requirements.

## To meet the individual needs of the user

For special customer requests, we can customize. Our strong R & D capabilities and the molding center fitted with advanced equipment, provide a strong guarantee for the market development. It is also a major reason for us to win over customers.



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# Meet your demand with one-stop-shop capabilities



## TYBOX Series Sealed Box

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The TYBOX series sealed box materials consist of three types: enhanced flame retardant ABS, PC and cast aluminum

IP66 protection

Two options: with and without knockdown holes

We currently have more than 100 varieties in 13 series over 70 sizes.

We provide a variety of accessories to better meet your needs, and for the seal box to play a greater role in your project. We provide accessories cable connector, installed hooks, the hinge kit, metal mounting plate, heighten layer and so on.

We can also provide special processing.

TYBOX series sealed box has excellent appearance, insulation resistance, good thermal stability, corrosion resistance and high protection class advantages. It can be widely used in machinery, machine tools, electrical equipment, electric power, automation and other industries. It can also be used in shipbuilding, metallurgy, petrochemical, aerospace, rail transportation, sewage treatment, construction and many other fields.



## JD Series of Warning Lights

Design of the JD series warning lights adheres to the classic European style, giving it a generous appearance and unique ingenuity. TAYEE high standards in the design and manufacturing process are strictly followed. The protection level can be as high as IP65 to ensure that the products can be used in an unrestricted manner in various industries.

The JD Series monomer warning light housing are made of high quality material with bright color transmittance, does not fade or wear in prolonged usage, with compressive resistance to impact.

The JD series warning lights can be freely combined in modules. The special seismic-resistance design prevents the products from vibration damage and improves the lifespan of the products. Under normal circumstances, the light source can run for 100,000 hours, eliminating the need for routine maintenance work.

### ▼ JD series consists of:

The monomer: 50mm, 70mm, 90mm, 150mm

Combined: 50mm, 70mm, 90mm

Integrated: 36mm, 50mm

Square modular: 90mm

Multi-tone alarm: 110mm, 150mm

Multicolor warning lights:

50mm, 70mm, 90mm



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- 4 types of light source: LED, super bright LED, incandescent and xenon lamps
- 5 types of light-emitting method: steady, strobe, turn flash, adjustable
- 5 colors: red, green, yellow, white, blue
- 12 types of sound
- 15 types of accessories

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## **LA42 Series Ø22 Pushbutton**

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LA42 series Ø22 pushbuttons are divided into round and square. It consists of contact module, bracket and button head. Connection of the three parts adopts the international leading self-locking connection without fastening, which is safe, reliable, convenient for assembly and disassembly (one man can handle it separately), and of long service life. Contact of the contacts is highly reliable. Modular structure used in contact module ensure reliable contacting, easy service (you can replace all components at back with single screwdriver).

Silver-copper composites used in contacts enable current up to 10A.

Water is the leading killer to electrical circuit. LA42 series pushbuttons has unique waterproof and dustproof fittings, enabling protection class up to IP65. With shield, its protection class can be up to IP67. The pushbutton's flammability class is V0, safe and reliable. Unique connection terminal contacts safely, eliminating the possibility of electric shock and bolt-falling.



## LA42(A) Series Ø22 Pushbutton

LA42 (A) series Ø22 pushbutton is a breakthrough product after elaborately research and design with 12 years' manufacturing experience of pushbutton. The new style of self-locking connection and freely superimposed contact module make the products more flexible.



- ▲ It is convenient to mount and dismount without any tool by fresh self-locking connection. The exterior arc design of button can better meet the demand of Human Engineering.



- ▲ Superimposed contact module. Freely superimposed contact module makes the products more flexible.

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### **AD 17 Series Indicator Lamp**

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Installation dimensions of AD17 series indicator lamp include six types:  $\Phi 8$ ,  $\Phi 10$ ,  $\Phi 12$ ,  $\Phi 16$ ,  $\Phi 22$ ,  $\Phi 25$ . They also adopt LED (light-emitting diode) as the light source which includes hyper bright and super bright. This series of products is characterized by pure color, diverse color, long service life, etc.

AD17 series indicator lamp is produced by unique technology to prolong the long service life of LED which is already long and make 100 thousand hours of consecutive operation possible. It will not stop illuminating after the service life but only become dim which decreases the work load of replacing the lamp and wiring, as well as decreases operating expenses of the enterprise and spare parts storage expenses.



## LA423 Series Ø30 Button

LA423 series Ø30 flush button goes beyond people's concept of the usual button indicator lamp and brings brand-new visual experience. The button has larger surface area, and surface of the panel is only about 2mm higher after being installed. External circle of the button is treated by matt silver metal surface and the edge is streamline glide slope. This series of products combines tectonics and aesthetics perfectly and is especially suitable for the machine tool industry and the automated equipment industry.



- Installation diameter 30mm
- Protection grade IP65
- Self-locking connection without fastening
- Flame retardant rating V0 grade
- Silver alloy contact, current 10A
- Safe concealed wiring finger touch
- Anti-falling screw

- Highly reliable contact  
Parts are composed of imported materials, solid, durable, and wearable.  
Simple overhaul (all the elements on back of the panel may be replaced with only a screw driver)  
LA423 series button, three contact modules may be installed at most, and six pairs of contacts may be installed at most.



## Meet your demand with one-stop-shop capabilities



### LA42(B) Series Ø16 Button Indicator Lamp

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LA42(B) series Ø16 button is of complete specifications. By shape, there are round, square, and rectangular buttons. There are ordinary buttons, buttons with lamp, knob, emergency stop button, buzzer, indicator lamp, etc.

LA42(B) series button can meet the requirements of users for small and intensive control of panel to the greatest extent.

#### Structural characteristics

1. Clamping structural shell easy for dismantling and assembling.
2. Light instant-on switch structure, small actuating force, and reliable switching.
3. Anti-rotating locator positions the button accurately and prevents loosening.
4. The shield of LA42(B) series button has three shapes, namely round, square, and rectangular, and all the buttons may be installed on the control panel.



LA42(S) series Ø16 button is small and exquisite and of complete specifications and quite suitable for small and intensive control of control panel, and can installed closely. This series of products is integrated with the advantages of many foreign switches and fills the blank of exquisite and small products in the field of switch for low-voltage electrical appliances. The characteristics of this series of products are suitable for the numericallycontrolled machine tool industry and the automated equipment industry.

The conductive contact bridge of this series of products is composed of high-quality gold alloy and is gilt as the terminal so as to ensure reliable switching under small current, longer switching life under large current, prevent oxidization of the contact owing to the industrial gold coating, and endure current 10 times of the normal operating current. The whole series of buttons adds the enclosed device in structure to provide the product with a protection grade of IP65. Spraying water and vapor or conductive dust in the operating environment cannot enter the switch so as to prevent electric arcing and puncture between contacts, improving the operating reliability and enabling normal operation under various adverse environments.

- The joint of LA42(S) series button adopts the flexible shockproof mechanism to provide the shock-proof feature. Misoperation of switch contact can even be voided in case of vibration.



# Meet your demand with one-stop-shop capabilities



## AD17 Combined Indicator

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AD17-30ZH,AD17-40ZH Combined Indicator adopts super bright, pure color LED as light source,making it possible to achieve 100,000 hours of continuous operation under pure color condition.

It offers five pane sizes, with dual-color indicator model and flash indicating model available; it's pane portfolio is up to 200.

We can supply carving type character sheet for AD17 series indicator lamp as requested, regardless of character language (English or Chinese) or pattern styles. Extensile pane's user-friendly design, enable visibility even at high location. AD17 series indicator lamps are widely used in the places with demanding signal indicating requirement,such as central control of power plant, transformer substation.

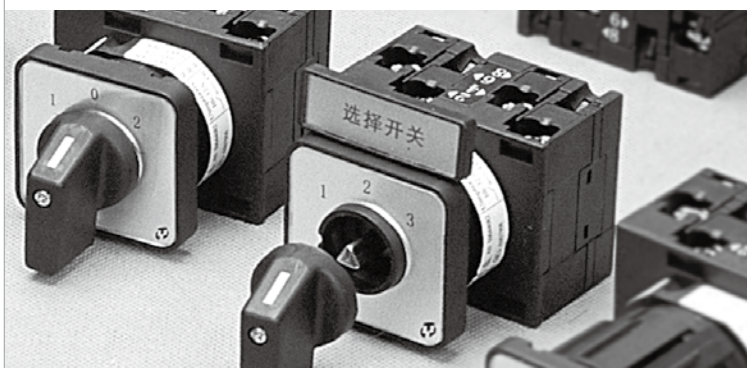


LW42 series cam switch and safety switch is another series of high-quality product developed by Shanghai Tayee Electric Co., Ltd. to meet customer's needs. The unique terminal is designed with safe finger touch and avoids electrical shock and prevents falling of the screws. The materials are composed of Germany nylon 66 with the flame retardant rating up to Vo grade. The head protection grade is up to IP65 which can prevent dust and vapor entering the switch effectively, and therefore it may be applied to various operating environments without limitation.

The junctions of LW42 series cam switch and safety switch are equipped with double-break contact, highly reliable, and suitable for various operating environments. The combination of contacts is unlimited and can be applied to standard wiring of the electrical appliance flexibly. TAYEE Electric provides about more than 900 common combinations for option.

▼ By mounting types:

Screw mounted, center mounted, box mounted, and guide rail mounted



▲ By type of product:

Selector switch, door interlocking switch, key switch, switch inside distribution cabinet, pull-type selector switch with handle, mechanical lattice night lock switch, self-adjusting door interlocking switch, change-over switch with lamp, and button-head selector switch

▼ By category:

Selector switch 10A, 20A, 25A, 32A;

On-off switch 10A, 20A, 25A, 32A, 63A, 100A



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## **X42A Series Limit Switch**

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X42A series limit switch is made up of three components: Switch operating parts, transmission parts and contactor cabinet. All switch contacts are double

break contacts which are made of silver alloy. Isolation of circuit between the contacts ensure high safety performance for the products. The limit switch comes in two types: Creeping (H) and Speed (S). Their technical indicators are completely in conformity with international electric standards.

Limit switches produced by our company have a mechanical lifespan of up to 5 million times; their electrical life can exceed 500,000 times. With a protection

level of IP65, electrical performance, precision level of switch time and precision for repeatability, they ensure safety of machinery and equipment. As such they are widely used in all types of machinery equipment as well as lightweight and medium-weight automated production lines.



## X42B Series Metallic Limit Switch

The X42B series metallic limit switch is compact and small. With an external shell made of zinc alloy and hard plastic, it is solid and durable and possesses strong resistance to corrosion and shock impact. Perfect combination of high performance, high-quality built-in switch and multiple actuating heads allows it to satisfy the needs in different scenarios. The product's smaller size, design for more reliable environment-adaptability enable it to be widely used in all types of situations with light-weight, dust-free, oil-free and waterproof requirements.

Examples include automation equipment for industrial machinery and normal factory.



- Spindle, rocker and roller are made of stainless steel wire, processed with thermal treatment, with high mechanical strength and corrosion resistance capability. They have multiple dust-proof, oil-proof, and water-proof design, enable an protection class of IP 65.

- Based actuating heads, it can be divided into the following categories:

plunger, roller plunger, vertical roller plunger, roller lever, adjustable roller lever, telescopic lever, spring coil, (metallica) telescopic lever, (steel wire) spring coil.



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## **TYZC Series Socket Box**

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TYZC series modular socket box body uses the TYBOX seal box and is coupled with the Germany Walter CEE socket. The socket box has a high degree of protection, and is versatile and scalable. It can also be added with transparent window, miniature circuit breakers, earth leakage protection switch or LW42 cam switches, AD17 signal lights and J42 terminals.

Cabinet material is PC, protection level is IP65 and impact level is IK08.

German Walter standard CEE industrial socket: 16A-105A, 2 poles~5 poles; IP44/IP67, 2-15 transparent window.



## J42 Series Connection Terminal

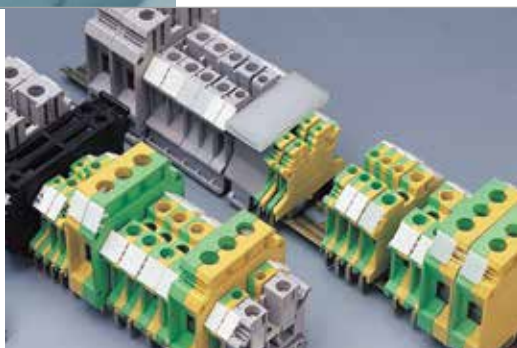
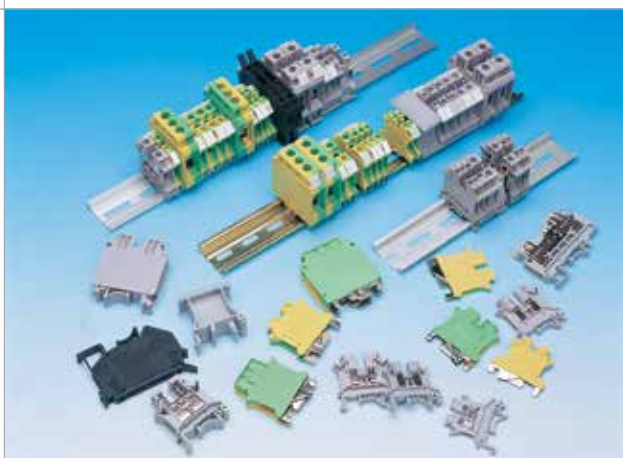
J42 series connection terminals has bolt self-locking function and good tear-resistance capability, as the elastic deformation of the wire pressing frame increases due to the special structure treatment, the thread friction increases to achieve the self-locking function. Various wires can be connected directly without pre-treatment.

The bolt is fabricated from high strength alloy copper, copper cathode for the current bar, and copper alloy for the wire pressing frame. The metallic surface is nickel plating protected, featuring good corrosion resistance capability and electrical conductivity. Their housing fabricated from high quality nylon PA66 with a flammability class of V0, and is able to withstand high-pressure, and high temperature.

- ▶ **Earthing Type**  
Earthing type terminals have yellow-green green insulation cover of international standard. The metal foot of the ground terminal is connected with in rail electricity. And the rail can be used as the ground bus.

- ▶ **Universal Type**  
Universal terminals can be mounted on both U-type and G type rails, making leads convenient pass through.

- ▶ **Experimental Type**  
Experimental terminals can make kinds of test connection of the secondary circuit of current transformer conveniently.



- ▶ **Fuse Type**  
Fuse type terminals, in which the fuses can be loaded, can open upward and can be fixed at the end position.
- ▶ **Double-layer Terminal**  
Double-layer terminal has the characteristic of saving space. Look from side, there is half thickness of ordinary terminal between the upper and lower layer wiring position. The top and bottom layers all have to be connected.



# Meet your demand with one-stop-shop capabilities



## TYAT Series Socket

TYAT series socket is made of high-quality nylon to provide excellent electrical resistance, impactproof, and anti-corrosion performance to the products; the high-end injection molding, smooth anti-contamination surface, and unique top cover design improves protection grade of the product to IP65.

The product is widely used to combined socket box and non-standard power box and may be used with the closing box, socket box, etc. of our company. It is also widely used to electrical equipment for power configuration of plant, mechanical equipment, construction site, chemical industry, vessels in port, logistics, etc., and the product has been exported to many European countries.



The company can complete the design of various automatic systems and field installation and debugging of hardware accessories with the rich experience in system design. The complete control equipment products produced by our company are of complete specifications with protection level IP65.

The product has won scores of patents and honors and has been widely used in rail transportation, energy, spaceflight, metal,lurgy, chemical industry, power transmission and distribution, vessel, etc.



- ◀ To meet the needs of different customers, The control cabinet have many series as below:
- MNS Low voltage extrtaction type switch cabi-net
  - PML1 series Metering cabinets
  - GGD series AC low voltage switch cabinet
  - TYZC low-voltage power distribution box
  - TYZC-X Control Cabinet
  - TY-GK High temperature resistance box
  - TYZC-QT Piano Console
  - TYZC-DS Framework for general purpose
  - TYZC-HW Outdoor Control Cabinet

- Materials of the box include polycarbonate (PC), poly-acrylnitrile (ABS), stainless steel, cold rolled steel, etc.. It is made by advanced equip-ment and leading technol-ogy in the industry and with smooth lines and beautiful appearance.



## Our Customers

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Development and advancing are eternal verities for customers. Tayee Electric is dedicated to providing more values to users and joint development.

With advanced design concept and keen market insight, Tayee Electric gets closer to the users and wins the praise of the massive users. Our products are widely used in many major construction projects for long time at home and abroad, showing a good performance.

Our customers include:





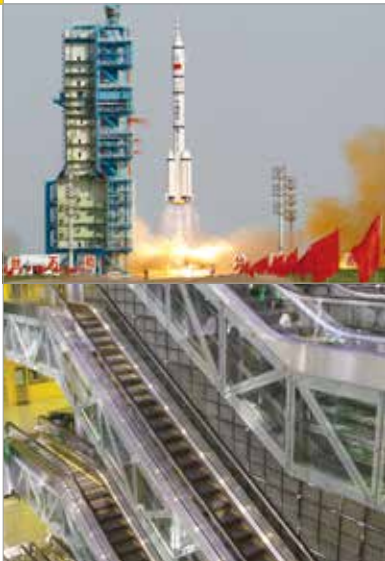


#### ◀ Metro Vehicle Project

Beijing subway line 2, 4, 5, 8, 9, 10, 13, 14; Nanjing Subway line 1, 2; Wuxi Subway line 1, 2; Ningbo Subway Line 2; Hangzhou Subway Line 1; Wuhan High Speed railway; Sri Lanka railroad car; Pakistan project; Malaysia EMU project; Iran Ma Shade project; Thailand Bangkok project; Saudi Arabia Metro; Argentina SA support line with Myanmar, Matt Ray.

#### ▶ Elevator industry

Shanghai Mitsubishi Elevator, Xizi Otis, Tianjin Otis, Guangzhou Otis, Suzhou Schindler, ThyssenKrupp Elevator (Shanghai) Co., Ltd., Zhongshan ThyssenKrupp, Giant KONE, Kunshan KONE, Shanghai Yung-tay Hitachi, Shanghai Fucida, Guangzhou Hitachi, Jiangnan Jiajie, Jiangnan Express, Dalian Sigma etc.



#### ◀ Spaceflight and aviation

Jiuquan Satellite Launching Center, "Yuan Wang" research vessel, escort of "Yuan Wang" research vessel, "052" guided missile destroyer, South Pole research vessel, Shanghai Pudong International Airport, Xinjiang International Airport.

#### ◀ LED Lighting retrofit projects

Shanghai space city 804/805; Longyin Temple-Shanghai Grand Theatre; Beijing Space City Shanghai Metro; Beijing Datong mutual limited; Changchun passenger car plant, Changsha cigarettes factory, Shanghai GM, Shanghai GFC elevator, Dongfeng liuzhou passenger car base, Shanghai cigarette factory, Shandong Taikai high-pressure company/nuclear----power plant, Beijing Alstom, Zhengzhou Nissan factory in Changzhou, Jianghuai automobile, Sedrin Ltd, Beijing Hyundai Motor, Wuhan Line 3 line etc.



#### ▼ Project

Three Gorges Project, Daqing Oilfield, Shanghai Bund Sightseeing Tunnel, Guangzhou Stadium, Hanjiang Oil Field in Hubei, Sinopec Shanghai Reconstruction Project Phase II, Shanghai Wujing 300 thousand-ton ethylene project.

#### ▲ Iron and steel industry

Newly added three 2-color lines of Baoshan Iron & Steel Co., Ltd., INBA Slag Processing Project of 1 Blast Furnace of Wuhan Iron & Steel, Baoshan Iron & Steel Co., Ltd., Dalian Iron & Steel Group Qingdao Iron & Steel Plant, and 600 thousand comprehensive utilization project of Beijing Capital-Steel, Qingdao Steel & Iron Group.



#### ▲ Power industry

Xinjiang Shiheziche Thermal Power plant, Datangshan Power Plant, Shijiazhuang No.1 Thermal Power Plant, Qingdao Thermal Power Co., Ltd., Sichuan Guang'an Power Plant, Kunming No.2 Power Plant, Haerbin Gasification and Thermal Power Plant, Xuanwu Power Plant.



#### ▲ Reconstruction project

Sinopec Shanghai Reconstruction Project Phase II, Slab Reconstruction Project of Shanghai Baoshan Iron & Steel, Zhabei Power Plant Project Phase II, 600 thousand-ton comprehensive utilization project of Beijing Capital Steel, Qingdao Steel & Iron Group, China United Cement Lunan Co., Ltd. 5000T, Yunnan Sallification Project, INBA Slag Processing Project of 1 Blast Furnace of Wuhan Iron & Steel.

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