

BROCHURE

Field Instruments

Intelligent Instruments for Digital Transformation



Intelligence For Excellence

www.hollysys.com

About HollySys

Established in 1993, HollySys stands as a premier provider of intelligent solutions.

HollySys' business encompasses Industrial Intelligence, Transport Intelligence, and Food & Pharmaceutical Intelligence, operating through business centers in Singapore, China, India, Indonesia, the Middle East and Central Asia. With a steadfast commitment to continuous innovation and R&D since its inception, HollySys has been at the forefront of shaping intelligent solutions across diverse industries. Rooted in the belief "Intelligence For Excellence", our dedication revolves around intelligent manufacturing products and solutions, centered on control and safety systems, complemented by instrumentation, industrial software, and full life-cycle and training services. Committed to transforming industries through innovation and excellence in intelligence, HollySys is your trusted partner on the path to heightened efficiency and technological advancement.

HollySys instrument business was launched in 2005, and has a professional R&D team, experienced engineering personnel at home and abroad, first-class manufacturing equipment, intelligent manufacturing workshops, and production management systems. Since its establishment, the company adheres to independent R&D, continues to introduce state-of-the-art production technologies and process equipment, and constantly improve the quality and performance of instrument products. It has implemented nearly 20,000 projects and served more than 10,000 users by virtue of excellent product quality and professional technical services.

Global Presence
40+Countries

Global Employees
5,000+

R&D Staffs
1,500+

Global Customers
35,000+

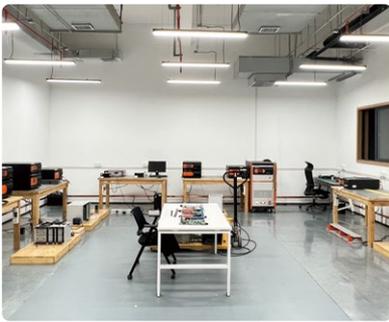
Global Implemented Projects
45,000+

Intellectual Property
2,000+



Professional R&D Testing Laboratories

The R&D team is composed of senior engineers and experts with rich industry experience and profound technical expertise, and is dedicated to product R&D and innovation. The team operates first-class software and hardware research facilities and follows a comprehensive R&D management process to ensure that our products achieve a leading position in the industry in terms of technological advancement, quality stability, innovation capability, user experience, and other aspects.

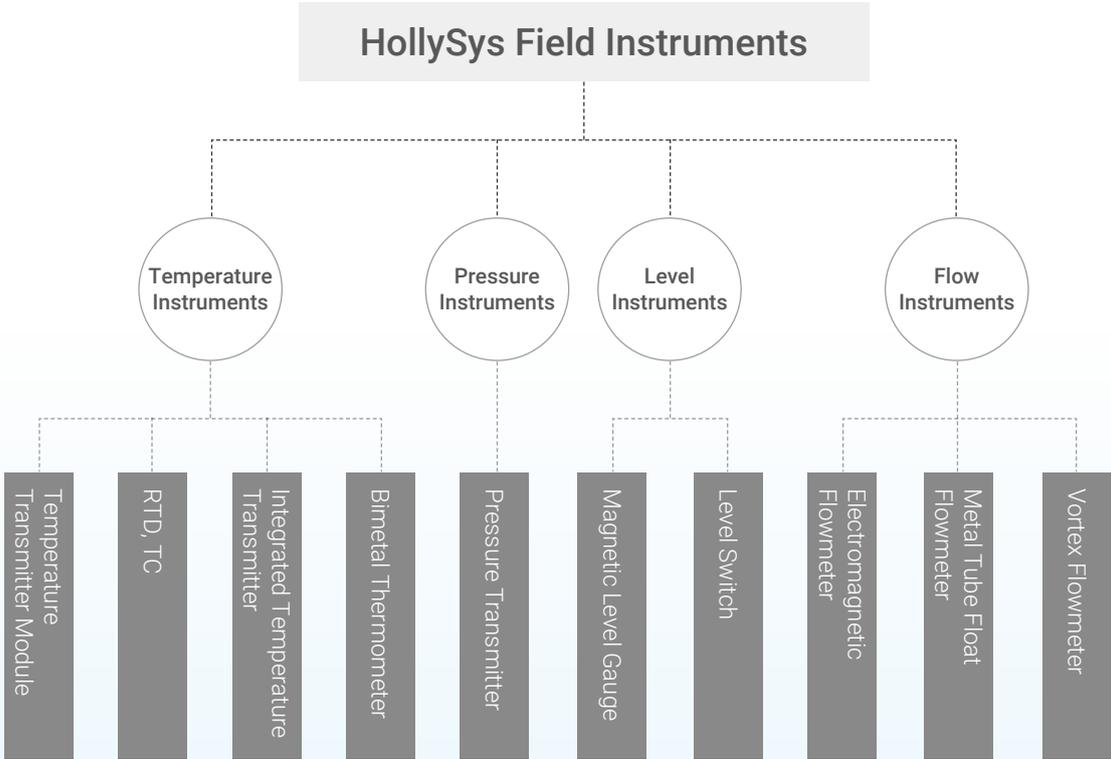


Advanced Manufacturing Management

The instrument manufacturing workshop employs advanced production equipment and technology, establishing a comprehensive quality management system. Additionally, an information management system Manufacturing Execution System (MES) is introduced to achieve comprehensive monitoring and management of the production process. This enhances the efficiency and accuracy of production management, reduces costs, and ensures product quality and delivery schedules.



Product Family of Field Instruments



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AT5000 Series Intelligent Pressure Transmitter



Overview

AT5000 series intelligent pressure transmitter is a new-generation pressure transmitter independently developed by HollySys. It adopts internationally advanced microelectromechanical system (MEMS) monocrystalline silicon sensor technology and patented packaging process. It features independent patented technology for the motherboard and temperature compensation calibration algorithm. The motherboard utilizes the latest generation of integrated chips, contributing to low energy consumption and stronger load carrying capacity. Additionally, by taking full advantage of HollySys software development, various self-diagnosis functions are designed to meet users' pre-diagnosis and pre-maintenance demands. The products are suitable for measuring gauge pressure, absolute pressure, differential pressure, liquid level, density, flow, etc. under various working conditions. They also obtain the intrinsically safe and explosion-proof certifications. The product has passed authoritative functional safety certification authorized by Bureau Veritas by meeting SIL2 requirements, and meeting SIL3 requirements in redundant configurations.

Features

- **High Accuracy**

International advanced MEMS-based single crystal silicon sensor, independently developed motherboard with the new-generation integrated chips, and self-developed state-of-the-art temperature compensation calibration algorithms, which guarantee optimal linear indicators
- **High Reliability**

Isolation diaphragms with the unique design, featuring anti-overloading and product reliability greatly improved by virtue of the software design and digital filter technologies
- **Intelligent Diagnosis**

Rich self-diagnosis functions used for monitoring the running and failure states of a product and the AMS software used for uploading the product states to the system to provide users with pre-diagnosis and pre-maintenance information
- **Ease of Use**

Patented appearance design, a motherboard connected with a wiring board by a special cavity connector, simple installation, and adoption of isolation which can prevent condensed water vapour from entering the front cavity to corrode the motherboard, and the electrical interface tilted down by 10°, which can effectively avoid water inflow caused by improper installation

Key Performance Parameters

Pressure Range

(0 to 1) kPa to (0 to 40) MPa

Temperature Range

-45°C to 300°C

Remote Diaphragm Material

316L, HC, Tantalum, PFA coating, gold plating, etc.

Differential Pressure Range

(0 to 100) Pa to (0 to 10) MPa

Accuracy Class

Class 0.05

AW200 Series

Temperature Transmitter Module



Overview

AW200 series temperature transmitter module is a new product independently developed by HollySys. A temperature transmitter converts the resistance thermistor (RTD) or thermocouple (TC) signal into a 4 to 20 mA output signal and is used for measurement and control of temperature parameters in the industrial process. HollySys AW200 series temperature transmitter module has a number of diagnosis functions, is compatible with DCS systems, and features high reliability, accuracy, and long-term stability for temperature detection of critical processes in all industries.

Features

- Support for cold-junction compensation and linear calibration and testing of a variety of signal types, customizing the output signal type based on demands, and a variety of input types, including RTD, TC, and mV
- High-performance accuracy class conversion, high stability and reliability, and long service life
- Glue-based encapsulation processing, which protects the module against moisture and shock with the storage and working temperature ranging from -40 to +85°C and enables the module suitable for use in a variety of complex working conditions
- Strong anti-electromagnetic and radio frequency interference ability and conforming to IEC/EN 61326
- Rich self-diagnosis functions of the temperature transmitter, including temperature sensor's open circuit and short circuit, and detection of variables out of the upper and lower limit
- USB interface supported by AW202 temperature transmitter, which facilitates module configuration and maintenance in special applications
- HART5 and HART7 supported by AW201 temperature transmitter, which facilitates module configuration and maintenance in special applications
- Support for external and built-in cold-junction compensation with built-in cold-junction compensation PT100 conforming to the IEC 60751 Cl. B standard
- 500 V electrical isolation (input/output)

Key Performance Parameters

Supply Voltage

12 to 40 V DC (AW202), 17 to 40 V DC (AW201) reverse power protection

Output Signal

4 to 20 mA (AW202), 4 to 20 mA + HART (AW201)

Input Signal

RTDs such as PT10, PT100, PT200, PT500, PT1000, CU50, CU100; TCs such as R, S, B, J, T, E, K, N, C, A

Accuracy

0.1%

Pressure Transmitters

HollySys pressure transmitters are self-developed, self-manufactured products featuring high precision, low-power consumption, and high performance. Based on advanced design concepts, international monocrystalline silicon sensor technology, and patented encapsulation process, they achieve electronic modular design to ensure the product accuracy class and stability. The pressure transmitters have a quantity of functions, including intelligent diagnosis, simulation, monitoring, local configuration and a variety of communication functions, complete specifications of the liquid material, electromagnetic compatibility with high indicators, and lightning protection. The product series include AT5000 series intelligent pressure transmitter, AT4500 series pressure transmitter, and AT4500S series sanitary pressure transmitter, etc., which are widely used in the measurement of differential pressure, liquid level, flow, pressure, absolute pressure, etc. in industrial production process.

AT5000 Series Intelligent Pressure Transmitter

Pressure Range (0 to 100) Pa to 40 MPa **Accuracy Class** Class 0.05
Isolation Diaphragm 316L, Hastelloy C, Tantalum, Monel, PTFE/PFA coating, gold plating, etc.
Output Signal 4 to 20 mA + HART, Modbus-RTU/RS485, etc.



AT4500 Series Pressure Transmitter

Pressure Range (0 to 200) Pa to 40 MPa **Accuracy Class** Class 0.075
Isolation Diaphragm 316L, Hastelloy C, Tantalum, PFA coating, gold plating, etc. **Output Signal** 4 to 20 mA + HART



AT4500S Series Sanitary Pressure Transmitter

The sanitary pressure transmitter obtains the U.S. sanitary 3A certification and is suitable for food and pharmaceutical industries. It adopts the overall stainless steel design with the polishing surface finish lower than or equal to 0.4 um and uses sanitary tanks in line with the FDA certification for liquid filling.

Measurement range (0 to 10) kPa to 10 MPa **Accuracy Class** Class 0.1 and below **Isolation Diaphragm** 316L, Hastelloy C, etc.



Level Instruments

Level instruments include magnetic level gauge, float level gauge, buoyancy level transmitter, and multiple level switches, such as tuning fork level switch, float level switch, radio frequency conductivity level switch, etc., which are widely used in the measurement and control of liquid level in the production process of electric power, petrochemical, chemical, metallurgy, environmental protection, shipbuilding, construction, food and other industries. The products have good stability and strong adaptability and obtain intrinsically safe and explosion-proof certifications, which can be applied to a variety of explosion-proof situations.

AL2000 Series Magnetic Level Gauge

Measurement Range	0 to 15,000 mm	Accuracy	±10 mm
Structural Form	Basic type, anti-corrosion type, jacket heating type, electric heating type, balanced drive type, etc.		



AL2300 Series Magnetic Float Level Gauge

Measurement Range	0 to 6,000 mm	Accuracy	±10 mm
Output Signal	2-wired 4 to 20 mA	Operating Temperature	-15°C to 120°C
Wetted Material/Flange Material	304, 316L	Guide Rod Material	304, PP, PTFE



Intelligent Electric Buoyancy Level (Boundary) Transmitter

Measurement Range	0 to 4,000 mm	Accuracy	0.5%FS
Transmitter	USA Fisher (HART)	Operating Temperature	-196°C to 400°C
Pressure Rating	-0.1 MPa to 40 MPa		



ALYK-200 Series Tuning Fork Level Switch

Power Supply	4-wired 24 V DC/220 V AC	Catch Material	304, 316, PTFE
Explosion-Proof Grade	Exd IIC T6 Gb		



ALFK-300 Series Side-Mounted Float Level Switch

Measurement Range	0 to 550 mm	Operating Temperature	0 to 350°C
Explosion-Proof Grade	Ex d II C T4~T6 Gb	Return Difference	10 mm



ALFK-340 Series Top-Mounted Connecting Rod Float Level Switch

Measurement Range	100 to 6,000 mm	Guide Rod Material	304, 316, PP, PTFE
Explosion-Proof Grade	Ex d II C T4~T6 Gb	Operating Temperature	-20 to 120°C
Return Difference	10 mm		



ALDK-400 Radio Frequency Conductivity Level Switch

Power Supply	24 V DC/220 V AC	Explosion-Proof Grade	Ex d ia II C T4~T6 Gb
Temperature Range	Probe: -186 to 420°C; working temperature in circuit: -40 to 60°C		
Electrode Type	Standard type (threaded rod connection), flat type (flange connection), flexible probe (threaded cable connection), corrosion-resistant type (304 + PTFE)		
Return Difference	10 mm		



5100 Pulse Radar Level Transmitter

Measurement Range	0 to 10 m	Temperature Range	-40°C to 200°C
Accuracy	±3 mm	Pressure Range	-0.1 MPa to 2.5 MPa
Explosion-Proof/Protection Grade	Ex ia IIC T6 Ga/IP67		



Flowmeters

AF2000 Series Electromagnetic Flowmeter

HollySys electromagnetic flowmeter can be used to accurately measure the flow of the liquid, pulp, slurry with the conductivity greater than 5 $\mu\text{S}/\text{cm}$. It is used in the chemical, medicine, daily chemical, municipal water supply, sewage treatment, food, paper and other industrial fields.

Nominal Diameter	DN10 to DN1000 (for special customization, contact technical support)		
Accuracy Class	Class 0.5	Structural Form	One-piece, split type
Pressure Rating	(1.0 to 4.0) MPa, up to 25 MPa	Connection Type	Flange type, clamp type
Electrode Material	Stainless steel, HCB2/B4, platinum-iridium, tantalum, titanium, etc.		
Explosion-Proof Grade	Ex d e i b mb IIC T3~T6 Gb		
Lining Material	Rubber, PTFE, PFA, F46, fluorine silicone, etc.		
Housing Material	Cast aluminum (DN10 to DN300), carbon steel (DN350 to DN1000)		



AFM2000 Series Metal Tube Float Flowmeter

HollySys metal tube float flowmeter can measure gas, steam and liquid, is suitable for measuring continuous clean gas and liquid, especially suitable for measurement of control of small flow, low flow rate, and harsh media conditions. It adopts all-metal structure and modular design, featuring anti-vibration, and pressure, temperature and corrosion resistance, compact structure, and easy maintenance.

Nominal Diameter	DN15 to DN150	Accuracy Class	Class 1.0
Pressure Rating	Up to 40 MPa		
Power Supply	24 V DC, 220 V AC, 3.6 V (lithium battery)		
Operating Temperature	-40°C to 120°C, -80°C to 3500°C (special)		
Explosion-Proof Grade	Intrinsically-safe: Exia II C T6 Ga; explosion-proof: Exd II C T6 Gb		
Output Signal	4 to 20 mA, HART, 2-wired preset value switch		



Vortex Flowmeter

Nominal Diameter	DN25 to DN600	Accuracy Class	$\pm 1.0\%$ (liquid), $\pm 1.5\%$ (gas)
Pressure Rating	Up to 10 MPa	Power Supply	12 to 36 V DC (2-wire), 3.6 V (lithium battery)
Operating Temperature	-40°C to 320°C		
Explosion-Proof Grade	Intrinsically-safe: Exia II C T6 Ga; explosion-proof: Exd II C T6 Gb		
Output Signal	4 to 20 mA, HART communication, raw pulse frequency output		



Temperature Instruments

HollySys temperature instruments include self-developed and manufactured temperature transmitter modules, RTDs, TCs, bimetal thermometers, and integrated temperature transmitters, which feature high reliability, accuracy and long-term stability and can be widely used for temperature measurement and transmission in petroleum, chemical, metallurgy, food, medicine, and other industrial fields.

AW200 Series Temperature Transmitter Module

Supply Voltage	12 to 40 V DC (AW202), 17 to 40 V DC (AW201) reverse power protection		
Input Signal	RTDs such as PT10, PT100, PT200, PT500, PT1000, CU50, CU100; TCs such as R, S, B, J, T, E, K, N, C, A		
Output Signal	4 to 20 mA (AW202), 4 to 20 mA + HART (AW201)	Accuracy	0.1%



RTD, TC

RTDs and TCs are usually used with display instruments, recording instruments, computers, etc. to measure the surface temperature of liquid, steam and gas media and solid in industrial production process.

	TC	RTD
Index Number	R, S, B, J, T, E, K, N	PT100, PT1000, CU50, CU100
Temperature Range	K (0 to 1100°C) N (0 to 1100°C) R (0 to 1300°C) S (0 to 1300°C) B (0 to 1600°C) J (0 to 600°C) T (0 to 350°C) E (0 to 800°C)	PT100 (-200 to 600°C) PT1000 (-200 to 200°C) CU50 (-50 to 100°C) CU100 (-50 to 100°C)
Accuracy Class	Class I	Class A
Wiring Form	Single, double	
Mounting Method	Fixed thread, movable thread, movable flange, fixed flange, pipe fitting type	
Junction Box Type	Spray-proof type (IP65), waterproof type (IP55), explosion-proof type	
Characteristic	RTDs and TCs adopt imported thin film resistor elements, are reliable and stable in performance, and adopt drill-type protective casing which is pressure-resistant, corrosion-resistant, and strong ability in anti-erosion and can withstand up to 30 MPa pressure.	
Certification	Explosion-proof and intrinsically safe product	



Integrated Temperature Transmitter

Input Signal	RTD, TC, mV, remote resistance signal	Accuracy	0.1%
Intrinsically Safe and Explosion-Proof	Ex ia IIC T1...T4 Gb	Output Signal	4 to 20 mA
Additional Temperature Error	≤ 0.015%/°C		



Bimetal Thermometer

Measurement Range	-80 to 500°C	Accuracy Class	Class 1.5	Protection Class	IP65
Structural Form	Axial, radial, universal type	Outer Diameter of Dial	Φ60 mm, Φ100 mm, Φ150 mm		
Protection Tube Material	1Cr18Ni9Ti, 304, 316, 316L, Hastelloy C-276				



Typical References

Power

End User	Project Name
Kaifeng Xianyou Oxygen Making Equipment Co., Ltd.	Ohangaron 1000 Air Separation Unit Project
Surham Cement Investment	SCI 1000TPD Cement Production Line Project
Mubarekneftegaz	Alan & Zevanda Gas Booster Station Project
Enter Engineering Pte. Ltd.	Karauzyak 440 MW Combine Cycle Power Plant Project
Uzbekneftegaz	E-KON Project
Notatech JSC	Water Treatment Project
CJSC Belarusian National Biotechnological Corporation	Waste Water System Project
SILUMIN-VOSTOK LLP	NAC Kazatomprom JSC Project
UPNK-PV LLP	Factory Transformation Project
YDD Corporation	Coal Mining Project
Eurasian Resources Group	JSC Shubarkol Komir Project
iQS Engineering LLP	Atyrau-Oil Refinery LLP Project
Indonesian Qingshan Iron and Steel Co., Ltd.	Weida Beianjia & Koala Sea 2 × 380 MW Generating Unit Project
Sulawesi Mining Co., Ltd.	1.025 KTA Boiler Auxiliary Network, 1 × 380 MW Unit, 3 × 380 MW Unit Project
Xinjiang Jin Xin Xin Environmental Protection Equipment Co., Ltd.	120,000 m ² Heating Heat Exchange Station Project
Weixian Aosen New Energy Co., Ltd.	1 × 35 WM + 2 × 130 TA Project
Jiangsu Lihuai Iron and Steel Co., Ltd.	Lihuai Iron and Steel 1 × 130 t/h Gas Boiler Surplus Gas Power Generation Project
Jiujiang Pinggang Iron and Steel Co., Ltd.	135 MW Ultra-high Temperature Subcritical Blast Furnace Gas Power Generation Project
Jinan Huangtai Gas Furnace Co., Ltd.	OBI Island PT Liqin Mining Nickel Cobalt 6 × 55,000 Nm ³ /h Gas Furnace Project
Cambodia CART TIRE CO, LTD	Cambodia 2 × 110 t/h High Temperature High Pressure Circulating Fluidized Bed Boiler Project
Kelan County Xingke Thermal Power Co., Ltd.	First Heat Source Plant New 120 t/h Circulating Fluidized Bed Boiler Project
Everbright Environmental Protection (China) Co., Ltd.	3 × 750 t/d Furnace 2 × 35 MW SAIC Engine One-Key Start-Stop Project
A'roung Banner Rongjia New Energy Technology Co., Ltd.	1 × 30 MW Cogeneration Project
Yichun Zhongji Huaye Energy Development Co., Ltd.	30 MW Cogeneration Project
Inner Mongolia Xintai Group Xinguang Thermal Power Co., Ltd.	Thermal Power Third Phase Project
Huaning Yufa Paper Co., Ltd.	45 t/h Circulating Fluidized Bed Boiler + 4.5 MW Back-Pressure Turbine Power Generation Engineering Project
Bayan Uul Yubao Thermal Power Co., Ltd.	Bayan Uul Yubao Thermal Power Co., Ltd. Cogeneration Engineering Project
Shanxi Shunfa Heat and Power Co., Ltd.	Shanxi Shunfa Heat and Power Co., Ltd. 1 × 12 MW Biomass Cogeneration Project
Xuchang Dongfang Thermal Power Co., Ltd.	Xuchang Dongfang Thermal Power Co., Ltd. Cogeneration Project
Shenyang Northern Alliance Thermal Power Co., Ltd.	2 × 168 MW Boiler Project
Panzhuhua Zhongli Cheng Industry Co., Ltd.	75 TA Thermal Power Boiler Project
Shanxi Zhongmei Pingshuo Clean Energy Co., Ltd.	General Contracting Power Plant 4 MW Gas Power Generation Project
Jingxing Holdings Co., Ltd.	1.4 MTA of Recycled Pulp, 33 MW Gas Turbine, 7 MW Steam Turbine, 100 t/h Boiler Project
Inner Mongolia Qinghua Group Tenggeri Coal Chemical Co., Ltd.	5.5 m Coke Oven Riser Waste Heat Recovery Project
Laiwu Iron and Steel Group Co., Ltd.	Special Steel Zone 60 TA Converter Continuous Casting Environmental Dust Removal Project
YDD Co., Ltd. Kazakhstan Karaganda State	4 × 94.5 MVA Silicon Ferro Furnace Project



Petrochemical

End User	Project Name
National Pipeline Group Tianjin LNG Co., Ltd.	Natural Gas Terminal and 6 x 220,000 m ³ Tank Reception Station Project
Jinan Energy Construction Development Group	Nancunfan 40,000 m ³ LNG Peak Shaving Storage and Distribution Station Project
Linyi Urban Investment Energy Group Co., Ltd.	LNG Peak Shaving Reserve Center Project
Anqing High-Tech Energy Technology Co., Ltd.	100 Million Nm ³ /year Shangkou Pressure Regulating Station Project
Hefei Heran Sinopec Gas Co., Ltd.	363 Million m ³ /year High-Pressure Natural Gas Pipeline Project
China National Offshore Oil Corporation	Oilfield Group Development Project
Shanxi Jianke Natural Gas Technology Co., Ltd.	100 Million Nm ³ Gas Distribution Station Station Project
Guangzhou Lianyou Energy Co., Ltd.	200 KTA Liquefied Gas Reform and Upgrade Technology Project
Shaanxi Fugu Poverty Alleviation Immigration Hualun Gas Co., Ltd.	550,000 m ³ /day Comprehensive Utilization of Natural Gas and Supporting Long-Distance Pipeline Project
Xinjiang Ronghe Energy Co., Ltd.	300,000 m ³ LNG Project
Weifang Hongrun Petrochemical Technology Co., Ltd.	Petrochemical Boiler Project
China Petroleum & Chemical Corporation Yangzi Petrochemical Branch	Yangzi Petrochemical Green Steam Supply Center Cogeneration Project
Puyang Zhongyuan Petrochemical Industry Co., Ltd.	50 KTA Functional Additive and Raw Material Project
Tianjin PetroChina Lubricating Oil Company	300 m ³ Lubricating Oil 703 Unit Project
Lanzhou Petrochemical Company Limited	8,000 Nitrogen Unit Transformation Project
China Petroleum & Chemical Corporation Liaoyang Petrochemical Company	Petrochemical Skills Competition Laboratory Project
Zhuhai Huafeng Petrochemical Co., Ltd.	Petrochemical Phase I Depressurization Unit and Tank Area Project
China Petroleum & Chemical Corporation Qilu Petrochemical	135 KTA Butanol Octanol Project
China National Offshore Oil Corporation Shenzhen Branch	Oilfield Group Development Project
Liaoyang Liaohe Mechanical and Electrical Instrument Training Co., Ltd.	Laboratory Unit Project
Zhangzhou Anran Gas Co., Ltd.	50,000 m ³ LNG Vaporization Station Expansion Project
Anhui Province Heran Great Wall Natural Gas Co., Ltd.	600 Million m ³ /year Luchi Line Project



Metallurgy

End User	Project Name
Meishan Yindile Technology Co., Ltd.	20 KTA Lithium Battery Binder Project
Green Eco (Jiangsu) Cobalt Co., Ltd.	30 KTA Ternary Precursor Project
Xinjiang Guanghui Coal Chemical Refining Co., Ltd.	10 MTA Coal Distillation Unit Full Plant Combustible Toxic Project
Qinyang Yongrun Technology Development Co., Ltd.	200 KTA Formaldehyde and 30 KTA Polyoxymethylene Project
Hunan Bode Boxin Environmental Protection Technology Co., Ltd.	84 KTA Hazardous Waste Utilization and 2.8 KTA Fine Chemical Products Unit Project
Anqing Kossi Chemical Co., Ltd.	50 KTA PS Project
Shandong Yigong Material Technology Co., Ltd.	30 KTA Engineering Plastics Project
Anhui Hengguang New Materials Technology Co., Ltd.	200 KTA Waterborne Coating Emulsion and 100 KTA Waterborne Industrial Paint Resin Project
Guizhou Shengweifu Quan Chemical Co., Ltd.	75 KTA Titanium Dioxide Project and 300 KTA Sulfur Fine Sand Acid Making Unit Project
Shandong Hanfeng New Materials Technology Co., Ltd.	15 KTA Chemical New Material Construction Project
Xiangyuan Hongda Coal Chemical Co., Ltd.	3.2 MTA JNDX3-6.25-16 Coking Consolidation Project
Ganzhou Langgu New Materials Technology Co., Ltd.	20 KTA Light Curing Material Project
Shandong Shenghua Materials Technology Co., Ltd.	Display Material and Pharmaceutical Intermediate Engineering Project
Shandong Baosen Energy Co., Ltd.	20 KTA Chlorinated Esterization Project
Guangxi Times New Material Technology Co., Ltd.	20 KTA High Precision Electronic Copper Foil Project
Lanzhou Additive Factory (Lanzhou New Area) Co., Ltd.	150 KTA Class A Workshop Relocation Expansion Project
Jinchang Shuangyi Chemical Technology Co., Ltd.	40 KTA Anhydrous Hydrofluoric Acid Project
Jingmen Greentech New Materials Co., Ltd.	20 KTA Ternary Precursor Project
Lishui Lvfu Technology Co., Ltd.	100 TA BDFPO and 20 TA TDFPA Unit Project
Jiangsu Demei Chemical Co., Ltd.	In-service 15.2 TA Active Dye Production Plant Full Process Automation Upgrade Project
Jingyuan Coal Industry Group Liuhua Chemical Co., Ltd.	600 KTA Synthetic Ammonia/700 KTA Urea/100 KTA Methanol/60 KTA Melamine Project
Xi'an Changqing Chemical Group Co., Ltd. Xianyang Chemical Agent Branch	1.645 KTA Oilfield Additives Hidden Management Project
Huangshan Jinfeng Industry Co., Ltd.	100 KTA TGIC Unit Project
Hefei Guoxuan New Material Technology Co., Ltd.	100 KTA Negative Material Unit Project
Hubei Lianchang New Material Co., Ltd.	60 KTA Fluorine-Containing Fine Material and Pharmaceutical Intermediate Project
Shandong Xingyu Gloves Co., Ltd.	High Density Xingyu Gloves Nitrile Vulcanization Platform Project



Food and Pharmaceutical

End User	Project Name
China National Pharmaceutical Group Weiqida Pharmaceutical Co., Ltd.	6APA Workshop Recycling Line Transformation Project
Shaanxi Youbang Biomedical Technology Co., Ltd.	500 TA Pharmaceutical Intermediates Project
Jilin Meihua Amino Acid Co., Ltd.	300 KTA Lysine Project
Shandong New Era Pharmaceutical Co., Ltd.	Pharmaceutical Intermediate Project, New Anticancer Drug Project, Weight Loss Drug Project
Kanhong Chemical (Tianjin) Pharmaceutical Preparation Technology Co., Ltd.	New Pharmaceutical Project
Nanjing Zhongda Tianqing Pharmaceutical Co., Ltd.	Pharmaceutical R&D and Manufacturing Project
Puyang Oasis Industry Co., Ltd.	31 KTA Food Grade Sodium Hydroxyethyl Cellulose Equipment Project
Jiangsu Purun Biomedical Technology Co., Ltd.	R&D and Manufacturing Project
Changyi Tianyu Pharmaceutical Co., Ltd.	Raw Material Drug Equipment Project
Hubei Hongyuan Pharmaceutical Technology Co., Ltd.	6 KTA Lithium Hexafluorophosphate Upgrading Project, 2 KTA Lithium Hexafluorophosphate Expansion Project, 7 KTA Nitration Workshop Transformation Project
Zhejiang Sitaile Pharmaceutical Co., Ltd.	5 TA Iodoproline and 40 TA JSQ Project
Henan Kanda Pharmaceutical Co., Ltd.	20 KTA Raw Material Project
Wahaha Group National 20+ Branches	Instrumentation Project
Tianjin Pharmaceuticals Co., Ltd.	Safety Automation Transformation Project
Zhuhai Ruidelin Biotechnology Co., Ltd.	160 KTA Nucleotides Project
Anhui Yunfan Pharmaceutical Co., Ltd.	61 TA Raw Material Drug Equipment Project
Tongren Guijiang Technology Co., Ltd.	Pharmaceutical Intermediate Project
Qingzhou Yaowang Pharmaceutical Co., Ltd.	Traditional Chinese Medicine Granule Workshop Project (10 KTA Traditional Chinese Medicine Granules)
Aksu Aodu Sugar Co., Ltd.	Aodu Sugar 8000 t/d Sugar Beet Factory Granule, Dry, Lime Kiln Equipment Project
Shandong Lukang Shili Pharmaceutical Co., Ltd.	Pharmaceutical SS-08 Project
Yangzhou Rixing Biotechnology Co., Ltd.	Raw Material Drug Workshop Project
Xiamen Jindawei Vitamin Co., Ltd.	New Vitamin Project
Zhejiang Tiancao Biotechnology Co., Ltd.	5 KTA Dry Plant Albumin and Concentrate Line Project
Chifeng Hua Heng Synthetic Biotechnology Co., Ltd.	600 KTA Corn Processing Project
Hulunbuir Northeast Fufeng Biotechnology Co., Ltd.	500 KTA Amino Acid Project



Metallurgy

End User	Project Name
Zhejiang Meiqingbang Engineering Services Co., Ltd.	50 KTA Nickel Sulfate Crystal Project in Indonesia
Jingxi Tiangui Aluminum Co., Ltd.	2.5 MTA Alumina Project
Gansu Defu New Materials Co., Ltd.	20 KTA High-Grade Electrolytic Copper Foil Project and 50 KTA High-Grade Electrolytic Copper Foil Project
Jiujiang Defu New Energy Co., Ltd.	5 KTA High-Grade Electrolytic Copper Foil Project and 28 KTA High-Grade Electrolytic Copper Foil Project
Jinan Iron and Steel Group Co., Ltd.	300 Sintering Machine and Air Compressor Project
Jiangxi Shengen Copper Foil Technology Co., Ltd.	50 KTA Copper Foil Project
Tianjin Steel Pipe Manufacturing Co., Ltd.	1 MTA Iron Smelting Energy Metering Project
Guangdong Jiayuan Technology Co., Ltd.	16 KTA High-Performance Copper Foil Equipment Project
Linyi Iron and Steel Investment Group Stainless Steel Co., Ltd.	20 KTA Desulfurization Waste Liquid and Foam Acid Production Engineering Project
Shandong Hesheng Copper Industry Co., Ltd.	10 KTA Electronic Copper Foil Metallurgy Project
Gansu Hailiang New Energy Materials Co., Ltd.	150 KTA High-Performance Copper Foil Equipment
Dongfang Xiwang (Sanmenxia) Aluminum Co., Ltd.	1.5 MTA Aluminum Oxide Vaporizer Transformation Project
Guangdong Yinghua Electronic Technology Co., Ltd.	40 KTA High-End Copper Foil Equipment Project
Xiantao Rongbai Lithium Electric Materials Co., Ltd.	400 KTA Lithium Battery Positive Material Project
Anhui Huiru Technology Co., Ltd.	80 KTA Copper Foil Construction Project
Jiangxi Xinke Environmental Protection High-tech Co., Ltd.	310 KTA Multi-metal Resource Recycling Comprehensive Utilization Project
Baotou BYD Mining Vehicle Co., Ltd.	50 KTA High-Precision Ultra-thin Electronic Copper Foil Equipment Project
Guangxi Feinan Resource Utilization Co., Ltd.	100 KTA Waste Copper Comprehensive Utilization Project
Qinghai Taifeng Pioneering Lithium Energy Technology Co., Ltd.	160 KTA High Energy Density Lithium Battery Material Packaging Integrated Equipment Project
HengTg Precision Copper Foil Technology (Deyang) Co., Ltd.	50 KTA Copper Foil and Standard Electronic Copper Foil Project
Shandong Jiayuan New Energy Materials Co., Ltd.	30 KTA High-Precision Ultra-thin Electronic Copper Foil Equipment Project
Hebei Huaxin Special Steel Co., Ltd.	1.2 MTA Oxidized Pellets Project
Guangxi Chi Ji Iron and Steel Co., Ltd.	3 MTA Coking Purification Project
Shaanxi Future Advanced Materials Technology Co., Ltd.	50 KTA Copper Foil Production Line Project

Key Accounts

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