

INTELLIGENCE FOR EXCELLENCE







HollySys Group



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ABOUT US

Founded in 1993, HollySys is a leading supplier of intelligence solutions in China and abroad.

HollySys is headquartered in Beijing with R&D, production, and service bases in Beijing, Hangzhou, Xi'an, and Singapore, and local branches in major cities in China, as well as offices in India, Malaysia and Indonesia.

HollySys business consists of industrial intelligence, transportation intelligence, and food and pharmaceutical intelligence, covering the main industries for the global economy and the people's livelihood.

HollySys has always been pursuing continued innovation and R&D since the inception. By offering more reliable, secure, and intelligent products, as well as the full cycle services and customized solutions for our customers, we assit our customers to improve their market competitiveness.

35,000+

Global Customers

45,000+

Global Implemented Projects

5,500+

Global Employees

2,000+

Intellectual Property

Across **5** Continents

Business Network

40+

Countries Our Business Has Covered

1,500+

R&D Staffs



HISTORY



OVERSEAS DEVELOPMENT



India:

NSPCL Durgapur 2X 20MW Power Project -III

Indonesia:

Tsingshan DCS, DEH, Simulation, and Instrumentation Project

Uzbekistan:

Karauzyak 440MW Combine Cycle Power Plant

Bolivia:

Power Plant and Alcohol Production Line of San Buenaventura Sugar Mill

Singapore:

Thomson-East Coast Line

Ethiopia:

 4×30 MW Power Plant of Welkait Sugar Mill

Malaysia:

Chaya Mata Phosphates Industries Integrated comprehensive phosphorus chemical project Alliance Steel DCS, DEH, TSI and ETS project

Thailand:

NPP5 and NPP9 Power Plants

Vietnam:

Lao Cai 200,000t/a copper smelting project Hau Giang 2 X 10MW Biomass Power Plant



- R&D, Production and Service Centers
- Partner & Installed Base



> PRODUCT MILESTONE

Functional Safety PLC System

1993 Real-time Distributed **Control System** 1998 Digital I&C System for **Nuclear Power Plant** 2000 SCADA for Urban Rail Transit 2006 Large-scale PLC System 2007 Train Operation Control System for Passenger Dedicated Line 2008/2017 TCM Granules/ Pieces Dispensing System 2012 Safety Instrumented System 2018 Secure and Trusted Control System 2021 Industrial Optical Bus Control System (OCS) 2024 LXS High Performance and

> TEST & CERTIFICATION



ISO14001 Environment Management System Certificate#



ISO27001 Information Security Management System Certificate



ISO9001 Quality Management System Certificate

QUALITY MANAGEMENT SYSTEM CERTIFICATE

ISO45001 Occupational Health and Safety Management System Certificate



CMMI5 Certicate



Reliability Test Centers

(TÜV) ISO/IEC17025 Certified

The largest corporate reliability test center for automation products in China



HollySys Reliability Test Center



Temperature Shock and Temperature Variation Test



Stepping Cyclic Damp Heat Test



Electromagnetic Compatibility Test



Device Screening and Aging Test



Electric Vibration Test

> PRODUCTION & MANUFACTURING

HollySys Intelligent Digital Workshop has achieved lean, automatic, and information-based management throughout the whole process, from management, process development, production, to internal logistics distribution. It has achieved perfect integration and collaboration from control layer, and data collection to applications layer, as well as quality traceability throughout the entire process. The production and manufacturing capability leads the industry, meeting the flexible needs of both small batch and multi-batch production.



Flexible Assembly and Testing Line



System Integration and Test Workshop



Internal Automatic Logistics System



Intelligent Production Management System



Automatic SMT Line



Intelligent Warehousing Management System



> ENGINEERING AND SERVICES

550+

mature solutions for various industries

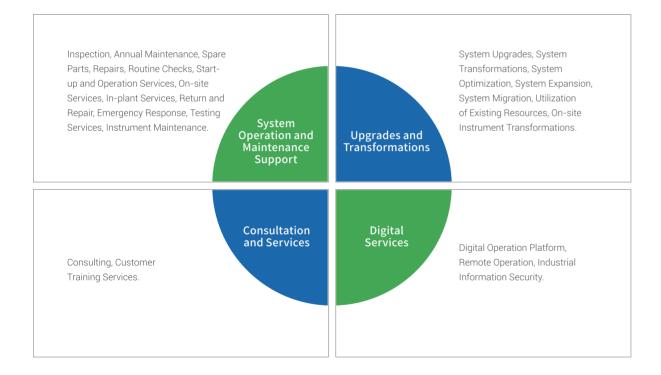
1,400+

regional professional engineers

200+

industrial experts

The MAV assists customers in scientific decision making and provides FLC service



3,500+

integration per month

cabinets for commissioning/



Engineering Construction



Operation Management



apacity Expansion

Training 8



> WORLDWIDE SERVICE



Quick Response

1,400+

service engineers worldwide

5 overseas business centers

40+

authorized channel partners worldwide

One-stop Service Platform

Procurement, supply, project management, system engineering, site service, troubleshooting and training



Expert on Overall Solutions of Factory Automation

Complete products series of industrial intelligence

15 Intelligence For Excellence

Strong capability in solution and system integration

Customized design and construction&commissioning

As a leading supplier in several market segments, our solutions are applied to the key equipment and projects of process manufacturing and discrete manufacturing.

2000+Projects

Successfully Implemented Annually

NO.1

Market Share of Control System for Thermal Power Units in China

50%

of Commercial Nuclear Power Plants **Reactors in China**

80+ Projects

of Offshore Platforms

50+

1000MW Thermal Power Units

Petrochemical Industry

We have achieved significant breakthroughs in key areas including million-ton of ethylene, ten-millionton of oil refining, large-scale coal chemical industry, and million-ton of aromatics.

Sinopec Tianjin Nangang Industrial Cluster Project

The first domestic integrated SIS project applied to petrochemical unit

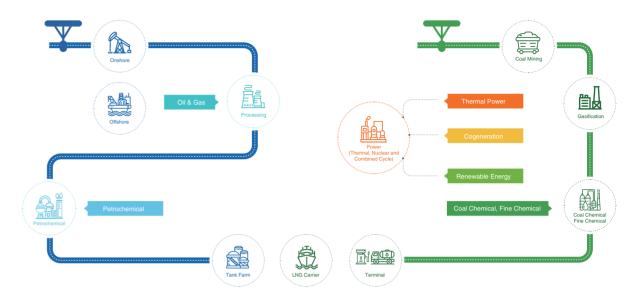
BASF Zhanjiang Verbund Site

The largest foreign investment project in China's chemical sector. HollySys provided GDS system for the whole plant, which included 13 sets of GDS for 10

PROCESS AUTOMATION

Based on the HOLLiAS® industrial automation platform, HollySys offers a series of advanced, practical and reliable industrial intelligence system products including DCS, DEH, SIS, OCS, Instrumentation, etc. It also provides the integrated solution of information software such as MES, AMS, APC, OTS, Batch for intelligent factories.

Widely Applied to Many Industries: Petrochemical, Chemical, Thermal Power, Nuclear Power, Oil and Gas, Offshore Platforms, New Energy, Metallurgy, Building Materials, Pharmaceuticals, Food, Paper, and others.



Process Automation



Building Materials/

Mining/Paper

HiaPlant Digital and Intelligent Transformation Solution

HollySys leverages its strong technical strength in intelligent control to offer HiaPlant digital intelligence transformation solutions. These solutions span from intelligent control to intelligent management, creating new opportunities for the localization of smart factories.

One Model, Five Capabilities, Empowering N Industries

Five Capabilities

Intelligent Monitoring

Intelligent control + AI technology



After years of refining industrial-grade applications, HollySys' solutions deliver integrated services across full life cycle of the process industry. It leverages cutting-edge technology to rebuild the "core strengths" of enterprises, ensuring solutions deliver real value for users. By empowering teams, optimizing assets, and enhancing operational excellence, it becomes a driving force

Pharmaceutical

Energy



Main Products



HOLLIAS MACS Distributed Control System (DCS)



HiaGuard Safety Instrumented System



Industrial Optical Bus Control System (OCS)



T800 Turbine Digital Electro-Hydraulic System (DEH)



HOLLiAS-N Nuclear Power Plant Digital Instrumented and Control System



Nuclear Power Plant Turbine Control System

POWER

- · Top 1 Market Share of Large-scale Control System of Thermal Power Units in China
- · Automation System Supplier of Large-businesses including Datang and China Energy
- · The 1st Homemade System for Large-scale Thermal Power Units
- · The 1st DCS, DEH and Field Bus Integration System for Millionkilowatt-class Units
- · The 1st "Black Screen" Operation System for Header-system CFB Boilers.

1000MW Ultra-supercritical Unit Project with Double Reheat **Project of Datang Dongying Power Plant**

As an important part for Datang Group coastal development strategy, this project has been recognized as the top honor in the power industry for its exceptional engineering quality, receiving the prestigious award "2022 China Power Excellent Project".

Full-process Intelligent Collaboration Center Construction Project of the Xinjiang Beisan Power Plant 2X660MW Units

It is the first energy project undertaken by Shaanxi Investment Group in Xinjiang as part of the Belt and Road Initiative. HollySys customized a plan for this project, enabling the client to establish the first fully digital smart power plant in China.

1000 MW Ultra-supercritical Generator Unit Project of Shenhua Fujian Hongshan **Power Plant**

It is equipped with the largest power generation unit in the region. It stands out as the first project to use a domestic integrated control system for million-kilowatt-class units.

The Project Contributed to

About 2.3 million dollars reduction of the engineering

About 48% reduction of the after-sales service and spare parts costs

300+

NUCLEAR ENERGY

HollySys has developed the HOLLiAS-N digital I&C system to meet the special security and functional needs of the nuclear power industry. This system has been successfully implemented in multiple nuclear power plants across China, including Daya Bay, Qinshan, Ningde, Hongyanhe, Yangjiang, Tianwan, and Fangchenggang. Additionally, it is currently being utilized in new nuclear power plant projects. Furthermore, this advanced digital I&C system is also exported to international markets.

Leveraging its advantages as a leader in the nuclear power industry, HollySys has developed solutions for solid waste treatment and smart water system to diverse applications, including nuclear fuel, nuclear elements, and nuclear waste treatment. It has been helping clients in the nuclear industry to realize digitalization with controllability, security and reliability, intelligent control, and smart management.

China's First Digital I&C System for Nuclear Power Plants was developed in 1998

50%

of the Commercial Nuclear Power Plants Reactors Projects are developed in China

150 Reactor Years **Cumulative Reactor Operating Experience** amounted to over 150 Reactor Years



> PETROCHEMICAL

The plan-wide automation solution greatly improves the production efficiency, safety and flexibility.

HollySys Integrated Solution combines instrumentation, control system and industrial software into a whole, and opens up horizontal and vertical information flows.

Sinopec Hainan Refinery 1.6MTA PX Polyester Raw Material **Project**

Sinopec Hainan Refinery is the largest aromatic hydrocarbon production base of Sinopec. The project with large system structure and complex process achieved 35,000 I/O hard points and won the "2015 National Science and Technology Progress Award". After completing this project, HollySys has become one of the very few DCS control system suppliers in China with large-scale performance for xylene.

100,000+

I/O points in DCS System

20,000+ points in SIS System

Sinopec Nangang 1.2MTA **Ethylene and New Materials Industrial Cluster Project**

It is the first large-scale refining project focusing on high-end new materials by Sinopec, and has adopted HollySys's innovated OCS and SIS.

OCS Provided our Clients with

30%+

cost reduction for the control system

90%+

reduction in cabinet areas

50%+ shortening in control

CHEMICAL

Undertaking multiple large-scale key projects in the chemical industry.

Providing comprehensive automation solutions for many global multinational enterprises including BASF, China Energy and Sinochem.

10,000+ automatic control systems are ensuring the production and safety of chemical plants.

Covering large-scale coal chemical, salt chemical, fluorosilicone chemical, fine chemical, and new material fields.

ZAUCC 1.7MTA Coal to Methanol and Olefin Conversion Project

It is the largest modern coal chemical project in the first batch planned by China. HollySys participated in this project as MAV mode and implemented the localization of key industrial control equipment in the country. The project with over 35,000 I/O hard points won the "2009~2020 China Petroleum and Chemical Automation Industry Technological Progress Special Award".

BASF Eco-friendly CCE 3.0 Project

HollySys supported this project with 18MTA capability of its nine coating lines and batching slurry production line, and provided DCS, Batch, and full lifecycle services to this project.

The Project Contributed to

30%+

reduction of personnel

15%+

increasing of production efficiency

10%+

improvement of equipment utilization rate 5%+

improvement of product qualification



OIL AND GAS

Covering six sectors including onshore oil and gas fields, long transmission pipelines, urban gas, LNG receiving stations, oil and gas gathering and transportation, and offshore facilities.

Participating in the construction of the national pipeline network of China.

Servicing major projects such as Shaanxi-Beijing Gas Pipeline, West-East Gas Pipeline, China-Russia East-route Gas Pipeline, Beijing Gas, Guangzhou Gas, Tianjin LNG Phase II of PipeChina, and Offshore Platform. Have been awarded the CCS Type Approval Certification.

80+

Offshore Platform Projects

PipeChina Group Southern Branch

The First Localization Transformation Project of SCADA System for Product Oil Pipeline HollySys's fully homemade SCADA system was successfully applied to this project, achieving full domestic production from "control chips" to "engineering materials". It safeguard the oil and gas pipelines as well as the energy security of the country.

CNOOC Tianjin Branch Kenli 6-1 Oilfield Cluster Exploration and Production Project

This project is the first major oilfield with over 100 million tons production capability in the northern Laizhou Bay region of China's Bohai Sea. Targeting the offshore platforms with complex operating conditions, HollySys provides 7 platforms with DCS, ESD, FGS, SIS, AMS, network security equipment and remote control equipment, with 15,000 I/O points and 35,000 communication points.

METALLURGY

Product solutions covering various fields, including steel, non-ferrous metals, precious metals, submerged arc furnaces and new materials.

Completing a number of large integrated and centralized control system projects.

Providing premium automation products and technical services for many metallurgical enterprises.

CNICO Myanmar Tagaung Taung Nickel Iron Project

This project is invested by CNICO. It stands as the largest collaborative effort between China and Myanmar in the mining industry, with annual processing capacity of 1.32 million tons of dry ore, over 16,000 I/O hard points, 20 control rooms, 46 operation stations. HollySys has propelled the client's mining and metallurgical processes to achieve cutting-edge global standards.

Jiujian Xiancai 2 X 2.4MTA Iron Ore Pelletization Project

It is invested by Jiujiang Xiancai Group with annual production capacity of 4.80 million tons of pellet. This project achieved full localization of the control system, advanced the digitization of engineering equipment, laying the solid foundation for intelligent factory construction and production intelligence of pellet.



> FOOD & PHARMACEUTICAL

The food and pharmaceutical industries have always adhered to the principle of high standards and strict requirements for production management. HollySys supports users by enhancing product quality, production efficiency, and safety while reducing costs. By analyzing production data, it further optimizes processes and elevates management practices.

Hubei Zhongmu Anda Pharmaceutical Co., Ltd. Animal Drug R&D and Production Base Project

The project applied the HOLLiAS® integrated pharmaceutical solution, enabling full automation and unified control of the production process. It was recognized as one of the "2019 Hubei Province Information and Industrialization Integration Pilot Demonstration Enterprises."

New Era Pharmaceutical Company Orlistat API I&C EPC Project

As a billion-level product of New Era Pharmaceutical Company, Orlistat urgently needs to expand production capacity, enhance quality, and improve efficiency while minimizing human intervention. HollySys customized the secondary design of automatic process control solutions according to users' needs, achieving near-complete automation in the workshop, where each process can be started with just a single button.

The Project Contributed to



BUILDING MATERIALS AND PAPER

The building materials and paper industries struggle with issues like high energy consumption, low automation, and significant environmental pollution. HollySys offers comprehensive control and management solutions to address these challenges.

Enhance users' automation rates, productivity, and efficiency while lowering production and operational costs. Build intelligent factories to strengthen market competitiveness.

PM15 Production Line Project of Wuzhou Special Paper Co., Ltd.(Hubei)

HollySys delivered an integrated solution for the PM15 production line, combining pulping and paper-making DCS with paper machine MCS. This setup achieved high-precision control for a roll width of 8660mm and a working speed of 1300m/min. It not only boosted production efficiency and product quality but also represented a significant step toward replacing imported automation control systems with domestic alternatives.

Hubei Century Xinfeng Leishan Cement Co., Ltd. 6500 t/d NSP Cement Production Line Project

The user's factory has been in operation for nearly 20 years with low automation and a mix of electrical component brands, resulting in inconsistent protocols. HollySys offered DCS products and upgrade solutions that connected all equipment across the plant without changing existing protocols or interrupting normal operations. This facilitated plant-wide networking, centralized control, management, and automated alerts for maintenance.

The Project Contributed to

DISCRETE AUTOMATION

Providing overall automation, information and intelligence solutions covering equipment, production line, workshop, and the whole plant.

HollySys' PLC, HMI, frequency converter, servo drive, SCADA software and other products are widely used in water conservancy, water affairs, hydropower, tunnel, pipeline, metro, mining, power, chemical, oil and gas and other industries. They are also applied in advanced manufacturing sectors like semiconductors, new energy, logistics, automotive, and ports.

For Specific Industries

Developing complex special equipment that integrates laser, mechanics, electronics, and software technologies.

For Digital Workshops

Providing integration of stereoscopic warehouse, logistics, production line, and other automatic facilities necessary.

For Intelligent **Factories**

Providing overall solutions and IoT and software integration services.



Intelligent Control Products

Intelligent Equipment Control System/ Infrastructure Management System









Intelligent Factory

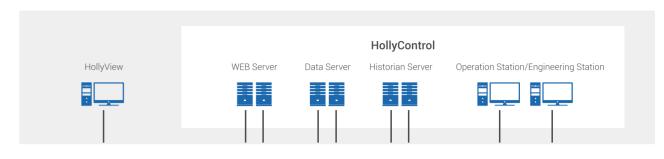
Production Line Automation Integration/IoT System Integration







SCADA Products: HollyView and HollyControl



Small-scale Project

PRINCIPLE PROPERTY.

Stand-alone Equipment



Large-scale Project

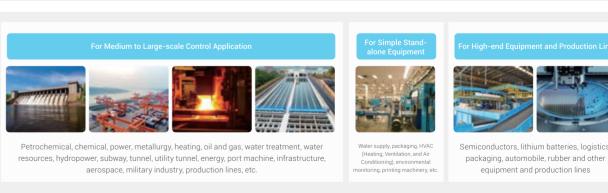
Production Line and Complex Equipment



- 2000 points or 300,000 points
- Visualization
- CS architecture and BS architecture
- Support remote terminal monitoring with mobile App
- Compatible with Windows operating systems
- Integration of automation monitoring and informatization
- Support deep customization
- C programming language
- 3D animation panoramic visualization
- Robust disaster recovery plan
- Distributed deployment capabilities
- Integration of GIS for spatial-temporal correlation
- Video surveillance and data integration

PLC Products





- Over 20 years of research and development with safety and innovation of components and technologies
- Integrated programming and configuration platform
- Wide range of options: small-scale, medium to large-scale, motion, safety, high-end professional, and secure and trusted

New Generation of High-end PLC LX Series

- Rich features: minimal size, high speed, high performance, perfect integration, user-friendly operation, and high safety
- Empowering industrial mainframe with intelligent control for autonomous operations



Ports 1

Facilitate the localization of ports automation.

HollySys LK220 + multi-remote IO configuration is applied to Qingdao automated port.



Semiconductor Equipment ↑

HollySys LK series and LX series PLC are widely used in the solutions for various equipment in semiconductor facility systems, horizontal furnaces, vertical furnaces, PVD/CVD, washing machines, etchers, and others.



Automobile Stamping Equipment ↑

HollySys LXS series PLC has been successfully tested by key customers in stamping, welding, painting, assembly and automotive parts equipment and production lines.



New Energy Equipment ↑

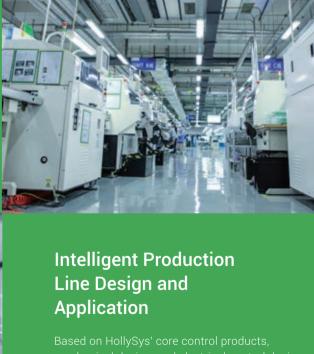
HollySys LX series PLC is widely used by key customers in the lithium battery and energy storage industries.

> INTELLIGENT FACTORY CONSTRUCTION TURNKEY SOLUTION FOR DISCRETE MANUFACTURING INDUSTRY

To meet the demand for advanced intelligent production facilities in the manufacturing industry, HollySys provides comprehensive and deeply integrated solutions and construction services including plan, design, construction, maintenance and operation for intelligent factory development by integrating and developing our own products. HollySys is committed to supporting intelligent manufacturing and enterprise transformation and upgrades.

Intelligent Factory Turnkey Capability

Based on the theoretical system and practical experience of digital factory construction, combing with the continued innovation core control products and information system platform, HollySys offers comprehensive production line construction, logistics construction, infrastructure construction, and information system construction services to build advanced intelligent production factory.



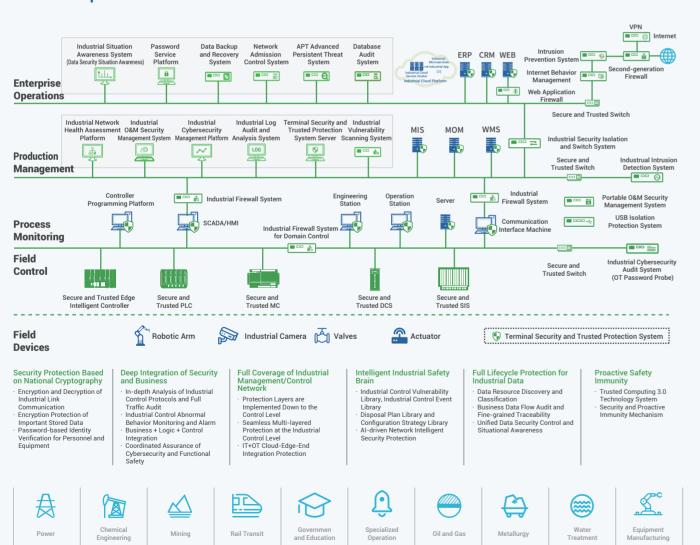
Based on HollySys' core control products, mechanical design, and electrical control design capabilities, HollySys provides users with intelligent transformation and upgrading of equipment, customized design and development of intelligent production lines, and implementation services, which includes modular design, rapid interconnection, high flexibility, and low-cost upgrades, enabling enterprises to reduce costs and increase efficiency.

INDUSTRIAL CYBERSECURITY

HollySys puts forward a theoretical system and overall architecture of industrial information security that integrates "business + security" for industrial control systems.

By developing a complete range of industrial network security products, HollySys establishes a comprehensive industrial information security defense system and solutions that meet the classified protection of cybersecurity standards and the security requirements for critical information infrastructure. Provide users with one-stop Industrial Control System Network Security Services, covering everything from threat detection and program planning to implementation remediation and O&M response.

Comprehensive Solutions



Building on the Trusted Computing 3.0 architecture, HollySys has made a significant breakthrough in industrial embedded security technology with independent intellectual property rights, achieving a leading position internationally. This innovation has been successfully applied across various industries, including power, chemicals, and coal, greatly enhancing the security assurance capabilities of China's core industrial control systems.

China Coal Group Banji 2*660MW Thermal Power **Project**

Sinopec Tianjin Nangang 1.2MTA Ethylene Plant Project

Beijing Metro Line 19 Urban Rail Integrated Business **Cloud Platform Information Security Protection Project**

A Research Institute of CNPC Control System Safety **Laboratory Project**

Product System



Security Management

- Industrial Cybersecurity Management Platform
- Industrial O&M Audit System
- Portable O&M Security Management System
- Security Situation Awareness System
- Industrial Network Health Assessment Platform



Data Security

- Database Audit System
- Data Backup and Recovery System
- Key Management System Data Situation Awareness System
- **Boundary Protection**
 - Industrial Firewall/Second Generation Firewall/Vehicle Firewall System
- Intrusion Prevention System
- WEB Application Firewall
- Industrial Security Isolation Gateway/ Security Data Acquisition Gateway
- Internet Behavior Management System
- Network Admission Control System



Detection and Audit

- Industrial Cybersecurity Audit System
- Industrual Intrusion Detection System Industrial Vulnerability Scanning
- OT Cryptographic Probe System
- Log Audit and Analysis System
- APT Advanced Threat Detection System



Network Communication

- Secure and Trusted Switch
- Nuclear Power Gateway Module



Terminal Protection

- Terminal Security Guard
- Terminal Host Reinforcement





























































































एनटीपीसी NTPC









































Leading Provider of Transportation Control System Solutions and Services in China.

HollySys offers solutions and products for train operation control, intelligent control, intelligent 0&M, and vocational education to users in sectors such as mainline railways, urban railways, and urban rail transit. HollySys has won a number of national, provincial and industry association awards and honors. We also have undertaken or participated in dozens of major research projects funded by the National Development and Reform Commission, the Ministry of Science and Technology, the Ministry of Industry and Information Technology, China Railway Group, the National Railway Administration, and the Beijing Municipal Government. We have also participated in or led the development of several national standards of the rail transit sector.

Rail Transit Signaling

Nearly 50% of the EMUs Adopted HollySys Onboard Signaling **System**

Nearly 30% of High-speed Transits and Urban Transits Adopted HollySys Ground Signaling System

SCADA, Signaling System, and etc. Applied to 59 Metro Lines Across

Edge Intelligent Controller (EIC) Programmable Logic Controller (PLC) Widely Applied to Metro, Highway and Civil Aviation Fields. Implemented 35+ Projects

Overseas Exploration

Provide Railway Signaling, SCADA Solutions, and Engineering Services to Nearly 10 Countries and Regions around the Globe.

> RAIL TRANSIT SIGNALING

The train operation control system is one of the core technologies for China's high-speed railway. HollySys has mastered this core technology with fully proprietary intellectual property rights by integrating imported technologies and conducting its own research and development. All related systems and products developed and designed have received the highest safety level certification (SIL4) by European authorities.

HollySys' onboard train control system has been installed on the Fuxing high-speed trains, and the ground-based system has been used on the Beijing-Zhangjiakou railway, marking HollySys' world-leading technology. Additionally, our computer interlocking, track circuit, and balise transmission systems were successfully deployed on numerous domestic and international lines. HollySys has also introduced innovative train control solutions tailored to diverse railway needs, optimizing operational efficiency and integrating new technologies with rail transit to drive high-quality railway development.

3,116 sets of our Onboard ATP System used for all types of Fuxing and Hexie trains operated on railways nationwide

ZPW-2000S Track Circuit System used on 22 railways in China and other countries

196 sets of our Computerbased Interlocking System used across China

1,253 sets of our Trackside Train
Control Equipment used for 76 main
line railways including high-speed
railways, intercity railways, and passenger
dedicated lines, with total length of over
15,000 km



Main Products

Train Operation Control System for Main Line Railways









Onboard ATP System

Radio Block Center

Train Control Center

TSR Server

Basic Signaling Products (e.g. track circuit, computer-based interlocking)

















Track Circuit

Computer-based Interlocking

Outdoor LEU System

LEU

Balise

Innovative Solutions

Signaling System Solution for Fournetwork

Solution for Dedicated Railway Control System

Signaling System Solution for Medium and Low Capacity Transportation

Train Control System Solutions Based on **Active Control**

> INTELLIGENT CONTROL

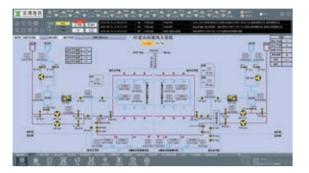
To meet customers' needs for improved travel experiences and lower operational costs, HollySys has leveraged over 30 years of technical expertise and research to create a comprehensive system of intelligent control products. We introduced an intelligent control solution, centered around the Edge Intelligent Controller (EIC), using a cloud-edge-end collaboration framework. This solution

significantly enhances the digitalization and intelligence of transportation control systems.





Main Products



SCADA Software Platform



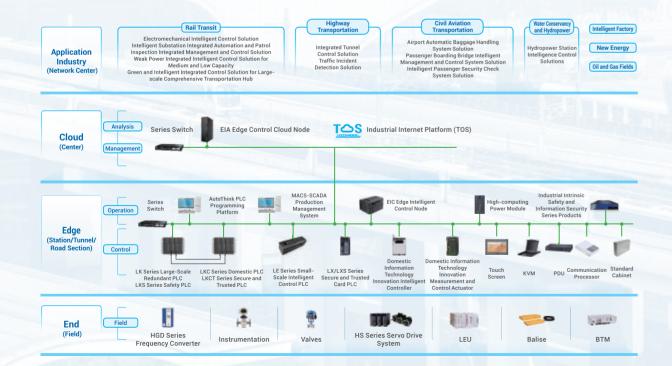
Comprehensive Business Platform for Intelligent Urban Rail Transit



Edge Intelligence Controller



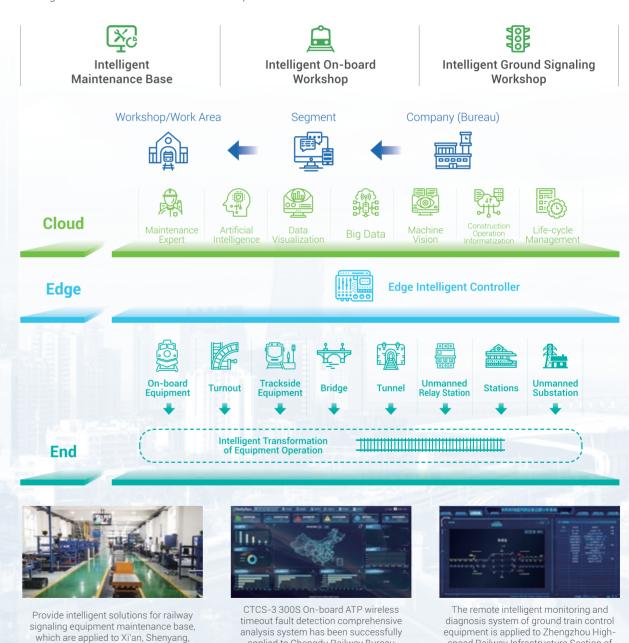
Edge Intelligence AIO Machine



> INTELLIGENT O&M

Chengdu and other railways

Following new infrastructure construction concept of seven major technical applications (developing industrial Internet and rail transit) proposed by China in the digital era closely, HollySys has leveraged its extensive experience in industrial intelligent plant projects and railway operations and maintenance. HollySys has built China Railway intelligent O&M solution based on "cloud-edge-end" technology architecture that takes industrial Internet and edge computing platforms as its core and integrates cloud computing, Internet of Things, big data, BeiDou Navigation, 5G communication, artificial intelligence and other advanced technologies. The solution enhances the safety, efficiency, and environmental sustainability of railway operations while facilitating the intelligent transformation of maintenance practices.



applied to Chengdu Railway Bureau

Guiyang Signal Section

speed Railway Infrastructure Section of

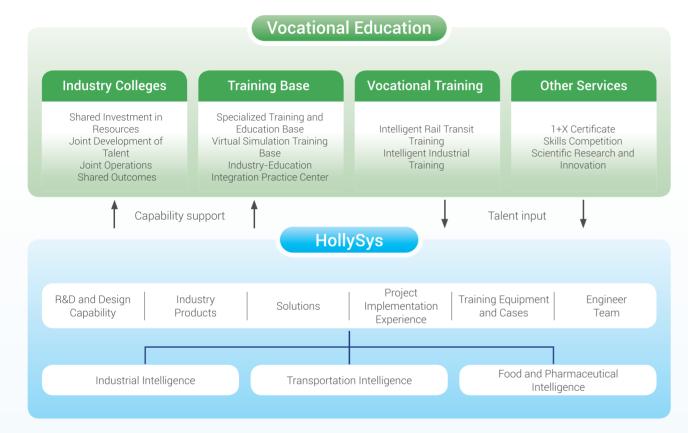
Zhengzhou Railway Bureau

VOCATIONAL EDUCATION

In response to the national initiative to deepen the integration of industry and education and to actively promote vocational education development, HollySys is drawing on over 30 years of industry expertise and experience, bringing advanced application practices and corporate resources into the educational sector, thereby establishing a new business model for vocational education in rail transit.

At present, HollySys has established strategic cooperation with more than 20 professional colleges and universities across the country, and built more than 30 training bases for railway bureaus and educational institutions, providing professional skills training for more than 5,000 people in total.

In the future, HollySys will explore new models for collaboration between industry and education by developing industry colleges, establishing training bases, and providing vocational training.





The First HollySys Rail Transit Industry Academy in China has been Established in Nanjing Vocational Institute of Railway Technology



Wuhan High-speed Railway Vocational Skills Training



China Railway Beijing Group Co., Ltd. Organized the "Induction Training Course for Train Control Equipment Maintenance Personnel"

OVERSEAS BUSINESS

Leveraging its technological strengths in the signaling field and extensive project implementation experience, HollySys provides top-notch safety control technology solutions and engineering services to global users. The extensive application of these solutions is driving the smart development of transportation safety in both domestic and international markets. Through continuous technological innovation, HollySys is bringing changes to travel experience and enhancing the global impact of China's high-speed railway.



↑ Undertook the SCADA project of Singapore Thomson-East Coast Line, which was the first large overseas SCADA project adopting domestically developed technology, marked a significant milestone towards overseas market.



↑ Turkey National Commuter Railway ETCS-2 train control onboard system supply project.



↑ As a system integrator, HollySys followed international standards to deliver signaling and master control system for the HongKong section of the Guangzhou-Shenzhen-HongKong high-speed railway, along with maintenance services. This achievement was awarded Quality Gold Medal by HongKong MTR.



↓ Undertook the master control system (1259) project of HongKong MTR East Rail Line, TML and Tung Chung Extension Line.



↓ PTC system certified by the Federal Railway Administration (FRA) was applied to LVRR line in the United States.



← Undertook upgrade and reconstruction project of ETCS-2 train control ground system for commuter railway network in Durban metropolitan area, South Africa.



 Undertook the construction of the first ART(Intelligent Express System) line master control system software and PLC project in Sarawak, Malaysia.



Expert on integrated solution of intelligent pharmacy and food & pharmaceutical intelligent factory

HollySys has provided integrated solutions and products for users in segments including TCM dispensing intelligence, TCM herbal pieces dispensing intelligence, packaging intelligence, food&pharmaceutical intelligent factory platform software. HollySys has assisted our customers significantly improve intelligence level and operation efficiency of TCM pharmacies, TCM decoction centers, and food&pharmaceutical manufacturing plants, driving the industry forward in terms of both innovation and productivity.

Apply to over

11,000

Medical Institutions

Over **15,000** Sets have been **Delivered**

The First Set

of Automated TCM Granule **Dispensing Equipment Automated TCM Herbal Pieces Dispensing Equipment** in China

TCM GRANULE DISPENSING INTELLIGENCE

HollySys Automated TCM Granule Dispensing Equipment is capable of identifying, weighing, and measuring medicines according to the prescribed or required dosage and the number of medicines and doses. It is designed to fully comply with the TCM concept of syndrome differentiation.



> TCM HERBAL PIECES DISPENSING AND DECOCTION INTELLIGENCE

HollySys Automated TCM Herbal Pieces Dispensing Equipment simulates the production of complete flow production lines, and implements a fully automatic process from dispensing and decoction to packaging.



More Efficient:

Convenient operation Time-saving and laborsaving

More Precise:

Multiple review and query of dispensing information + hardware self-inspection

Strong Applicability:Does not change doctor's

prescription habits
Does not change
business process of TCM

Standardized Management:

Avoid human-made errors during the dispensing process



TCM Granule Dispensing Equipment



Desktop TCM Granule Dispensing Equipment



Vehicle TCM Granule Dispensing Equipment



Automated TCM Granule Dispensing Equipment



Save up the labor and management costs of medical institutions

Improve the efficiency of TCM dispensing and taking medicine in hospitals

Promote the automation and intelligence of TCM pharmacy management

Maintain the traditional decoction methods with atmospheric pressure decoction, automated double-decoction and rapid concentration techniques

Precisely control the liquid output to ensure the quality and consistency of the decoction



Automated TCM Herbal Pieces Dispensing Equipment



TCM Decoction Packaging and Labeling Equipment



Intelligent Decoction Equipment



Automated TCM Herbal Pieces Decoction System

> INTELLIGENT PACKAGING PRODUCTION LINE

HollySys fully automated pharmaceutical packaging solution meets customers' needs for lean, efficient, and tailored product packaging at low costs and high quality. It widely applies to medicine, food, health products and other industries. It can be used for fully automatic weighing, filling, and sealing of medicines, foods, and health care products in various forms, including loose and non-viscous granules, pills, and liquids.

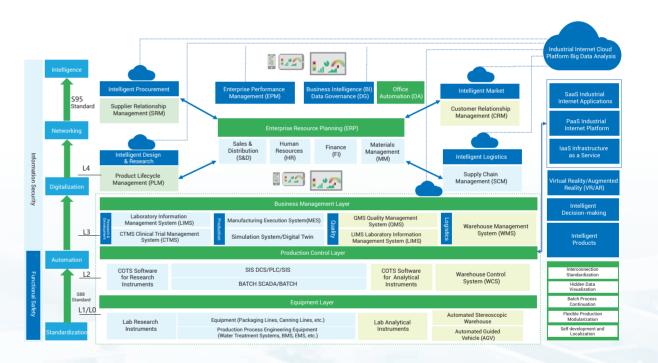




Fully Automatic Four-Side-Seal Packaging Line

> FOOD & PHARMACEUTICAL INTELLIGENT FACTORY SOLUTION

Based on the industrial software, intelligent equipment, fully automated production lines and digital platform, HollySys offers comprehensive lifecycle services, including top-level planning, validation consulting, plant design, automation and information system integration, engineering commissioning, and production operation and maintenance. HollySys empowers traditional factory to achieve intelligent operation, improving intelligent manufacturing level and competitiveness of food and pharmaceutical industry.





Based on the profound understanding of the global energy revolution and industrial application, HollySys continuously improves technology and business capabilities in new energy, energy conservation, and other fields, enables them to provide the best energy conservation and emission reduction solutions and products for industrial, transportation and medical customers, and helps enterprises achieve energy transition and become more environmentally friendly at the lowest cost possible.

Carbon Capture, Utilization, and Storage (CCUS)

Qilu Petrochemical-Shengli Oilfield CCUS Project

HollySys provided the integrated process control system and comprehensive solutions of DCS+SIS+GDS for this project, ensuring control, management, and operation integration of process equipment and supporting systems, offering solid support to users' overall operations.



million tons of carbon dioxide emissions are reduced annually

9 million new trees

0.6 million cars off the roat

> New Energy - Lithium Battery

Shandong Huaxia Shenzhou New Materials Co., Ltd. "10KT/A PVDF (Polyvinylidene Fluoride)" Project

HollySys provided this project with its advanced control systems, including OCS, DCS, SIS, AMS, enabling comprehensive process integration and fully automated operations throughout the project



Over **90%** of automation rate

Over **35%** increasing of production capacity

Over 20% of energy saving

> Waste-to-Energy

Vietnam Thành phố Cần Thơ WTE Plant

Cần Thơ Waste to Energy Plant, which was started from August 2017 and completed in November 2018, is the first civil waste to energy power plant in Vietnam. The system in the project includes DCS for Boiler, Turbine, Common System and Flue Gas System, and DEH and ETS for 1*7.5MW Steam Turbine.



56,700+tons of household waste has been processed, accounting for 60% of the total garbage clearance in Cần Thơ

12.43 million
KWH+ of green electricity
has been provided

1,700 residents' one-year electricity demand has been met

> Concentrated Solar Power

Shouhang Hi-Tech Energy Technology Co., Ltd. 100 MW Molten Salt Tower CSP Power Plant Project in Dunhuang

HollySys provided an integrated process control solution, network configuration solution, and APS optimization control solution for the entire an power generation system, including mirror field electrical systems, heat collection and storage, salt melting and discharge, electric heating, evaporation heat exchange, raw water treatment, wastewater treatment, air cooling, electrical control, and steam turbine generator systems. This power generation system continuously converted solar energy into clean electricity, which was then distributed to households through the power transmission network.



260 -meter central heat collection tower

12,000 "super mirrors"

350,000 tons of carbon dioxide emission reduction annually

390 million Killwatt-hours of the annual power generation

24 -hour continuous power generation

> New Energy - Green Hydrogen

Green Hydrogen Demonstration Project in Kuqa, the Xinjiang Uygur Autonomous Region, China

The largest project of green hydrogen production through photovoltaic power generation; laying a solid foundation for the large-scale and efficient production and utilization of green hydrogen; pushing towards carbon peaking and carbon neutrality.



20,000 tons/year of hydrogen production capacity of electrolytic water

210,000 cubic meters of hydrogen storage capacity

28,000 cubic meters per hour hydrogen transport capacity

485,000 tons of carbon dioxide emissions are reduced per year

> Biomass Power Generation

Guozhen Fuyang Biomass Comprehensive Utilization Industrial Park Biomass Cogeneration Project

The Project adopted HollySys' DCS system, integrating key functional modules such as Data Acquisition System (DAS), Modulating Control System (MCS), Sequence Control System (SCS), Furnace Safety Supervisory System (FSSS), Digital Electro-Hydraulic System (DEH), and Emergency Trip System (ETS) to achieve seamless and integrated control.



130 t/h furnace capacity

2 sets of furnace

30 MW turbine capacity

> Clean Energy

Ningxia Shoulangjiyuan New Energy Co., Ltd. Biological Fermentation of Ferroalloy Industrial Waste Gas to Fuel Ethanol Project

This project was the world's first to utilize tail gas from the ferroalloy industry to produce fuel ethanol through biological fermentation, moving beyond the conventional practice of using tail gas solely for power generation. HollySys offered self-developed MACS-K series DCS control system and SIS safety instrumented system for the core operations.



300 million cubic meters of annual treatment of ferroalloy ore furnace tail gas

180,000 tons of carbon dioxide emission can be reduced annually

45,000 tons of fuel ethanol production capacity per year

> Wind Power

Harbin Electric Corporation Wind Power Co.,Ltd Wuling Taojiang Wind Farm Blade Deicing Project

To enhance the utilization rate of wind turbines in regional power grids in winter, the blade deicing system improved the prediction of ice buildup on blades, forecasted wind power, and employed thermal methods for de-icing the turbines. These advancements contributed to a more stable wind power output and ensure the safe operation of the regional power grid.



50 MW capacity wind farm

25 sets of

2 MW capacity per unit

OUR CULTURE

After thirty years of steady growth, HollySys has built a culture focused on constant innovation, determined self-improvement, and practicality.

Operation Philosophy

Customers in Mind with Sincerity

Mission

Intelligence for Excellence

Policy

Starting from Original Mindset, Surpassing Previous Achievements, Creating New Brilliance

Vision

Building the Most Valuable Intelligent Company through Stable and Sustainable Development

Strategy

Intelligence, Professionalism, Localization

Value

Customer Value: Professional & Advanced Solutions, The Most Valuable Products, Satisfying & High-value Service

Employee Value: A Platform for Self-fulfillment, Fair Pay & Diversified Pay Models, Harmonious Working Environment

Shareholder Value: Accumulated Strength,
Steadily Growing Value, Excellent Corporate Image



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