



**Automation for Better Life**

**HollySys Group**

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## About HollySys

Founded in 1993, HollySys is the leading supplier of automation and information technology solutions with more than 60 representative offices across Asia Pacific and other regions. Currently HollySys employs more than 4,000 people around the world. With the group head office based in Beijing, our research and development centers, production or service bases are located in major Chinese cities such as Hangzhou, Ningbo, Cixi, Xi'an, and regional offices in Singapore, India, Malaysia, Indonesia, Russia and Italy.

HollySys focuses on three business areas: Industrial Automation, Rail Transportation Automation and Medical Automation\*. Combining our technical strength in automation and information technology, HollySys has introduced the "3 + 1 + N" business strategy, where "1" represents intelligent technology encompassing industrial Internet, industrial big data, artificial intelligence, and industrial information security, which empowers the "3" business areas and drives intelligent upgrade of the business lines; "N" is to enable the digital transformation of large enterprise customers and the construction of customer service platforms for small and medium-sized businesses, and help build a sustainable industrial Internet ecosystem and accelerate intelligent transformation of the industry.

Since its establishment, HollySys has been engaged in independent research and development of reliable, advanced and user-friendly technologies and products, and provides integrated solutions and full life cycle services. Over the two decades, HollySys has served more than 12,000 customers from various industries, and implemented more than 30,000 automation projects.

\*For HollySys (Asia Pacific) Pte Ltd, our third business area will be Mechanical & Electrical Engineering.



HollySys Beijing (Headquarters)



HollySys Hangzhou



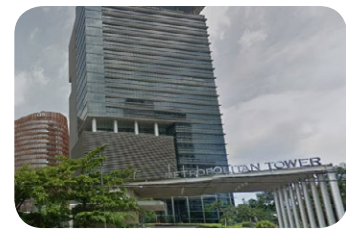
HollySys Xi'an



HollySys Ningbo



HollySys Singapore  
(International Business Headquarters)



HollySys Indonesia (Jakarta)



HollySys India (Noida)

# Corporate Culture

Objective: Improve people's work, life and environment with automation

Vision: Build the most valuable automation business through stable and sustainable development

Philosophy:

Business philosophy: Stand in users' shoes

Organization concept: Focus on talents

Working philosophy:

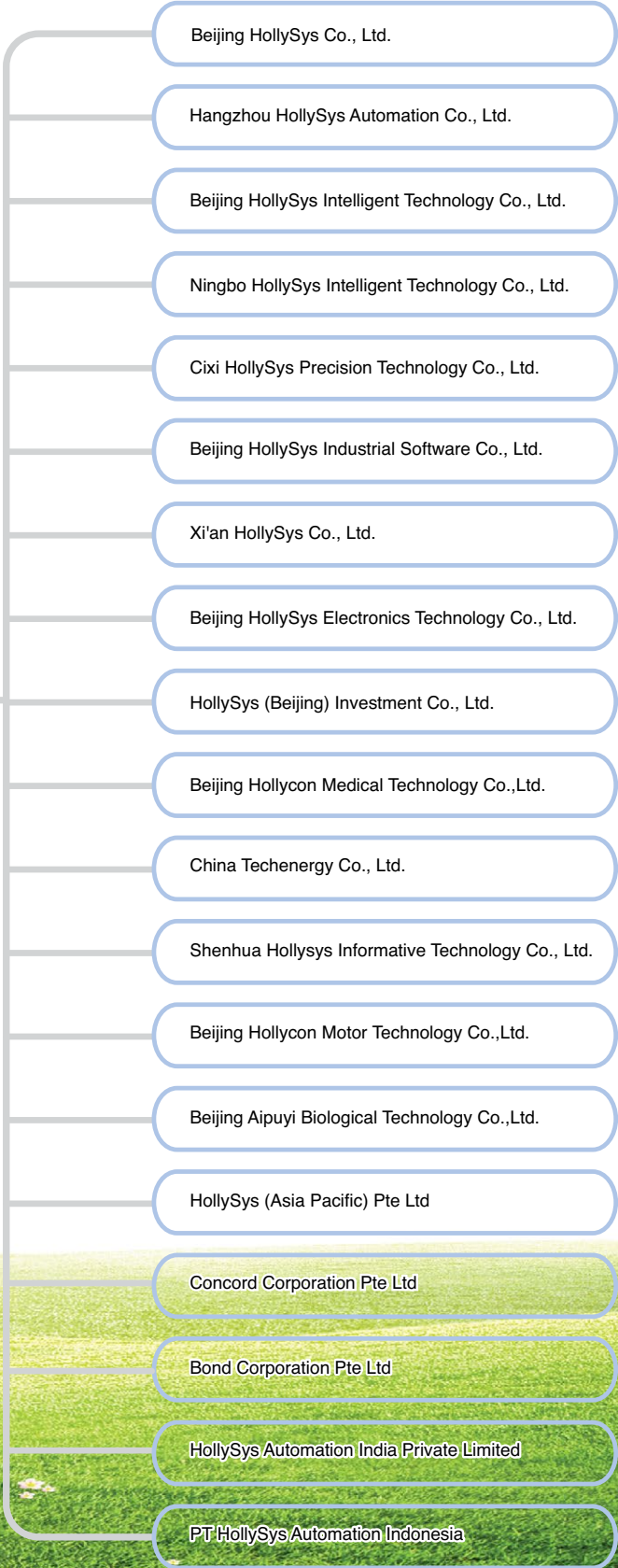
Value	Create value for customers through providing advanced solutions, cost-effective products, and quality value-added services
	Create value for employees through offering a platform for self-fulfillment, adequate and comprehensive compensation, and pleasant working environment
	Create value for shareholders through growing our technological strength, increasing our corporate value, and building a good reputation
Team	Dedication: Self-discipline and integrity Learning: Innovation and growth Cooperation: Happy and fruitfulness
Execution	Strategy: Precise and clear Operation: Standardized and procedure-driven People: Teamwork and committed to promises

Strategy: Expand our global presence through building our group structure and product portfolio

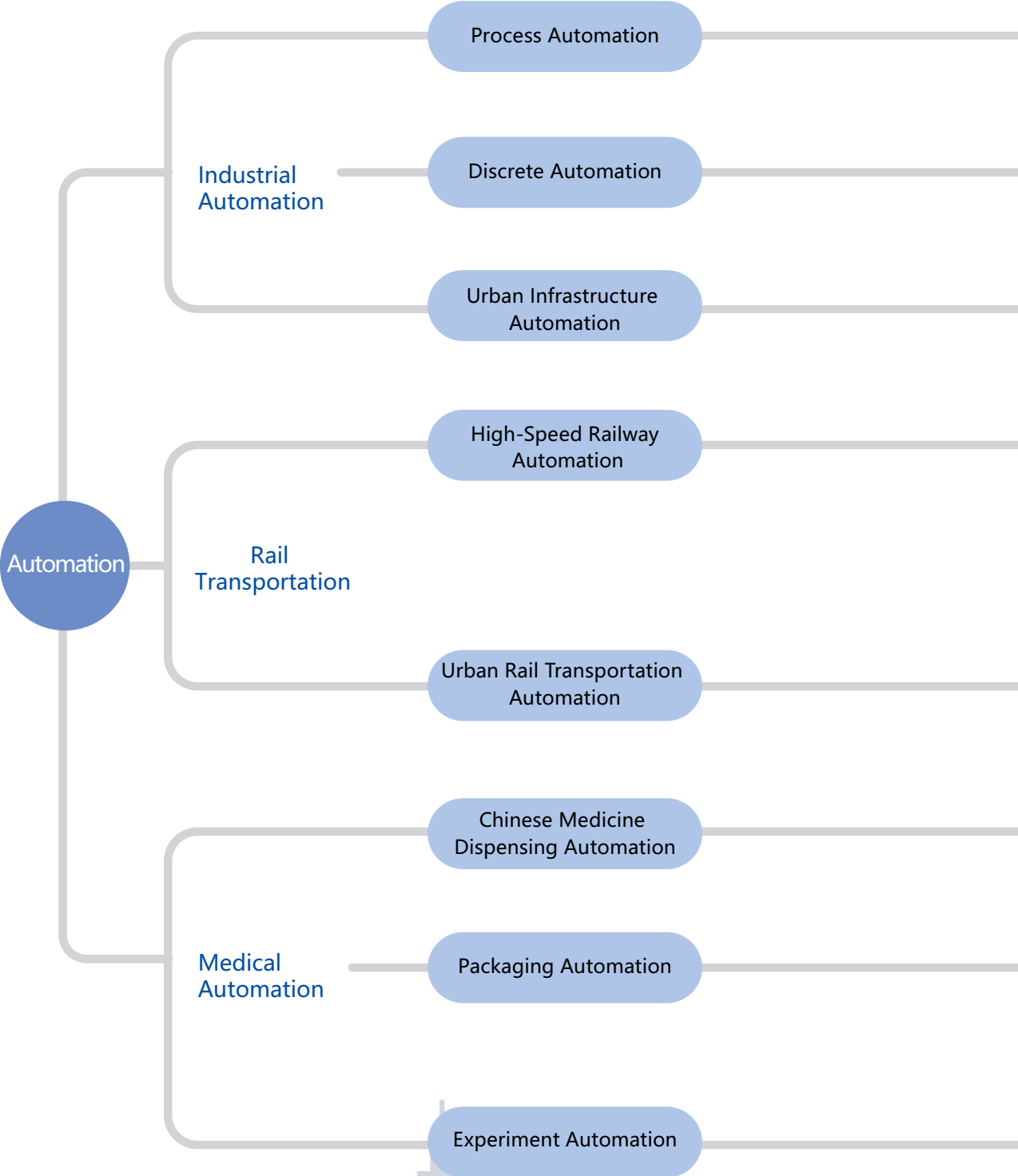
Guideline: Progress with ambition and caution, maintain inclusion and integrity, and act modestly

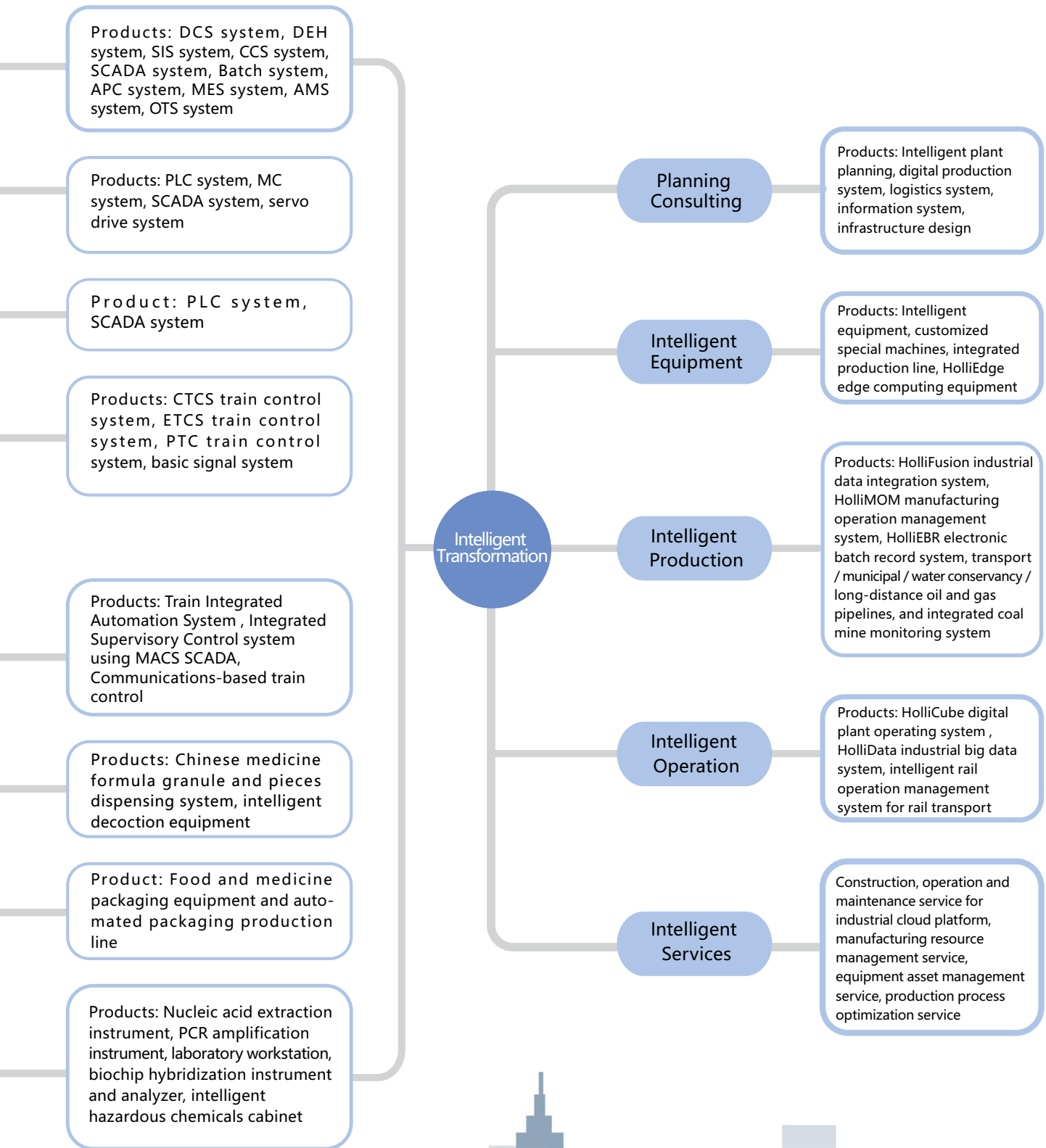
# Organization

## HollySys Group of Companies



# Business Lines





# Industrial Automation

## Process Automation

Relying on HOLLiAS\* industrial control technology platform, HollySys developed a range of reliable, advanced and user-friendly process automation system products for integrated solutions for industries. Main products include: Distributed Control System (DCS), Steam Turbine Digital Electro-Hydraulic Regulation System (DEH), Safety Instrument System (SIS), Compressor Control System (CCS), Automation Instrument, Plant Monitoring System (SCADA), Batch Control System (Batch), Advanced Process Control System (APC), Manufacturing Execution System (MES), Equipment Management System (AMS), Real-time Information System (RMIS), and Simulation Training System (OTS).

These core products are widely applied in fire power, thermal power, nuclear power, new energy, petrochemical, chemical, metallurgy, building materials, pharmaceutical, food, beverage and other industries. Thousands of projects have also been implemented annually across the regions. HollySys also provides engineering services including design, electrical installation, and on-site commissioning, as well as full life cycle services including operation, maintenance and optimization services.

\* HOLLiAS (HollySys integrated Industrial Automation System) is HollySys' proprietary integrated industrial automation

## Process Automation -- Main Products



HOLLiAS MACS-K  
Distributed Control System (DCS)



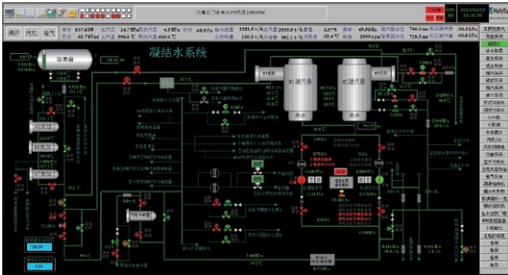
CE Certification



G3 Anti-Corrosion  
Certification



Achilles Level 2  
Certificate of Compliance



Process Monitoring and Management Software  
HOLLiAS SeriesMES/AMS/OTS/SCADA



# Process Automation -- Main Products



HiGuard Safely Instrumented System (SIS)



T800 Steam Turbine Digital Electro-Hydraulic Control System (DEH)



HOLLiAS MACS-N  
Digital Instrument & Control System for Nuclear Power Plants



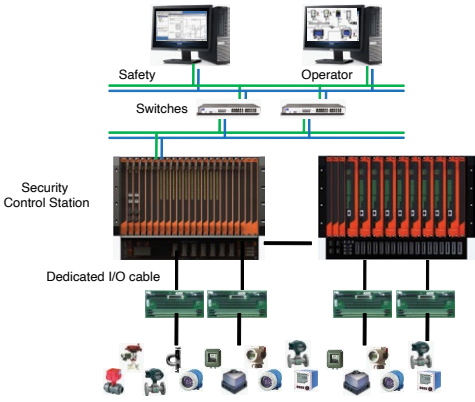
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AE 50271072 001



G3 Anti-Corrosion  
Certification No.  
AK 50312809 001



Achilles Level 2  
Certificate of  
Compliance



T880 Compressor Control System (CCS)

## Process Automation -- Power Industry

Embracing the vision of building a new generation of power plants that are digitalized and IT-based, HollySys introduces a plant-wide integrated solution to enable effective control and protection of main processes and auxiliary equipment including boilers, steam turbines, auxiliary engines, desulfurization and denitration system, and also provides an optimized control algorithm to optimize boiler combustion efficiency, resulting in improved utilization of primary energy and reduced pollutant discharge. The PLTU Morowali 1000MW ultra-supercritical coal-fired generating units equipped with HollySys Distributed Control System (DCS) is the largest thermal power plant project in Indonesia that is designed based on field bus technology and it incorporated HollySys DCS to enabled control of the supercritical circulating fluidized bed. HollySys also has solutions for integrated energy network management and energy saving optimization in combined heat and power generation, electricity, heating and cooling, new energy projects such as solar thermal power generation and waste power generation, and HollySys also has a good track record in the control of isolated grid operation. HollySys has provided automation control system for large power companies such as **Shenhua Group, China Datang Corporation, Perusahaan Listrik Negara(PLN), Thermax Limited and NTPC Limited.**



## Process Automation -- Petrochemical and Chemical Industry

Based on in-house core products, HollySys provides integrated process control and process safety & protection system for the petrochemical and chemical industries with Distributed Control System (DCS) + Safety Instrumented System (SIS) + Carbon Capture and Storage (CCS) at the core, which integrates the company's safety barriers and instruments, in addition to Batch, APC, SCADA, MES, AMS, and OTS, and can be connected to the industrial clouds to create horizontal and vertical plant-wide integrated solutions to enable automation, digitalization, networking, informatization and intelligent transformation of the plant. HollySys has provided automation solutions for large petrochemical or chemical companies such as **Sinopec**, **PetroChina**, **CNOOC**, and **BASF**.



## Process Automation -- Nuclear Power Industry

HollySys has developed the HOLLiAS MACS-N digital instrument and control system for the special safety and function requirements of the nuclear power industry, which enables full autonomy of digital instrument and control system for nuclear power plants. HollySys nuclear-graded control system are presently deployed at nuclear power plants around the regions, with the Chashma nuclear plant in Pakistan as a notable end-user.



# Industrial Automation

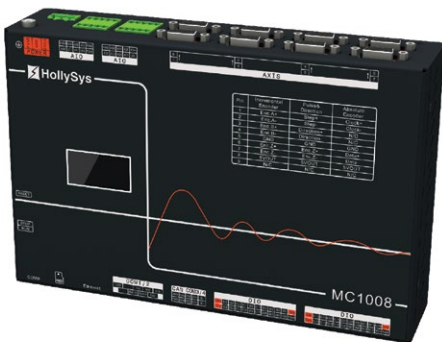
## Discrete Automation

HollySys provides customers with complete automated, intelligent and IT-based solutions covering facilities, production line, workshop and the entire plant, serving the entire life cycle from business construction, operation to maintenance. HollySys large programmable logic controller (PLC), motion controller, large integrated monitoring system (SCADA), and manufacturing execution system (MES) are prevalent in municipal infrastructure, water supply, high-end machinery equipment control and discrete manufacturing plant control. MC series high-end motion controllers are widely used in high-speed computer numerical control (CNC) cutting machine tools, precision sheet metal bending computer numerical control (CNC) machine tools, precision laser processing tools and other high-end equipment.



HOLLIAS Series SCADA / MES / WMS / OPC Connected Equipment, Production Planning, and Warehouse Management Software

TÜV SÜD Certifications



MC1000 Series High-end Motion Controller



LK220 Series Independent Large Programmable Logic Controller

# Industrial Automation

## Urban Infrastructure Automation

With a new generation of in-house hardware platforms including LK series large PLCs and LKS large PLCs, and combining the new-generation large integrated monitoring system (HollySCADA), HollySys provides integrated solutions for urban railways, long-distance oil and gas transportation, urban natural gas transmission, municipal water supply (water supply, drainage, sewage treatment, etc.), and underground pipelines.



HollySCADA Monitoring Interface



LK210 Large-Scale Series Programmable Logic Controller (PLC)



LE Compact Series Programmable Logic Controller (PLC)

# Rail Transportation Automation

## High-Speed Railway Automation

HollySys is the leading supplier of train operation control systems for high-speed railways in China, and has developed the CTCS-3 train control system (350 km/h), CTCS-2 train control system (250km/h) , CTCS-1 train control system (200 km/h and below) and CTCS-0 train control system (160 km/h and below). Main products include: Train Control Vehicle System (ATP), Radio Blocking Center (RBC), Train Control Center (TCC), Transponder Transmission System (BTM, LEU, Balise), Computer-based Interlocking (CBI), Rail Circuit (TC), with all products passing the highest safety certification (SIL4) of European authorities. HollySys also developed an urban railway control system based on the high-speed railway control technology platform and the subway train control technology platform. HollySys train control system has been successfully applied to more than forty high-speed railways and urban railways including Zhengzhou-Xi'an line, Guangzhou-Shenzhen-Hong Kong line, Beijing-Shijiazhuang-Wuhan line, Lanzhou-Urumqi line, Hefei-Nanjing line, Suining-Chengdu line, Qingdao-Rongcheng line, and Foshan-Zhaoqing line.



# High-Speed Railway Automation -- Main Products



Train Control Vehicle System (ATP)



Radio Blocking Center (RBC)



Train Control Center (TCC)



Temporary Speed Restriction Server (TSRS)



CCS-HS Communication Control Server



Transponder Transmission System (BTM, LEU, Balise)



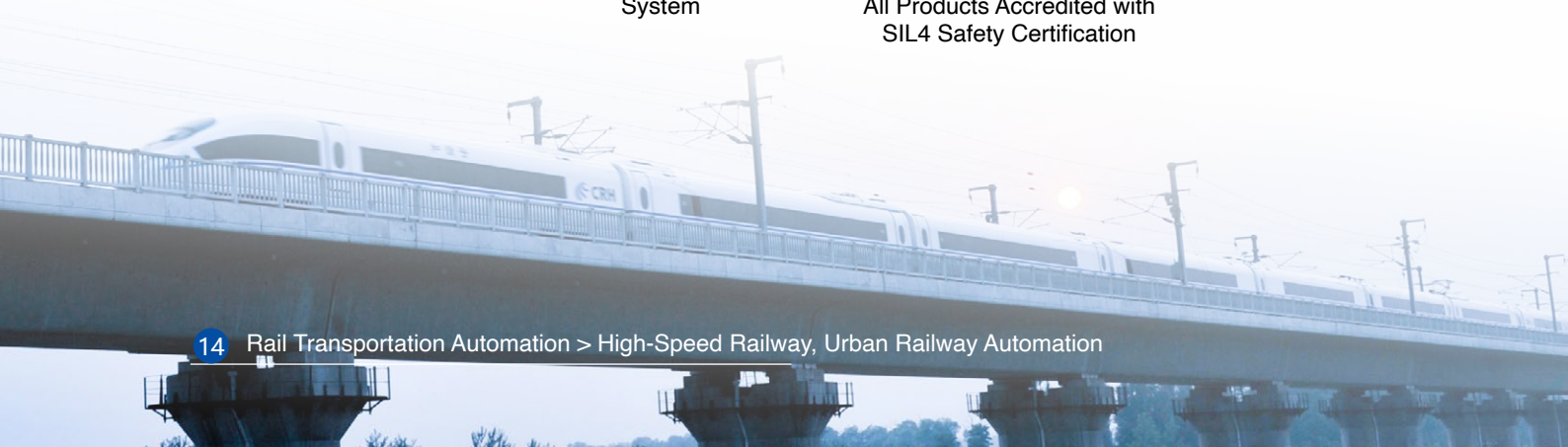
Urban Railway Train Control Vehicle System



Train Operation Control Products Provided by HollySys  
All Products Accredited with SIL4 Safety Certification



Uninsulated Track Circuit System (TC)

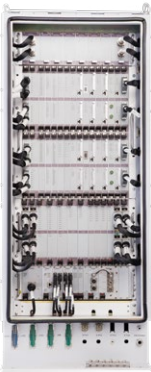




# Rail Transportation Automation

## Urban Rail Transportation Automation

HollySys has developed its own integrated transport automation system, integrated monitoring system, and subway signal systems for urban rail transportation, and is the leading supplier of urban rail transportation automation control system in China. HollySys Communications-based Train Control (CBTC) consists of Vehicle On Board Controller (VOBC), Automatic Train Monitoring (ATS), Zone Controller (ZC), and Computer-based Interlocking(CBI), providing support for the Full Automatic Driving Mode (FAO). All products have passed the Safety integrity level (SIL) of European authorities. HollySys not only provides core products and system, but offers engineering services such as solution design, electrical installation, and on-site commissioning, as well as life-cycle operation, maintenance and optimization services. HollySys' products have also been deployed in dozens of metro lines across major cities including Beijing, Shenzhen, Guangzhou, Hong Kong, and Singapore. Among those, the **Thomson-East Coast Line** in Singapore marks a major breakthrough in the deployment of HollySys integrated monitoring system that cover 31 train stations.



HCC-1000  
Vehicle Controller  
(VOBC)



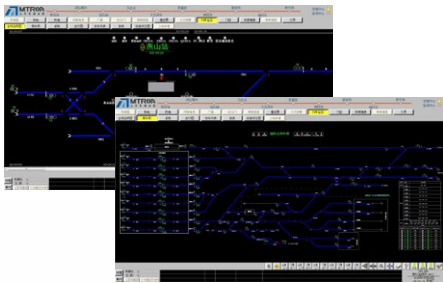
HCM000  
Interlocking System  
(CBI)



HZC-1000  
Zone Controller (ZC)



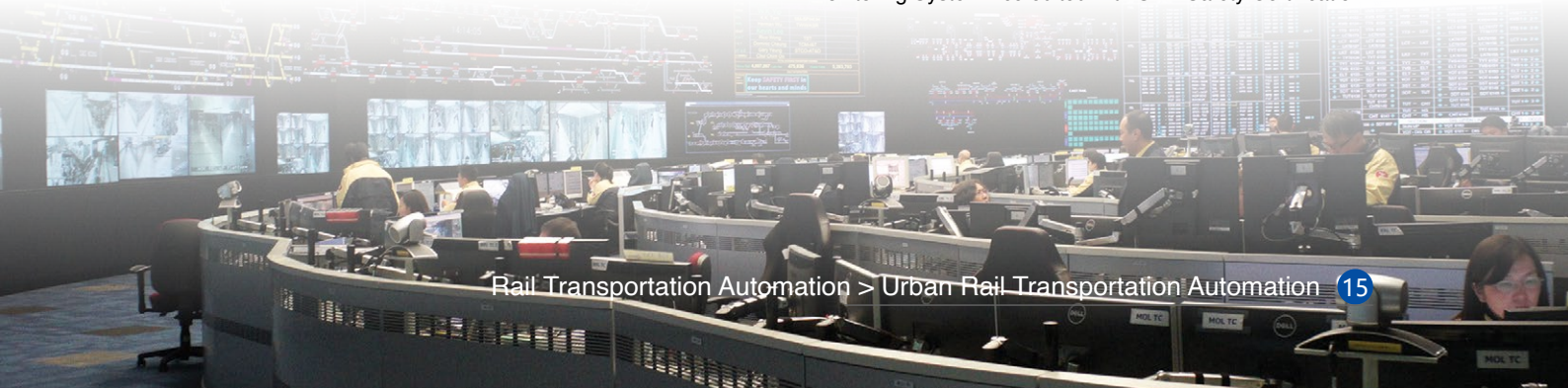
MACS-SCADA Integrated Supervisory  
Control System (ISCS) Based on Cloud  
Platform



ATS-1000 train  
Automatic Monitoring System (ATS)



The Control System Accredited with SIL4 Safety Certification  
Monitoring System Accredited with SIL2 Safety Certification



## Medical Automation

### Traditional Chinese Medicine Formula Granule Automatic Dispensing System

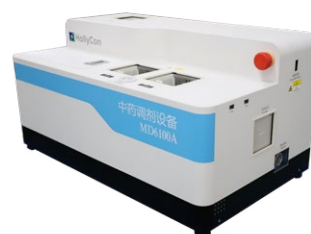
Traditional Chinese Medicine (TCM) granules are made by extracting and concentrating a single kind of TCM for clinical use. HollySys Chinese medicine granule dispensing equipment enables intelligent drug identification, weighing, measurement and other operations according to the doctor's prescription or the dosage, taste and number of dosages required for patients, which complies with the principles of TCM syndrome differentiation and treatment, as well as symptomatic addition and subtraction. Currently tens of thousands of HollySys units have been deployed at more than 6000 medical institutions in China.



MD6110 Chinese Medicine Granule Dispensing System



MD6120 Chinese Medicine Granule Dispensing System



MD6100A Chinese Medicine Granule Dispensing System

### Traditional Chinese Herbs Automatic Dispensing System

HollySys independently developed the first automatic traditional Chinese herbs dispensing system that consist of a dispensing equipment, auxiliary intelligent decoction and packaging equipment, which follows a complete industrial assembly line production model to enable a fully automated process that reduces wastage of ingredients caused by traditional manual dispensation. This allows cost saving on labor and ingredients for medical institutions which is accumulating year by year, improving the efficiency of Chinese pharmacy management.



MD6400 Chinese Herbs Dispensing System



MD6603 Intelligent Chinese Herbs Decoction Equipment

# Medical Automation

## Automation in Packaging

For packaging production, HollySys offers a complete line of automated packaging products which has been widely recognized by customers. It has secured a competitive advantage in the packaging product market by meeting customers' needs for lean, customized product packaging with low cost, high efficiency, and high quality. Committed to creating intelligent, digitalized, and IT-based equipment, HollySys is a leader in shaping the trends of the packaging market, providing important support and services for the larger pharmaceutical industry.



Automatic Single Row Packaging Machine



Automatic High-Speed Bottling Machine



Automated Packaging Line

## Medical Devices Automation

For molecular diagnosis, HollySys launched a number of medical devices such as nucleic acid extraction instrument, PCR instrument, biochip hybridizer and analyzer, which helped establish a fast and advanced molecular biology experiment and diagnosis platform.



AE2110 Fast Nucleic Acid Extraction Instrument



AE2100 Nucleic Acid Extraction Instrument



AP2310 Shared PCR Instrument



AS2400 Intelligent Strong Acid and Alkali Storage Cabinet

# Intelligent Transformation

## Intelligent Production

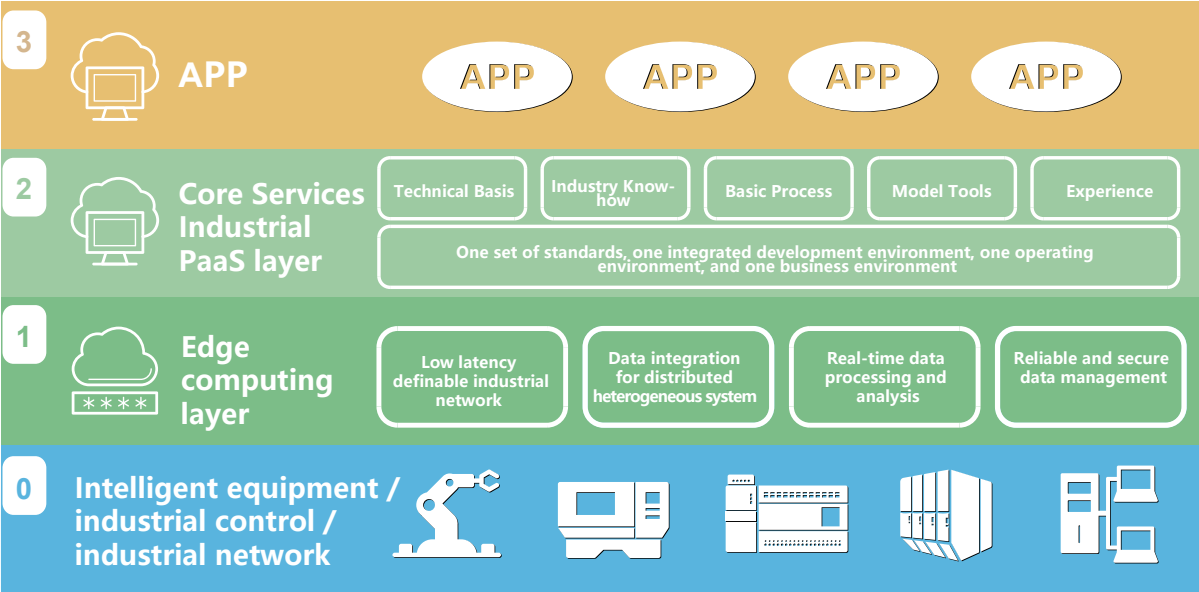
Based on the business requirements of customers, HollySys takes a systematic approach to the basic manufacturing elements including manufacturing processes, production organization, logistics and storage, and infrastructure. Leveraging on the intelligent plant solution, it adopts the "Digital Manufacturing + Industrial Internet of things (IIoT)" model to provide industrial data fusion system (HolliFusion), manufacturing operation management system (HolliMOM), electronic batch record (HolliEBR), integrated monitoring system (HolliSCADA) and other intelligent production management and control systems to help customers transition from automated production to intelligent production.



# Intelligent Transformation

## Intelligent Operation

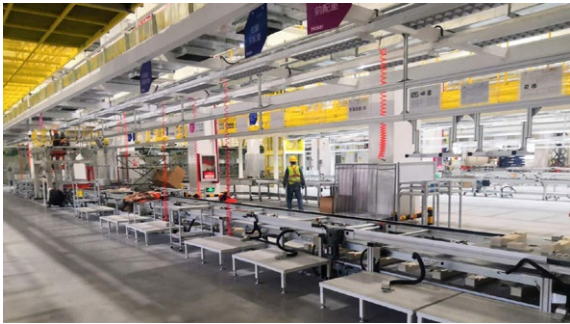
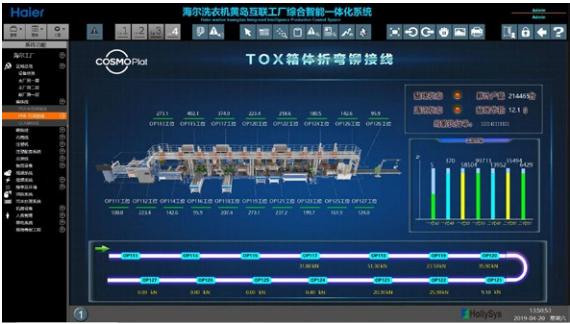
Following the trend towards Industry 4.0, HollySys introduces the digital plant operating system (HolliCube) that focuses on production resource scheduling and equipment asset management. This enable deep integration of newer technologies such as big data, IIoT, artificial intelligence (AI) with industrial manufacturing and processes technologies to provide a holistic digital platform our customers.



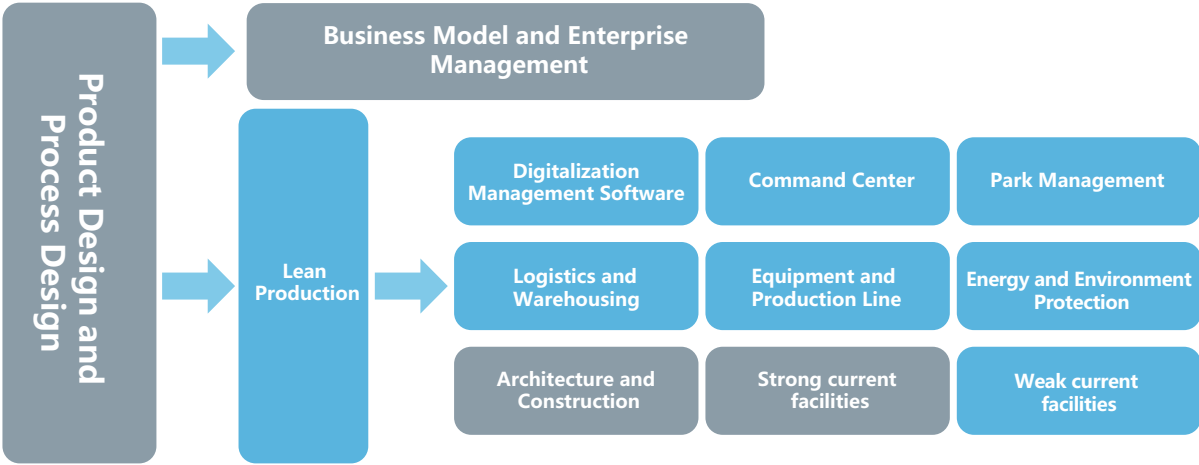
# Intelligent Transformation

## Intelligent Services

HollySys helps customers to explore new business models and management concepts in Industrial 4.0 by introducing a complete intelligent plant solution that is driven by business goal and operation data. The solution includes consultation services such as intelligent plant planning, industrial cloud platform setup, operation and maintenance, manufacturing resource management, equipment asset management, and production process optimization.



## Owner: Planning Stage



## HollySys: Execution Stage

HollySys Intelligent Plant solution includes: business objective analysis, solution reference architecture (structure, module, standard, interface), technology platform framework, evaluation system, implementation road-map and methodology.

# Intelligent Transformation

## Intelligent Equipment

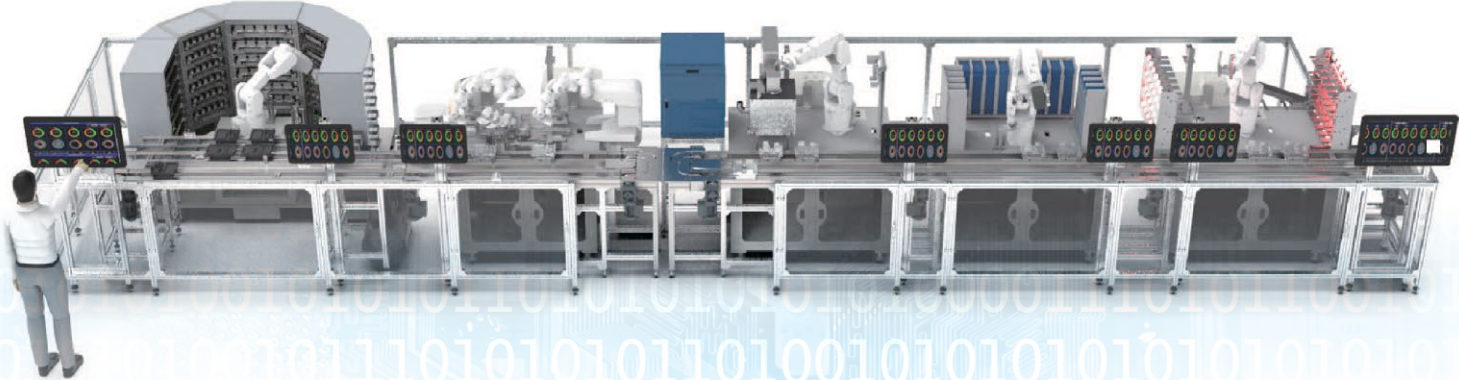
Based on its core competency in industrial automation, HollySys provides customized intelligent equipment and flexible automation production lines for enterprises in different industries to meet personalized customer needs and replace human operation by machine, improve productivity and quality; Edge computing and open industrial Internet protocol are used to provide real-time two-way data exchange and interoperability with SCADA, MES, WMS and other production information system, enabling production process transformation, reduced manufacturing cost, and improved competitiveness. A recent project involving HollySys intelligent equipment will be the self-developed Automatic Hot Pot Machines that were deployed in **Haidilao's** chain of smart restaurants in Beijing and Singapore.



Verification of MD Compliance for Hot Pot Machine



Automatic Hot Pot Machine



# R&D and Production Facilities

HollySys has established more than ten R&D and simulation test centers for thermal power, nuclear power, petrochemicals, and rail transportation. HollySys Reliability Test Center has passed TÜV Rheinland (TÜV) ISO / IEC 17025 laboratory certification, and is the first reliability test center in China to obtain TÜV certification.

## Reliability Test Center



HollySys Reliability Test Center



Walk-in High and Low Temperature Alternating Humidity Test



Component Screening and Aging Test



Temperature Shock and Temperature Change Test



Electromagnetic Compatibility Test



Electric Vibration Test

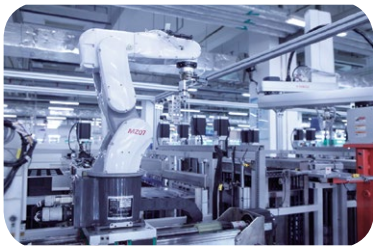
## Train Control Simulation Center







HollySys automation product plant has adopted a lean, automated and information-based management system with efficient production outputs.



Production Workshop



Assembly Workshop



Commissioning Workshop

## Contact

**Beijing HollySys Co., Ltd. (Group Headquarters)**

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