

# T-EPC LEADER IN PHARMACEUTICAL ENGINEERING

## 医药工程T-EPC引领者



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**TIAN'S** 天俱时

TECH THE FUTURE

技驭未来

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# 企业简介 ABOUT TIANS

# 企业文化 CORPORATE CULTURE

## 25+

### 年发展历程

More than 25 years of development

天俱时始创于1998年，是一家赋能新技术产业化的工程设计集团，依托先进的设计理念和前瞻性的国际视野，为全球客户提供技术研发、工程咨询与设计、工程总承包、智能装备、自动化与信息化于一体的综合解决方案，帮助客户实现From Lab to Fab的产业化转化。业务涵盖精细化工、电子化学品、合成生物、生物医药、化学制药、食品健康、冶金矿山等高科技行业领域。

## 百强

### 中国工程总承包营业额

China's top 100 project general contracting turnover

天俱时具有强大的工艺技术能力，拥有瑞士咨询创新中心、智能装备研发中心、生物工程实验室、化学工程实验室等多个技术研发平台，拥有10余位国内外院士和科学家，200余位资深工艺技术专家、工程设计专家及生产管理专家，先后为500余家知名企业提供咨询设计服务及工程解决方案，完成2000余个精品项目建设，业务遍及中国、东南亚、欧洲、美国、南非等30余个国家和地区。

## 60+

### 中国医药工业百强企业

60 of China's Top 100 Pharmaceutical industry Enterprises

TIANS Engineering Technology Group Co., Ltd., founded in 1998, is an engineering design group empowering industrialization of new technologies. Based on advanced design concept and forward-looking global perspective, we provide comprehensive solutions involving technology R&D, engineering consulting and design, EPC, intelligent equipment and automation & digitalization to help our clients achieving a From Lab to Fab industrialization transformation. Our business spans many high-tech fields, including fine chemical engineering, electronic chemicals, synthetic biology, bio-pharmaceutical, chemical pharmaceutical, healthy food and metallurgy & mining.

## 2000+

### 精品项目

More than 2000 boutique projects

The greatest strength in TIANS lies in the process technologies as we set up a consultancy and innovation center in Switzerland, an intelligent equipment R&D center, a bioengineering laboratory, a chemical engineering laboratory and many other technology R&D platforms, employ a dozen of domestic and foreign academicians and leading scientists, and over 200 seasoned process technology experts, engineering design experts and production management specialists, provides consulting and design service and engineering solutions for more than 500 established companies, and accomplishes over 2,000 quality projects in more than 30 countries and regions, including China, Southeast Asia, Europe, the US and South Africa.

我们的愿景是建设全球一流的工程设计集团，以科技引领未来，以创新驱动发展，持续关注并准确把握客户需求，为客户创造核心价值，推动行业前行发展，造福社会，惠及未来。

Our vision is to building TIANS into a word-class engineering design group, lead the future with science and technology, drive development with innovation, continuously pay attention to and accurately grasp customer needs, create core values for customers, promote the development of the industry, benefit the society



### 企业愿景

将公司建设成  
为全球一流的

工程设计集团  
Building TIANS into a  
world-class engineering  
design group.



### 核心价值观

为客户创造价值  
为员工创造价值  
为社会创造价值

Create value for customers;  
Create value for employees;  
Create value for society.



### 文化理念

平等·尊重·信任  
合作·分享

Equality, Respect, Trust,  
Cooperation, Sharing





# 行业领域 INDUSTRY FIELD

## 化学医药

Chemical Pharmaceutical



发酵原料药

Fermented APIs

合成原料药

Synthetic APIs

无菌原料药

Sterile APIs

口服制剂

Oral Preparations

无菌制剂

Sterile Preparations

.....

## 生物医药

Biopharmaceutical



抗体偶联药物

Antibody-drug Conjugate

疫苗

Vaccines

抗体药物

Antibody drug

细胞与基因治疗

Cell&Gene Therapy

胰岛素

Insulin

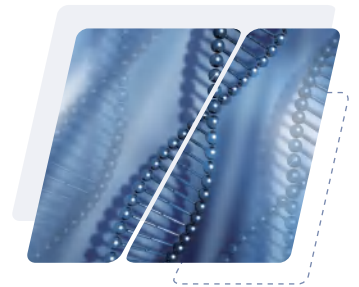
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## 合成生物

Synthetic Biology

生物材料、医美、天然健康产物、农药、兽药.....

Biomaterials, medical aesthetics, natural health products, pesticides, veterinary drugs...



## 精细化工

Fine Chemical Engineering

锂电新材料、功能高分子材料、香精香料、各种专用化学品及助剂.....

Lithium battery new material, functional polymer materials, flavors and fragrances, various special chemicals and auxiliaries...



## 医疗器械

Medical Equipment

体外诊断、骨科材料、血袋、心脏支架、血液净化/灌流器、医用手套/口罩.....

In vitro diagnosis, Orthopedic Materials, Blood bag, Cardiac stent, Blood purification / Hemoperfusion device, Medical Glove / Mask...



## 食品健康

Food Health

食品、饮料、保健品.....

Food, Beverage, Health Care Products...





# 权威资质 QUALIFICATION

## 咨询与设计资质 / CONSULTING AND DESIGN QUALIFICATION

- 化工石化医药行业工程设计甲级  
Class A for engineering design in chemical, petrochemical and pharmaceutical industry
- 建筑行业工程设计建筑工程甲级  
Class A for engineering design in construction industry (construction engineering)
- 工程咨询单位甲级资信  
Class A for engineering consulting company
- 环境工程设计专项水污染防治工程甲级  
Class A for environmental engineering design in special water pollution prevention and control project
- 环境工程(固体废物处理处置工程、大气污染防治工程)专项乙级  
Class B for special environmental engineering (solid waste treatment and disposal engineering, air pollution prevention and treatment)
- 轻纺行业轻工工程乙级  
Class B for light industry engineering in light textile industry
- 特种设备固定式压力容器设计  
Design of fixed pressure vessel for special equipment
- 特种设备压力管道设计GC1、GC2  
GC1, GC2 for pressure pipeline design of special equipment

## 施工资质 / CONSTRUCTION QUALIFICATION

- 机电工程施工总承包壹级  
General contracting level I for mechanical and electrical engineering construction
- 建筑工程施工总承包贰级  
General contracting level II for construction engineering
- 石油化工工程施工总承包贰级  
General contracting level II for petrochemical engineering construction
- 市政公用工程施工总承包贰级  
General contracting level II for municipal public works construction
- 电子与智能化工程专业承包壹级  
Professional contracting level I for electronic and intelligent engineering
- 防水防腐保温工程专业承包壹级  
Professional contracting level I for waterproof and anti-corrosion insulation engineering
- 建筑装修装饰工程专业承包壹级  
Professional contracting level I for building furnishing and decoration engineering
- 环保工程专业承包贰级  
Professional contracting level II for environmental engineering
- 钢结构工程专业承包贰级  
Professional contracting level II for steel structure engineering
- 消防设施工程专业承包贰级  
Professional contracting level II for fire fighting facilities engineering
- 电力工程施工总承包叁级  
General contracting level III for power engineering construction
- 输变电工程专业承包叁级  
Professional contracting level III for power transmission and transformation engineering
- 特种设备压力管道安装GC2级  
Special equipment pressure pipe installation GC2



# T-EPC工程总承包

## T-EPC

### 天俱时交付 超越客户预期

TIANS Delivery, exceed client expectations

天俱时集团是T-EPC模式的首创者和践行者,致力于为客户提供项目建设全过程各阶段的整体解决方案,以**工艺技术与设计为核心**,以**系统集成优化为特色**,以**一次性试生产成功为目标**,帮助客户应对创新技术产业化的复杂挑战,实现From Lab to Fab的信仰之跃。

TIANS Engineering Technology Group Co., Ltd. ("TIANS") emerges as a trailblazer and proponent of the T-EPC model, committed to offering all-inclusive solutions throughout every stage of project development. **With a focus on process technology and design, characterized by system integration excellence, and a goal for first-time-right trial production**, we guide our clients through the intricate maze of technological industrialization. We bridge the gap, making "From Lab to Fab" tangible.



# 工艺技术服务

## PROCESS TECHNOLOGY SERVICES

### 技术专家多维支持, 提供各阶段专业服务

Technical Experts Support, Professional Services of All Stages Provided

天俱时T-EPC模式以技术为引领(T),通过搭建强大的技术平台以及配置众多的专业技术人员,深刻理解和优化生产工艺,从**源头和实施全过程保障项目的工艺合理性、经济适用性和工程可实施性**,实现一次试车成功,快速有效帮助项目落地。

The TIANS T-EPC model is technology-led. Based on a strong technology platform and a large number of professional and technical personnel, as well as a good grasp of the optimized production process, it ensures **appropriate process, economic viability and engineering feasibility of the project at source and throughout the implementation process**, realizing a successful test run for the project.





# 工程咨询与设计

## ENGINEERING CONSULTING AND DESIGN

**设计服务全线贯穿, 见证项目从始到终**  
Design service runs through the whole process.

**双行甲** Double A  
资质

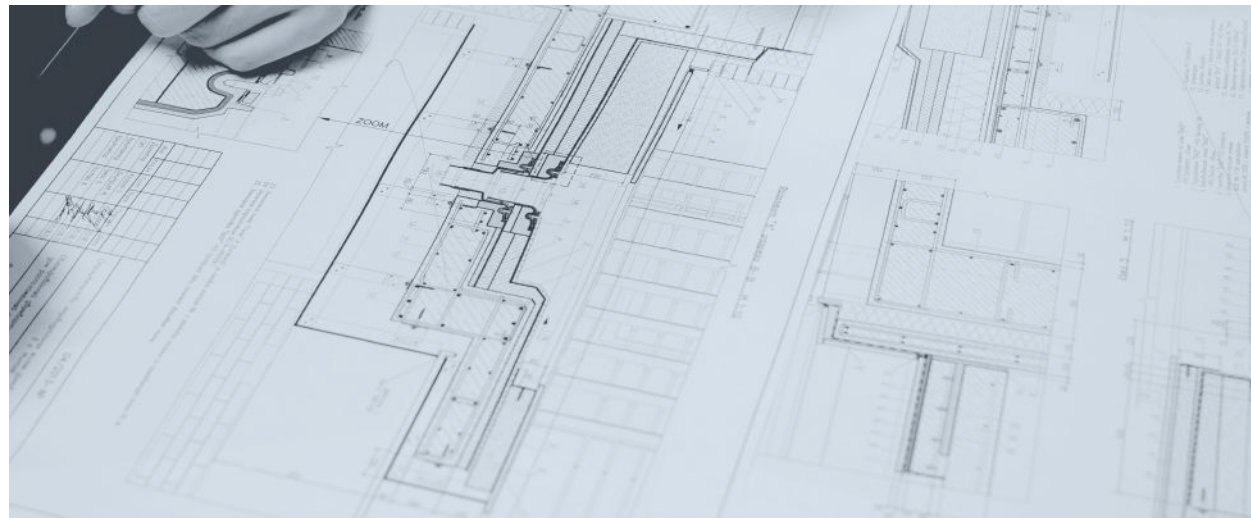
**BIM** BIM Center  
中心

**160+** Design Team  
设计团队

**300+** Design Project Cases  
项目案例

天俱时设计拥有瑞士生物医药咨询创新中心和医药化工工程设计公司两大团队, 是天俱时集团实施T-EPC战略、完成“天俱时交付”的核心与龙头。以20余年服务于制药行业的工程总承包经验为基础, **设计成员兼备丰富的生产管理经验、工程设计经验和工程建设经验**, 通过“设计+BIM”双驱动模式, 帮助客户实现方案、投资、进度和项目品质的全方位保证, 提供最具落地性、符合项目需求的设计服务。

TIANS Design has two teams: Swiss Biomedical Consulting and Innovation Center and Pharmaceutical and Chemical Engineering Design Company, which are the core platforms for TIANS Group to implement the T-EPC strategy and ensure “TIANS delivery”. The design members have over 20 years of EPC experience in the pharmaceutical industry, **covering production management, engineering design and engineering construction**. The team helps customers achieve all-round assurance for scheme, investment, progress and project quality through the “Design + BIM” model by providing the most feasible design services that meet project needs.



### 咨询服务

- 项目评估与规划
- 项目建议书
- 可行性研究
- 概念设计
- 安全诊断
- 绿色建筑与节能评估

### Consulting Services

- Project Evaluation and Planning
- Project Proposal
- Feasibility Study
- Conceptual Design
- Safety Diagnosis
- Green Building and Energy Saving Assessment

### 工程设计

- 基础设计
- 详细设计
- BIM设计
- 消防设计专篇
- 安全设施设计专篇
- 职业病防护设施设计专篇

### Engineering Design

- Basic Design
- Comprehensive Design
- BIM Design
- Chapter for Fire Safety Design
- Chapter for Safety Infrastructure Design
- Design of Occupational Disease Protection Facilities

### BIM中心

- 建筑性能模拟分析
- 参数化找形
- 可视化
- 设计校审
- 孪生模拟
- 管线综合管理
- 净空优化
- 3D施工图
- 施工方案模拟
- 三维工程量统计
- 管道预制、钢结构预制和风管预制

### BIM Center

- Building performance simulation analysis
- Parametric formfinding
- Visualization
- Design review
- Twin simulation
- Pipeline comprehensive management
- Headroom optimization
- 3D construction drawings
- Construction plan simulation
- 3D engineering quantity statistics
- Pipeline prefabrication, steel structure prefabrication, and air duct prefabrication

# 工程实施

## PROJECT IMPLEMENTATION

### 把每个项目都打造成精品工程

Make each project a high-quality project

天俱时工程拥有丰富的T-EPC模式工程管理经验,遵循良好的工程质量管理规范,具备复杂工艺系统的二次优化设计、施工及设施管理能力,配备全专业技术团队,能有效控制工程的工期、质量、安全、成本、文明施工等,为客户提供超越预期的服务。

TIANS Engineering has rich experience in engineering management under the T-EPC model, and follows engineering quality management standards in the work. It has capabilities in the secondary optimization design and construction of complex process systems, as well as facility management. The full professional technical team provides customers with services that exceed expectations through **its effective control of the construction timescale, quality, safety, cost, and eco-friendly construction.**

### 二次优化设计

Secondary Optimization Design

组织工艺、设计人员、施工人员、造价工程师等专业技术人员,对图纸认真分析和理解,进行二次优化设计,发现问题,优化工艺。

Organize designers, constructors and cost engineers and other related persons to analyze and understand the drawings carefully, conduct secondary optimization design.

### 一站式集采中心

One-stop Gathering Center

天俱时拥有强大的信息平台 and 完善的供应链管理体系,可以大大缩短设备、材料的订货周期,为业主提供一站式高性价比的设备、材料,从而可缩短施工周期,保证高性价比的设备选择方案。

TIANS boasts a powerful information platform and a perfect supply chain management system, which can significantly shorten the order cycle time of equipment and materials. It provide the owners with one-stop cost-effective equipment and materials and shortens the construction period.

### 全专业集成

Full Professional Integration

全专业涵盖建筑、设备、管道、结构、电气仪表、防腐绝热、洁净工程、弱电工程等全部专业工程。

It covers all professional fields such as buildings, equipment, pipeline, structures, electrical instruments, corrosion prevention and heat insulation, clean rooms, and weak current engineering.

# 验证 调试 试生产

## VALIDATION COMMISSIONING AND TRIAL PRODUCTION

### 一次试车成功

Successful first-time test run

**验证:**验证中心人员均熟知国内外GMP验证相关法规及指南,基于科学和风险的C&Q流程图,可以在项目建设全生命周期内提供符合中国GMP/EMA/FDA/WHO等法规要求的验证服务。

**Validation:** The personnel of the validation center are familiar with the relevant regulations and guidelines of GMP validation at home and abroad, therefore, they can provide validation services in accordance with the requirements of Chinese GMP/EMA/FDA/WHO regulations during the whole life cycle of the project construction based on the scientific and risk-based C&Q flow chart.

**调试:**专业的调试技术中心,拥有资深电气技术顾问专家团队,善于在调试过程中发现和解决问题,配备先进完备的检测设备、规范化管理,为工程建设保驾护航。

**Commissioning:** Professional commissioning technology center, which is equipped with a senior electrical technical consultant expert team, is good at identifying and solving problems in the commissioning process. The full range of advanced testing equipment and standardized **management ensure project construction.**

**试生产:**工艺技术中心统筹有生产背景的技术专家成立系统试生产小组,全过程、全方位参与试生产工作,合理缩短试生产周期,确保一次试车成功,尽早实现项目达标投产。

**Trial production:** The process technology center coordinates the technical experts with a production background to set up a system trial production team to participate in the trial production work in the whole process and in an all-round way to reasonably shorten the trial production cycle and **ensure the success of a test run** to achieve the project to put into operation as soon as possible.





# 自动化与信息化工程

## AUTOMATION AND INFORMATIONIZE ENGINEERING

### 打造智慧工厂 实现智能制造

Automation Makes Smart Factory, Realize intelligent manufacturing.

天俱时自动化与信息化工程专注于医药、合成生物领域,掌握其生产过程中主要生产工艺及生产辅助过程的自动化核心技术,结合行业特点为客户提供满足工艺需求的从系统设计、集成开发、工程实施到项目管理的一站式个性化、定制化系统解决方案,助力企业打造数字化工厂。

TIANS automation and informationize engineering focuses on the pharmaceutical and synthetic biology field, grasps the automation core technology of its main production processes and auxiliary production processes in the production process, and provides customers with one-stop personalized and customized system solutions that meet the process needs from system design, integrated development, engineering implementation to project management in combination with the characteristics of the industry, so as to help enterprises build digital chemical plants.

#### 中国领先

#### 化学合成原料药、中间体自动化工程中国领先

China's leader of chemical synthetic API and intermediate automation project

#### 行业领先

#### 自动化工程合同规模制药行业领先

Automation engineering contract scale pharmaceutical industry leader

数字化咨询与设计 Digital Consulting and Design	工艺过程自动化 Process Automation	公用工程自动化 Utility Automation	工厂信息化 Factory Informationize	计算机化系统验证 Computerized System Validation
<ul style="list-style-type: none"> <li>■ 制药工厂建设初期/改造升级规划数字化蓝图和实施路线</li> </ul> <p>Digital blueprint and implementation route of initial construction/transformation and upgrading planning of pharmaceutical plant</p>	<ul style="list-style-type: none"> <li>■ 合成工艺过程自动化</li> <li>■ 安全仪表系统SIS</li> <li>■ 发酵工艺过程自动化</li> <li>■ 分离纯化过程自动化</li> <li>■ 生物制药、液体制剂自动化</li> </ul> <p>Separation and Purification Process Automation Safety Instrument System (SIS) Biopharmaceutical and Liquid Preparation Process Automation</p> <p>扫码观看演示动画 Identify code, watch the vedio</p>	<ul style="list-style-type: none"> <li>■ 空调自控BMS</li> <li>■ 环境监测EMS</li> <li>■ 弱电系统</li> <li>■ 能源管理系统</li> <li>.....</li> </ul> <p>Air Conditioning System BMS, Environmental Monitoring System EMS Weak current system Energy Management System</p> <p>扫码观看演示动画 Identify code, watch the vedio</p>	<ul style="list-style-type: none"> <li>■ 数据采集与监视控制系统SCADA</li> <li>■ 生产可视化管理平台BI</li> <li>■ 智能制造执行系统T-MES</li> </ul> <p>Supervisory Control and Data Acquisition(SCADA) Production visualization management platform BI Intelligent Manufacturing Execution System (T-MES)</p>	<ul style="list-style-type: none"> <li>■ GMP/FDA/EMA</li> <li>■ 遵从ISPE GAMP5</li> <li>V-Model</li> </ul> <p>GMP/FDA/EMA Comply ISPE GAMP5 V-Model</p>

# 环保技术与工程

## ENVIRONMENTAL PROTECTION TECHNOLOGY AND ENGINEERING

### 制药环保专家

Pharmaceutical Environmental Experts



11项

废水处理技术

Treatment of Waste water



4项

废气处理技术

Treatment of Waste gas



2项

危险废物处理技术

Treatment of Hazardous Waste

天俱时环保专注于提供工业企业环保、节能整体解决方案,深耕于工业污染综合治理、废水近零排放等领域。可根据不同标准或成分及需求,为全国上百家客户提供废水、废气的分质或综合处理及节能减排技术。

The environmental protection division of TIANS focuses on providing overall solutions for environmental protection and energy conservation of industrial enterprises, and is deeply engaged in the fields of comprehensive treatment of industrial pollution and near zero discharge of wastewater. According to different standards or compositions and needs, it can provide hundreds of customers nationwide with quality separation or comprehensive treatment of wastewater and waste gas, as well as energy-saving and emission reduction technologies.

#### 国内外产学研联盟

Domestic and Foreign Industry University Research Alliance

- ✓ 环境污染综合治理联合实验室
- ✓ 外国院士工作站
- ✓ 博士后创新实践基地
- .....

#### 硬件水平领先

Leading Hardware

- ✓ 技术研发实验室5000m<sup>2</sup>
- ✓ 产业化装备制造车间6000m<sup>2</sup>
- ✓ 国际先进的环保实验及监测设备近百台
- .....

#### 专家团队强大

Strong Expert Team

- ✓ 国内知名环保专家陈平博士引领
- ✓ 澳大利亚技术科学与工程院院士 Jimmy Yun博士指导
- ✓ 数十名国内外环保专家

#### 陈平实验室

Chen Ping Laboratory

陈平实验室是国内领先的工业环保技术开发及资源化利用实验室,以医药三废资源化利用技术开发与产业化成果转化为重点开展多项研究课题和产学研合作项目,致力于推动行业的技术革新和进步,实现社会的持续、高效发展。

Chen Ping laboratory is a leading laboratory for industrial environmental protection technology development and resource utilization in China. It focuses on the development and industrialization of the resource utilization technology of three medical wastes, and carries out a number of research topics and industry university research cooperation projects. It is committed to promoting the technological innovation and progress of the industry and realizing the sustainable and efficient development of society.

# 智能装备

## SMART EQUIPMENT

### 掌握核心科技 全球销量领先

Core Technology, Leading Sales

天俱时装备致力于为生物发酵企业提供可靠智能装备,为行业提供一站式解决方案。

公司掌握生物发酵、灭菌、节能环保等多项核心技术,拥有数十项节能型连续灭菌系统相关专利。建有5000m<sup>2</sup>研发实验室和6000m<sup>2</sup>高标准、自动化、设备齐全的先进装备制造中心,产品覆盖氨基酸、酶制剂、维生素、抗生素、生物制药、新材料等领域,远销国内外多个国家及地区,市场占有率稳居前列。

TIANS equipment is committed to providing reliable intelligent equipment for biological fermentation enterprises and providing one-stop solutions for the industry. It has mastered a number of core technologies such as biological fermentation, sterilization, energy conservation and environmental protection, and specializes in all-round services. The group has more than 10 patents related to energy-saving continuous sterilization system, and has built 5000 m<sup>2</sup> R & D laboratories and 6000 m<sup>2</sup> advanced equipment manufacturing centers with high standards, automation and complete equipment. The products cover amino acids, dicarboxylic acids, enzyme preparations, vitamins, antibiotics and other fields, and are exported to many countries and regions at home and abroad, with a stable market share in the forefront of the market.



无菌率  
Sterility Rate

99.99%



蒸汽节约  
Steam Saving

≥70%

冷却水节约  
Cooling Water Saving

≥90%



培养基破坏少  
运行稳定

Less destruction of  
culture medium and  
stable operation



操作简便

Easy to operate

集成化设计  
自动化控制

Integrated design  
Automatic control



智能瞬时连消机 / Intelligent Instantaneous Sterilizing Equipment

# 科技创新

## TECHNOLOGICAL INNOVATION

### 打造产学研用联盟 赋能行业发展

Create an industry-university-research-application alliance to promote the development of the industry

#### 天俱时科技论坛

TIANS Technology Forum

16 Consecutive Sessions  
连续举办16届

100+ Speakers  
演讲嘉宾

10000+ Participants  
参会人员

中国高科技行业高端技术交流平台,聚焦科技创新,服务行业发展,促进社会进步,加速科学技术和生产实践深度融合,助推企业转型升级和可持续发展。

The high-end technology exchange platform of China's high-tec industry focuses on scientific and technological innovation, serves the development of the industry, promotes social progress, accelerates the deep integration of science and technology and production practice, and promotes the transformation, upgrading and sustainable development of enterprises.

#### 天俱时科技委员会

TIANS Science and Technology Committee

2 Academicians at Home and Abroad  
国内外院士

24 External Industry Experts  
位外部行业专家

62 TIANS Technical Experts  
位天俱时技术专家

由生物、制药、环保、水处理等领域的国内外知名专家学者与天俱时集团优秀科技工作者组成,搭建产学研用交流互动平台、信息技术咨询平台和提供专业解决方案的服务平台,加速行业著名专家最新科研成果与企业科技精英丰富实践经验的融合。

It is composed of well-known experts and scholars at home and abroad in the fields of biology, pharmacy, environmental protection, water treatment and other fields, as well as the excellent scientific and technological workers of TIANS group. It builds an industry, university, research and application platform for interactive platform, information technology consulting platform and a service platform for providing professional solutions, to accelerates the integration of the latest scientific research achievements of famous experts in the industry and the rich practical experience of enterprise scientific and technological elites.



### 科技平台

Technology Platform

- 国家高新技术企业  
National High-Tech Enterprise
- 国家专精特新小巨人企业  
National-level Specialization, Special New Small Giant Enterprise
- 国家知识产权优势企业  
National Intellectual Property Advantage Enterprises
- 中国产学研合作创新示范企业  
China Industry-University-Research Cooperative Innovation Demonstration Enterprise
- 河北省企业技术中心  
Hebei Enterprise Technology Center
- 博士后创新实践基地  
Post Doctoral Innovation Practice Base
- 外国院士工作站  
Foreign Academician Workstation
- .....

### 专利

Patent

天俱时专利涉及工程设计、自动化、洁净工程、机电安装、废水治理等方面。

TIANS patents cover engineering design, automation, clean room engineering, electromechanical installation, wastewater treatment and other aspects.

# 151

授权专利  
authorized more than 141 patents

# 23

发明专利  
22 invention patents

# 31

软件著作权  
28 software copyrights



### 国内领先技术认定

Identification of Domestic Leading Technology

- 一种制药废水的分类处理与回用技术
- 臭氧催化氧化耦合高效生物膜深度处理制药废水集成技术
- 制药行业VOCs废气处理技术及装备
- 自由基氧化和生物氧化深度处理废水关键技术集成研究与应用
- .....

A classification treatment and reuse technology of pharmaceutical wastewater

Integrated technology of ozone catalytic oxidation coupled with high efficiency biofilm for advanced treatment of pharmaceutical wastewater

VOCs waste gas treatment technology and equipment in pharmaceutical industry

Integrated research and application of key technologies of free radical oxidation and biological oxidation for advanced wastewater treatment

.....

### 标准建设

Standard Construction

- 《洁净室及相关受控环境 第1部分:根据粒子浓度划分空气洁净等级》
- 《洁净室及相关受控环境 第2部分:用粒子浓度监测提供洁净室空气洁净度的证据》
- 《细胞制备洁净室运行规范》
- 《医药工业洁净厂房施工与验收标准》
- 《医药工业工程术语标准》
- .....

<Cleanrooms and associated controlled environments Part 1:Classification of air cleanliness by particle concentration>

<Cleanrooms and associated controlled environments Part 2:Monitoring to provide evidence of cleanroom performance related to air cleanliness by particle concentration>

<Cell preparation standard for cleanroom operation>

<Standard for construction and acceptance of pharmaceutical industry cleanroom>

<Terminology Standard for Pharmaceutical Engineering>

.....

### 产业联盟

Create An Alliance

- 制药智能制造产业联盟(PIMA)创始副会长单位
- 口服固体制剂产业联盟(OSIA)创始副会长单位

Founding vice president unit of Pharmaceutical Intelligent Manufacturing Industry Alliance (PIMA)

Founding vice president unit of Oral solid preparations Industry Alliance (OSIA)

# 科技人才

## SCIENTIFIC AND TECHNOLOGICAL TALENTS



**王京**  
Wang Jing

**国内知名化工医药专家  
天俱时集团首席科学家**

正高级工程师  
注册化工工程师  
国家科学技术奖评审专家

**Domestic Famous Chemical Pharmaceutical Expert  
Chief Scientist of TIAN S**

Senior Engineer  
Registered Chemical Engineer  
National Science and Technology Award Evaluation Expert



**武亚锋**  
Wu Yafeng

**国内知名工程设计专家  
天俱时集团首席咨询师**

研究员级高级工程师  
注册化工工程师  
全国优秀工程勘察设计大师

**Domestic Famous Engineering Design Expert  
Chief Consultant of TIAN S**

Senior Engineer At Research Level  
Registered Chemical Engineer  
National Excellent Engineering Survey and Design Master



**Christian Bachofen**

**国际知名生物医药设计规划专家  
天俱时集团生物医药首席技术官**

CB Consultancy AG创始人兼  
首席设计师

**International Famous Biopharmaceutical Design Planner  
Chief Technology Officer of Biopharmaceutical of TIAN S**

Founder and Chief Designer of CB Consultancy AG



**陈平**  
Champion Chen

**国内知名医药、化工产业化专家  
天俱时集团首席技术官**

正高级工程师  
国家环境保护制药废水污染控制  
工程技术中心委员会委员

**Domestic Famous Pharmaceutical and Chemical Industrialization  
Chief Technology Expert of TIAN S**

Senior Engineer  
Member of The Committee of National Engineering and  
Technology Center for Environmental Protection and  
Pharmaceutical Waste Water Pollution Control



**岳宗礼**  
Milo Yue

**国内知名自控技术专家  
天俱时集团自动化与信息化首席技术官**

高级工程师  
制药智能制造产业联盟创始副会长  
中国医药设备工程协会专家委员会委员

**Domestic Famous Automatic Control Technology Expert  
Chief Technology Officer of Automation and Informatiza-  
tion of TIAN S**

Senior Engineer  
Founding Vice President of Pharmaceutical Intelligent Manu-  
facturing Industry Alliance  
Member of the Expert Committee of China Medical Equipment  
Engineering Association



**Jimmy Yun**

**国际知名环保技术专家  
天俱时集团环保首席科学家**

澳大利亚技术科学与工程院院士  
新南威尔士大学客座教授  
河北省政府特殊津贴专家

**International Famous Expert In Environmental Protection  
Technology  
Chief Scientist of Environmental Protection of TIAN S**

Academician of Australian Institute of Technology and Engineering  
Visiting Professor in University of New South Wales  
Hebei Provincial Government Special Allowance Expert



**吴少华**  
Wesley Wu

**国内知名工程设计专家  
天俱时集团首席设计师**

注册化工、动力工程师  
中国医药教育协会制药技术专业委员会常务委员  
中国医药工程设计协会专家委员会专家

**Domestic Famous Engineering Design Expert  
Chief Designer of TIAN S**

Registered Chemical and Power Engineer  
Standing Member of Pharmaceutical Technology Committee  
of China Medical Education Association  
Expert of Expert Committee of China Pharmaceutical Engineering  
Design Association



**周兰霞**  
Linda Zhou

**国内知名工程设计专家**

正高级工程师  
注册化工、消防工程师  
国际制药项目管理协会中国区制药工程  
技术专家委员会副主任  
中国医药工程设计协会专家委员会专家

**Pharmaceutical and Chemical Process Design Expert**

Senior Engineer  
Registered Chemical and Fire Engineer  
Committee of International Pharmaceutical Project Management  
Association  
Expert of China Pharmaceutical Engineering Design Association



**李向科**  
Li Xiangke

**国内知名合成生物工程设计专家**

高级工程师  
注册化工工程师

**Domestic Famous Expert in Synthetic Bioengineering Design**

Senior Engineer  
Registered Chemical Engineer



**邢佳枫**  
Xing Jiafeng

**国内知名环保技术专家**

高级工程师  
中国化学制药工业协会环境保护专家  
工业环保网废水处理专家

**Domestic Famous Expert in Environmental Protection Technology**

Senior Engineer  
Environmental Protection Expert of China Chemical  
Pharmaceutical Industry Association  
Industrial Environmental Protection Network Wastewater  
Treatment Expert



**姚振永**  
Yao Zhenyong

**国内知名医药工艺专家**

正高级工程师  
注册化工工程师  
国际制药项目管理协会中国区制药  
工程技术专家委员会专家

**Domestic Famous Pharmaceutical Technology Expert**

Senior Engineer  
Registered Chemical Engineer  
Expert of China Pharmaceutical Engineering Technical Expert  
Committee of International Pharmaceutical Project Management  
Association



**薛龙**  
Xue Long

**国内知名精细化工工艺设计专家**

高级工程师  
注册安全工程师  
河北省建筑业优秀总工程师

**Domestic Famous Fine Chemical Process Design Expert**

Senior Engineer  
Registered Safety Engineer  
Excellent Chief Engineer of Hebei Construction Industry



**田林升**  
Tian Linsheng

**国内知名控制发酵染菌技术专家**

高级工程师  
中国生物发酵产业协会理事

**Expert in Controlling Fermentation & Contamination Technology**

Senior Engineer  
Director of China Biotech Fermentation Industry Association



# 典型案例

## CLASSIC CASES

**齐鲁制药集团有限公司**  
Qilu Pharmaceutical Group

蝉联全国医药工业百强榜前十

Won the Top Ten of the National Top 100 Pharmaceutical Enterprises

齐鲁制药是中国大型综合性现代制药企业，连续多年荣获中国医药工业百强企业TOP10榜、中国化学制药工业企业综合实力百强、中国医药工业最具投资价值等荣誉。从齐鲁大地到内蒙草原，天俱时已累计承建了齐鲁制药的工程设计、机电工程、自控工程及环保工程等数十个项目，其中多个项目荣获国家级、省级勘察设计类奖项。荣耀比肩、互相成就，未来我们愿继续携手，用科技表达我们的爱。

Qilu Pharmaceutical is a large comprehensive modern pharmaceutical enterprise in China. It is one of the top 10 of China's top 100 pharmaceutical enterprises, one of China's top 100 chemical pharmaceutical enterprises in comprehensive strength, and one of the enterprises with the most investment value in China's pharmaceutical industry for many consecutive years. From Shandong Province to Inner Mongolia, TIANS has undertaken dozens of projects of Qilu Pharmaceutical, including engineering design, electromechanical engineering, automatic control engineering and environmental protection engineering, many of which have won national and provincial level survey and design awards. Glory is equal to each other and mutual achievements. We both have won honors and achieved achievements. In the future, we are willing to continue to work together to express our love with technology.



齐鲁制药乐陵医药产业园机电工程PC项目 | 合成原料药  
Laoling Pharmaceutical Industrial Park electromechanical engineering PC project of Qilu pharmaceutical | Chemical synthetic API



齐鲁安替制药有限公司无菌车间扩建项目 | 无菌原料药  
Aseptic workshop expansion project of Qilu Antibiotics Pharmaceutical Co., Ltd. | Sterile API



齐鲁制药乐陵医药产业园废水治理T-EPC项目 | 合成原料药  
Qilu pharmaceutical Laoling pharmaceutical industrial park wastewater treatment T-EPC project | Synthetic API



齐鲁乐陵医药产业园二期自动化工程 | 合成原料药  
Phase II automation project of Laoling Pharmaceutical Industrial Park of Qilu Pharmaceutical | Synthetic API



齐鲁制药(内蒙古)有限公司阿维菌素发酵项目 | 抗生素  
Avermectin Fermentation Project of Qilu Pharmaceutical (Inner Mongolia) Co., Ltd. | Antibiotic





伊犁川宁生物技术有限公司二期EPC总承包项目  
Yili Chuanning Biotechnology Co., Ltd. Phase II EPC General Contracting Project

发酵原料药  
Fermentation APIs

## 科伦集团·伊犁川宁生物技术有限公司

KELUN Pharmaceutical · Yili Chuanning Biotechnology Co., Ltd.

### 全球最大抗生素中间体制造基地

The World's Largest Antibiotic Intermediate Manufacturing Base

川宁生物是中国医药工业百强企业之一的科伦集团的抗生素中间体项目的实施主体，占地1219亩，总投资超100亿元，年产硫氰酸红霉素3000吨、头孢系列中间体10000吨。自川宁生物基地投建起，天俱时与川宁生物连续合作十余年，是川宁生物项目的建设者、见证者和开创者。在环保项目中，**全球首次将分子筛技术应用于制药废气治理领域**；总承包项目荣获**中国安装工程优质奖(中国安装之星)**。未来我们将继续携手同行，推动医药科技的进步。

CHUANNING biology is the main body of the antibiotic intermediate project of Kelun group, one of the top 100 enterprises in China's pharmaceutical industry. It covers an area of 1219 mu, with a total investment of more than 10 billion yuan, and has an annual output of 3000 tons of erythromycin thiocyanate and 10000 tons of cephalosporin series intermediates. Since the establishment of CHUANNING biological base, TIANS has been cooperating with CHUANNING biology for more than ten years, and is the builder, witness and founder of CHUANNING biology project. In environmental protection projects, **molecular sieve technology is applied to the field of pharmaceutical waste gas treatment for the first time in the world**; The EPC project won the **China Installation Engineering Quality Award (China installation star)**. In the future, we will continue to work together to promote the progress of medical science and technology.



伊犁川宁生物技术有限公司二期废水治理EPC项目  
EPC project for second-phase waste water treatment of Yili Chuanning Biotechnology Co., Ltd.

发酵原料药  
Fermentation APIs



伊犁川宁生物技术有限公司二期发酵尾气治理EPC项目  
EPC project for second-phase fermentation wastegas treatment of Yili Chuanning Biotechnology Co., Ltd.

发酵原料药  
Fermentation APIs



## 天科(荆州)制药有限公司

Tianke (Jingzhou) Pharmaceutical Co., Ltd.

### 化学制药智能工厂优秀示范项目

Excellent Demonstration Project of Chemical Pharmaceutical Intelligent Factory

天科制药由天津药物研究院与荆州市楚诚投资有限公司合资成立。项目投资7.7亿元，占地面积235亩，主要生产医药原料药及国内外研发、生产合同定制产品CDMO、CMO(专利原料药)。项目定位于绿色工厂、智能工厂，标准为国家GMP、欧盟EDQM和美国FDA。天俱时集团作为该项目的总承包服务商，**荣获化学制药智能工厂最佳实践奖**。智造卓越，至臻完美。未来，我们将继续深化合作，共同探索更加绿色智能的制药工厂新未来。

Tianke Pharmaceutical is a joint venture between Tianjin Pharmaceutical Research Institute and Jingzhou Chucheng Investment Co., Ltd. The project has an investment of 770million yuan and covers an area of 235 mu. It mainly produces pharmaceutical APIs and contract products CDMO and CMO (patented APIs) at home and abroad. The project is positioned as a green and smart factory, and it conforms to the national GMP, and the standards of European Union EDQM and American FDA. As the general contractor of the project, **TIANKE won the best practice award of chemical pharmaceutical intelligent factory**. Wisdom makes excellence and perfection. In the future, we will continue to deepen cooperation and jointly explore a new future of more green and intelligent pharmaceutical factories.



天科(荆州)制药有限公司绿色制药产业基地自控项目  
Automatic control project of green pharmaceutical industry base of  
Tianke (Jingzhou) Pharmaceutical Co., Ltd.

合成原料药  
Synthetic API



天科(荆州)制药有限公司绿色制药产业基地EPC项目 | 高端特色原料药  
Green pharmaceutical industry base project (EPC) of Tianke (Jingzhou) Pharmaceutical Co., Ltd | High-end Characteristic API





江苏蓝素生物材料有限公司年产25000吨PHA产业化EPC项目  
EPC project of PHA industrialization (annual output of 25,000tons) of Jiangsu Lansu Biomaterials Co., Ltd.

生物降解新材料  
New Biodegradable Materials

## 蓝晶微生物·江苏蓝素生物材料有限公司

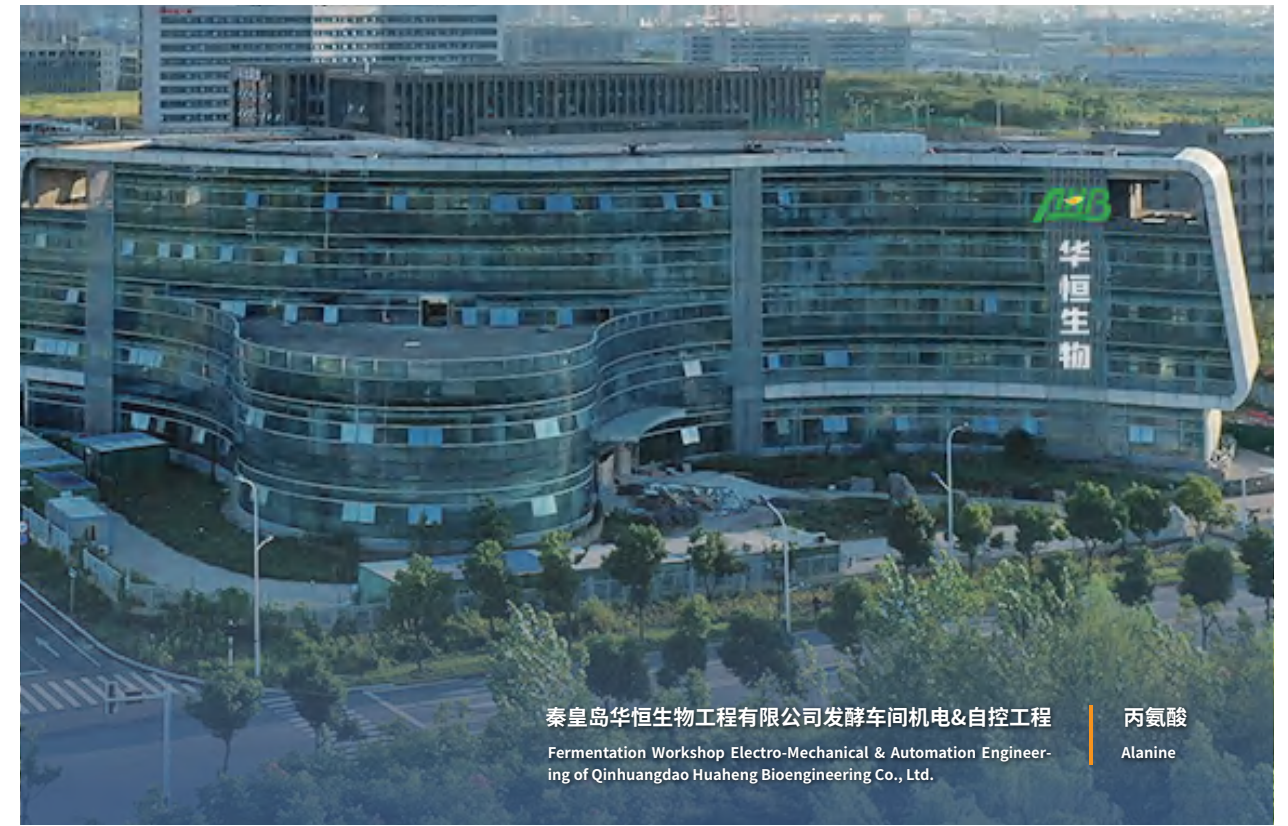
Jiangsu Lansu Biomaterials Co., Ltd.

### 合成生物学领导者

Leader in Synthetic Biology

蓝晶微生物是全球第三、中国第一家显著降低PHA成本达到可规模化销售水平的公司。其全资子公司江苏蓝素生物材料有限公司年产25000吨PHA产业化项目由天俱时集团总承包，占地130亩，总投资12.5亿元，计划PHA年产能25000吨。天俱时愿与蓝晶一起，共同为人类创造一个可持续的、活力四射的美好未来。

Bluepha is the third company in the world and the first company in China that has significantly reduced the cost of PHA and made the large-scale sale of PHA possible. Jiangsu Lansu Biomaterials Co., Ltd., a wholly-owned subsidiary of Bluephalt, launched the PHA industrialization project (annual output of 25,000 tons), which is undertaken by TIANS Group. It covers an area of 130 mu, with a total investment of 1.25 billion yuan. It is planned that the annual output of PHA could reach 25,000 tons. TIANS is willing to, together with Bluepha, create a sustainable and vibrant future for mankind.



秦皇岛华恒生物工程有限公司发酵车间机电&自控工程  
Fermentation Workshop Electro-Mechanical & Automation Engineering of Qinhuangdao Huaheng Bioengineering Co., Ltd.

丙氨酸  
Alanine

## 秦皇岛华恒生物工程有限公司

Qinhuangdao Huaheng Bioengineering Co., Ltd.

### 全球最大丙氨酸生产基地

Globally Recognized as the Largest Alanine Production Hub

华恒生物是一家以合成生物为核心的高新技术企业，主要产品包括氨基酸、维生素和生物基材料单体等，是全球最大的丙氨酸生产基地，其中发酵法生产的L-丙氨酸技术被中国科学院誉为“中国生物制造一个里程碑的创新”。秦皇岛华恒生物作为华恒生物全资子公司，天俱时集团为其发酵车间提供机电工程、自动化等专业服务。绿色为源，智慧为本，我们将共同让更低碳、可持续的合成生物产品惠及全人类。

Huaheng Bioengineering stands as a high-tech enterprise with synthetic biology as its linchpin. The company's flagship products include amino acids, vitamins, and bio-based material monomers. Holding the designation of being the global leader in Alanine production, its L-Alanine using fermentation process has garnered accolades from the Chinese Academy of Sciences, describing it as a "milestone in China's biomanufacturing evolution." As a wholly owned subsidiary of Huaheng Bioengineering, Qinhuangdao Huaheng Bioengineering was provided with specialized services in electro-mechanical engineering and automation for its fermentation sector by TIANS. Guided by our sustainability ethos and with innovation, collectively, we commit to delivering eco-friendlier, sustainable synthetic bio-products for the greater good of humankind.



### 中节能万润股份有限公司

Valiant Co., Ltd.

#### 中国精细化工百强前十

Top 10 of Top 100 Enterprises in Fine Chemical Engineering Industry in China

中节能万润股份有限公司在高端显示材料、高端沸石系列环保材料以及生命科学样品制备三个世界前沿领域处于行业前列。天俱时集团为万润股份提供全方位服务,包括工程设计、机电工程、自控工程、环保工程等专业领域。聚合智慧,创生无限,我们将用科技助力万润股份成为世界一流的节能环保健康产业集团。

Valiant Co., Ltd. is at the forefront in the three world frontier fields of high-end display materials, high-end zeolite series environmental materials and life science sample preparation. TIANS Group provides all-round services for Valiant, including engineering design, electromechanical engineering, automatic control engineering, environmental engineering and other fields. We will use science and technology to help Valiant become a world-class industrial group focusing on energy conservation, environmental protection and health care.



中节能万润股份有限公司万润工业园二期项目  
Phase II project of Valiant Industrial Park of Valiant Co., Ltd.

液晶材料&特殊化学品  
Liquid crystal materials&special chemicals

#### 中节能万润股份有限公司万润化工园区一期项目自动化工程 Automation engineering of phase I project of Valiant Industrial Park of Valiant Co., Ltd.

合成原料药  
Synthetic APIs



#### 中节能万润股份有限公司C10污水处理项目EPC总承包 EPC general contracting of C10 waste water treatment project of Valiant Co., Ltd.

环保新材料  
New environmental materials



## 江西富祥药业股份有限公司

Jiangxi Fushine Pharmaceutical Co.,Ltd.

### 国内中间体和原料药领军企业

Leading Intermediate and API Enterprise in China

富祥药业以特色抗菌原料药及其中间体的研发、生产及销售为主业，并积极布局新业态。天俱时集团与富祥药业展开全方位合作，提供了EPC、工程设计、自控工程、环保工程等数十项专业服务。新益求新，我们将一起携手，打造阳光未来。

Fushine Pharmaceutical takes the research, development, production and sales of characteristic antibacterial APIs and intermediates as its main business, and actively plans new business forms. TIANS group has carried out all-round cooperation with Fushine Pharmaceutical, providing dozens of professional services such as EPC, engineering design, automatic control engineering, environmental protection engineering, etc. Seeking innovation constantly, we will worktogether to create a sunny future.



景德镇富祥生命科技有限公司环保项目  
Environmental protection project of Jingdezhen Fushine Life Technology Co., Ltd.

VC&电解液添加剂  
VC & electrolyte additive



江西祥太生命科学有限公司生产一、二车间自动化工程  
Automation Engineering of No.1 and No.2 Workshops for Jiangxi Shtec Bioscience Co., Ltd.

合成原料药  
Synthetic API



景德镇富祥生命科技有限公司VC和FEC总承包项目  
VC and FEC general contracting project of Jingdezhen Fushine Life Technology Co., Ltd

VC&电解液添加剂  
VC & electrolyte additive



尚赛(黄冈)新型光电材料有机半导体生产基地项目  
Sunshine (Huanggang) New Photoelectric Material Organic Semiconductor Production Base Project

新型光电有机半导体材料  
New Photoelectric Organic Semiconductor Materials

## 武汉尚赛光电科技有限公司

Wuhan Sunshine Optoelectronic Technology Co., Ltd.

### 全球专业新型OLED材料供应商

Global Professional New OLED Material Supplier

武汉尚赛光电科技有限公司专注为新型显示及半导体产业链提供关键有机电子材料和相关配套服务，其自主研发的先进功能材料性能领先，是国内头部面板企业核心供应商。尚赛(黄冈)新型光电有机半导体材料产业化项目，用地110亩，总投资3亿，规划建设5栋生产车间，天俱时集团为其提供机电工程总承包服务。行之千里，日日自新，未来我们将助力尚赛光电构建更有竞争力的产业格局，力争成为全球领先的显示材料核心供应商。

Wuhan Sunshine Optoelectronic Technology Co., Ltd., which focuses on providing key organic electronic materials and related supporting services for new display and semiconductor industry chain, is a core supplier for domestic head panel enterprises with its self-developed advanced functional materials with leading performance. TIANS Group provides general contracting services for electromechanical engineering to Sunshine (Huanggang) new photoelectric organic semiconductor material industrialization project which has 110 acres of land, with a total investment of 300 million and 5 production workshops planned to be constructed. We will help Sunshine Optoelectronic to build a more competitive industrial pattern to become a global leading core supplier of display materials.





成都微芯药业有限公司创新药生产基地一、二、三期项目  
Phase I, phase II and phase III project of innovative medicine production base of Chengdu Chipscreen Pharmaceutical Co., Ltd.

创新原料药+制剂  
Innovative API + Preparation

**成都微芯药业有限公司**  
Chengdu Chipscreen Pharmaceutical Co., Ltd.

**国内最早实践First-in-class模式的创新药企**

成都微芯药业是微芯生物——“中国原创新药领域的先行者”的全资子公司，项目占地100亩，分三期建设符合美国、欧盟和中国GMP标准的小分子原创化学新药生产基地（一、二期）以及大分子类创新药中试基地（三期）。一、二、三期项目均由天俱时集团承建，并荣获**2020年度示范洁净工程表彰项目**。恒者行远，思者常新，我们将始终用科技守护健康。

The First Innovative Pharmaceutical Enterprise in China to Practice the First in Class Model

Chengdu Chipscreen Pharmaceutical Co., Ltd is a wholly-owned subsidiary of Chipscreen Biosciences, a pioneer in the field of innovative new drugs in China. The project covers an area of 100 mu and is divided into three phases. The company plans to a small molecule innovative chemical new drug production base (phase I and II) and a large molecule innovative drug pilot test base (phase III) that meet the GMP standards of the United States, the European Union and China. The first, second and third phases of the project were undertaken by TIANS group, and **won the honor of 2020 Demonstration Clean Engineering Project**. We will always protect our health with science and technology.





## 海正药业(杭州)有限公司

Hisun Pharmaceutical (Hangzhou) Co., Ltd.

### 中国领先的原料药生产企业

China's Leading API Manufacturer

海正药业是一家集研产销全价值链、原料药与制剂一体化、多地域发展的综合性制药企业,是全国最大的抗生素、抗肿瘤药物生产基地之一,多次入选中国医药工业百强企业榜单。富阳厂区占地1400多亩,总投资约120亿元。天俱时集团为海正药业提供了数个工程设计、洁净工程、机电工程、环保工程等专业服务,设计项目荣获**优秀工程勘察设计项目成果一等奖**。执着创新,勇于突破,未来,我们将继续携手成就健康长寿梦想。

Hisun Pharmaceutical is a comprehensive pharmaceutical enterprise integrating research, production and marketing, the integration of APIs and preparations, and multi regional development. It is one of the largest antibiotic and antitumor drug production bases in China, and has been selected into the list of top 100 enterprises in China's pharmaceutical industry for many times. Fuyang plant covers an area of more than 1400 mu, with a total investment of about 12billion yuan. TIANS Group has provided Hisun Pharmaceutical with several professional services such as engineering design, cleaning engineering, electromechanical engineering, environmental protection engineering, and the design project has **won the First Prize of Excellent Engineering Survey and Design Project Achievements**. Persevering in innovation and having the courage to make breakthroughs, we will continue to work together to achieve the dream of health and longevity in the future.



海正药业(杭州)有限公司富阳基地设计+安装工程  
Hisun Pharmaceutical (Hangzhou) Co., Ltd Fuyang base design + installation project

高端制剂  
High-end Preparations

### 浙江海正药业股份有限公司发酵废气处理EPC总承包项目

EPC project of fermentation waste gas treatment of Zhejiang Hisun Pharmaceutical Co., Ltd.

#### 发酵原料药

Fermentation API







康龙化成(绍兴)药业有限公司年产47吨医药中间体机电安装工程总承包  
General contracting of mechanical and electrical installation project of pharmaceutical intermediates with an annual output of 47 tons of Pharmaron (Shaoxing) Pharmaceutical Co.,Ltd.

高端原料药  
CDMO APIs



黄冈人福医药国际高端新型特色原料药产业化生产基地项目  
International Advanced Special APIs Production Base of Huanggang Humanwell Healthcare

高端新型特色原料药  
Advanced Novel Special APIs

## 康龙化成(绍兴)药业有限公司

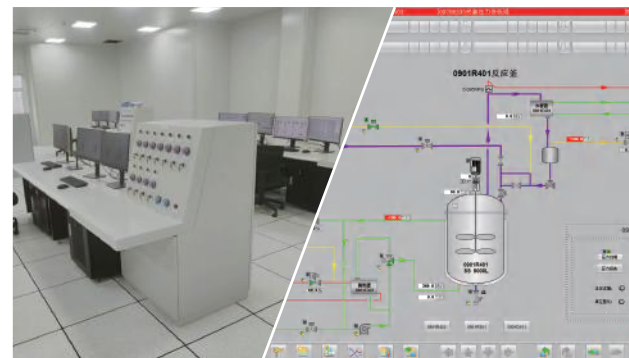
Pharmaron (Shaoxing) Pharmaceutical Co.,Ltd.

### 药物发现领域全球前三的商业化企业

The World's Top Three Commercial Enterprises in Drug Discovery

康龙化成是国际领先的生命科学研究服务企业,为包括小分子、大分子和细胞与基因治疗药物在内的多疗法药物研发打造了一个贯穿药物发现,临床前及临床开发全流程的研发生产服务体系。天俱时集团为康龙化成提供机电工程、自动化等专业服务。探索未知,价值赋能,我们愿一起为人类健康贡献智慧。

Pharmaron is an international leading life science R & D service enterprise, which has created a R & D and production service system throughout the whole process of drug discovery, preclinical and clinical development for the research and development of multi therapeutic drugs, including small molecules, macromolecules, cells and gene therapy drugs. TIANS Group provides professional services such as electromechanical engineering and automation for Pharmaron. Exploring the unknown and value empowering, we are willing to contribute wisdom to human health together.



### 康龙化成(绍兴)药业有限公司年产47吨医药中间体 高端创新原料药多功能车间自动化项目

Pharmaron (Shaoxing) Pharmaceutical Co., Ltd. annual output of 47 tons of pharmaceutical intermediates, high-end innovative API multi-function workshop automation project

### 高端创新合成原料药

High end innovative synthetic API

## 人福医药集团股份有限公司

Humanwell Healthcare (Group) Co., Ltd.

### 中国医药工业30强

Top 30 Pharmaceutical Industry in China

人福医药集团股份有限公司坚持做医药领域“细分市场领导者”的战略,在神经系统用药、甾体激素类药物、维吾尔民族药等细分领域占据领导或领先地位,并积极培育生物制品、基因工程药等业务的竞争力。天俱时集团与黄冈、宜昌人福在机电工程、洁净工程、自动化与信息化工程等方面展开全方面合作,全面助力人福医药成为卓越的医药健康产品及服务供应商。

Humanwell Healthcare (Group) Co., Ltd. positions itself as a "niche market frontrunner" in the pharmaceutical sector. With a stronghold in specific areas such as neurosystem drugs, steroid hormones, and Uyghur traditional medicines, Humanwell continuously enhances its stance in bioproducts and genetic engineering medicines. TIANS has formed a robust partnership with Huanggang Humanwell and Yichang Humanwell, covering areas like electromechanical engineering, cleanroom construction, automation, and information engineering, they envision turning Humanwell Healthcare into a top-tier pharmaceutical health products and services provider.





正大天晴·普润生物研发制造项目  
Chia Tai-Tianqing · Purun Bio R&D  
Manufacturing Initiative

原料药、中间体  
APIs and  
Intermediates

## 正大天晴药业集团股份有限公司

Chia Tai-Tianqing Pharmaceutical Holdings Co., Ltd.

### 中国抗肿瘤、肝病领域知名企业

China's Esteemed Player in Oncology and Liver Disease Solutions

正大天晴药业集团是一家从事医药创新和高品质药品的研发、生产与销售创新型医药集团，是国内知名的抗肿瘤、肝病药物研发和生产基地，位列2021年度中国医药工业百强企业榜第15位。天俱时集团先后为正大天晴连云港、江苏普润项目提供工程咨询与设计、机电工程、洁净工程等专业服务。以创新为载体，以科技为动力，我们将与正大天晴一同竭力为患者提供更佳的健康解决方案和优质可负担的医药资源。

Chia Tai-Tianqing is a trailblazer, dedicated to innovating, producing, and distributing top-tier medicines. As a distinguished hub for cancer and liver disease research and manufacturing in China, Chia Tai-Tianqing clinched the 15th spot on China's Top 100 Pharmaceutical Industries in 2021. TIANS has been a consistent partner, offering tailored services like engineering consultation, electromechanical solutions, and cleanroom setups for Chia Tai-Tianqing's endeavors in Lianyungang and Jiangsu Purun. Driven by innovation and empowered by technology, we stand side by side with Chia Tai-Tianqing, relentlessly working to present patients with advanced health alternatives and affordable pharma resources.



正大天晴高端综合制剂车间净化机电项目  
Chia Tai-Tianqing Advanced Formulation Workshop Electromechanical and Purification Project

抗癌创新药  
Novel Anti-cancer Medications

## 江苏诺泰澳赛诺生物制药股份有限公司

Sinopep Allsino Bio Pharmaceutical Co., Ltd.

### 国内多肽药物领域知名企业

Domestic Well-known Enterprise in the Field of Polypeptide Drugs

江苏诺泰澳赛诺生物制药股份有限公司是一家聚焦多肽药物及小分子化药，进行自主研发与定制研发相结合的生物医药企业。致力于通过技术创新，解决药品研发及生产过程中的技术瓶颈、优化工艺路径，构建从高级医药中间体、原料药到制剂的全产业链。天俱时为其提供专业的工程设计服务。破旧立新，更进一步，我们会依靠自身国际化的设计理念始终助力诺泰澳赛诺为全球市场提供优质、高效、绿色、低成本的医药产品和服务。

Sinopep Allsino Bio Pharmaceutical Co., Ltd. is a biopharmaceutical enterprise that focuses on polypeptide drugs and small molecule drugs, combining independent research and development with customized research and development. The company is committed to solving technical bottlenecks in drug research and development as well as production processes through technological innovation, optimizing process paths, and building the whole industry chain from advanced pharmaceutical intermediates, APIs to preparations. TIANS provides the company with professional engineering design services. With our international design concept, we will always help Sinopep Allsino to provide high-quality, efficient, green, low-cost pharmaceutical products and services for the global market.



原料药制造与绿色生产提升、寡核苷酸单体产业化生产、拟建项目工程设计及新增污水处理站设计项目  
API manufacturing and green production promotion, oligonucleotide monomer industrialization production, proposed project engineering design, and new sewage treatment station design project

多肽药物及小分子化药  
Polypeptide Drugs and Small Molecule Drugs





**广州百济神州生物制药有限公司1PQ实验室扩建项目机电安装工程**  
Mechanical and electrical installation works of 1PQ laboratory expansion project of Guangzhou BeiGene Biopharmaceutical Co., Ltd.

**大分子单克隆抗体类抗癌药**  
Macromolecular monoclonal antibody anticancer drugs

**广州百济神州生物制药有限公司三期 & 四期项目  
BMS&EMS系统**

BMS&EMS system in workshop III & IV project of Guangzhou BeiGene Biopharmaceutical Co., Ltd.

生物药  
Biopharmaceutical



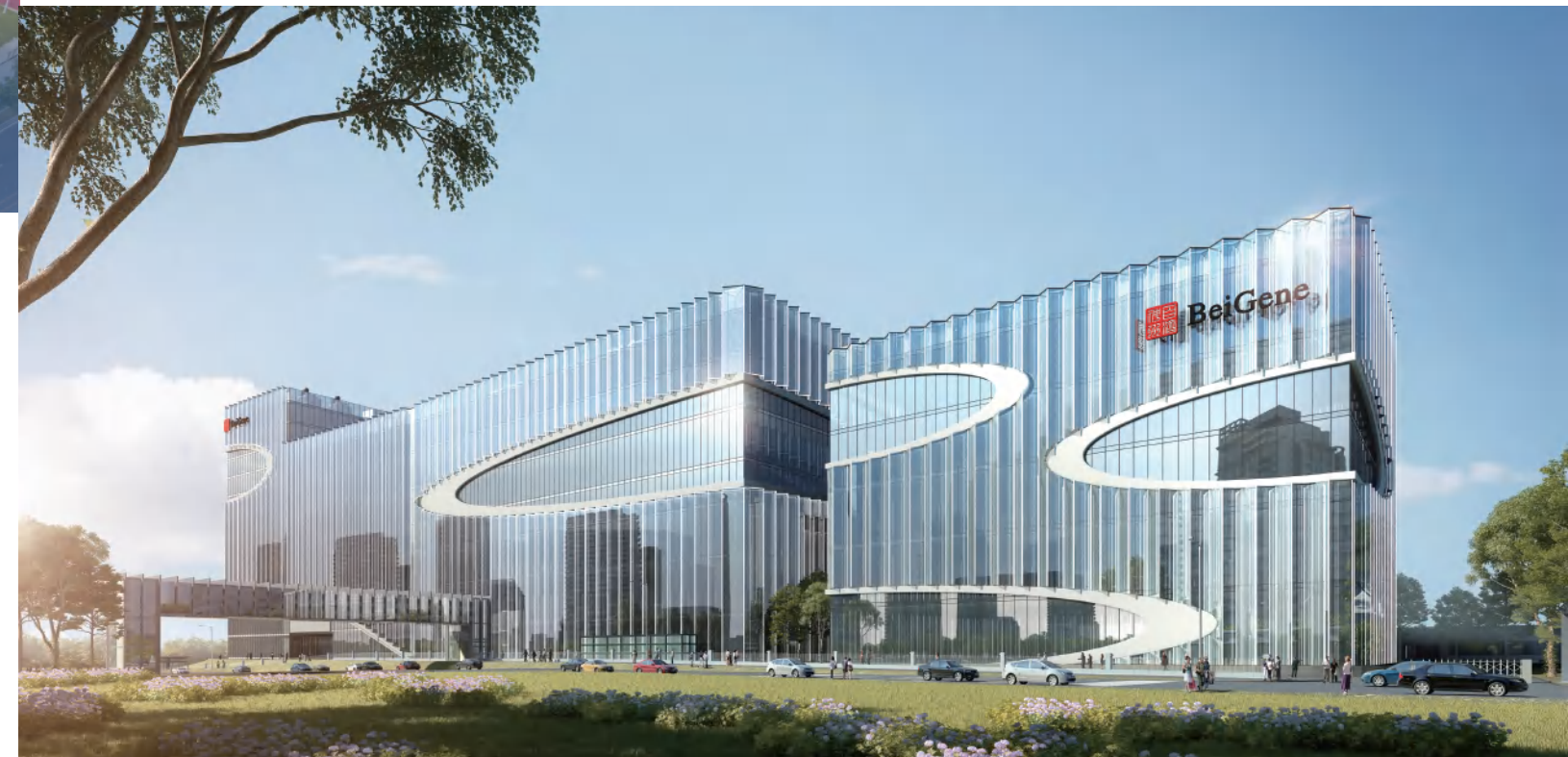
**广州百济神州生物制药有限公司**  
Guangzhou BeiGene Biopharmaceutical Co., Ltd.

全球首家“A+H+N”三地上市的生物医药企业

The World's First Biopharmaceutical Enterprise Listed in 'A+H+N' Three Stock Exchanges

百济神州是一家全球性的、商业阶段的、以研发为基础的生物科技公司,专注于分子靶向和免疫肿瘤疗法的研发,处于中国生物医药企业TOP10。天俱时集团与百济神州在咨询设计、自动化、洁净工程等方面开展了合作。塑造价值,共赴星辰,我们将一起为业界创造又一个生物医药项目的卓越案例。

BeiGene Biopharmaceutical is a global, commercial and R & D-based biotechnology company, focusing on the research and development of molecular targeting and immune tumor therapy. It is in the top10 of Chinese Biomedical enterprises. TIAN'S Group and BeiGene Biopharmaceutical have carried out cooperation in consulting design, automation, cleaning engineering, etc. We are committed to creating value and embracing a brighter future along with BeiGene. Together, we will create another outstanding case of biomedical projects for the industry.



**广州百济神州生物制药有限公司ADC及DS4生产车间机电安装及洁净装修工程**  
ADC and DS4 production workshop mechanical and electrical installation and clean decoration works of Guangzhou BeiGene Biopharmaceutical Co., Ltd.

抗体偶联药物  
Antibody-drug Conjugate





坪山工厂新建预灌充制剂线项目EPC工程总承包  
EPC General Contracting for the New Prefilled Syringe Production Line at Pingshan Factory

无菌制剂  
Sterile Formulations



北京诺诚健华药物研发平台升级项目净化机电安装工程  
Research and development platform upgrading project (purification electromechanical installation engineering) of Beijing InnoCare Pharma Limited

抗癌药物  
Anticancer drugs

## 深圳市海普瑞药业集团股份有限公司

Shenzhen Hepalink Pharmaceutical Group Co., Ltd.

### 国内肝素领域影响力前五

Top 5 in China's Domestic Heparin Market

海普瑞药业是拥有A+H双融资平台的领先跨国制药企业，主要业务覆盖肝素全产业链、生物大分子CDMO和创新药物的投资、开发及商业化，是目前中国少有的在肝素全产业链各环节均完成跨国闭环布局的生物医药企业。天俱时集团承建海普瑞坪山工厂新建制剂线EPC项目，涵盖制剂生产线及配套的仓储、检验、信息化等系统。科技为本，共启新程，我们将助力海普瑞生产更多高质量的安全有效药物，护佑健康。

Hepalink Pharmaceutical stands as a premier multinational pharma entity, boasting both A+H financing channels. The core operations span the complete heparin industry chain, biomacromolecule CDMO, and the full cycle of innovative drug investment, development, and commercialization. Hepalink is a rare pharmaceutical company in China that has successfully established a closed-loop, cross-border layout across all segments of the heparin industry chain. TIANS spearheads the EPC initiative for Hepalink's new prefilled syringe in Pingshan, overseeing production, supporting warehousing, quality checks, and information engineering. United by innovation and a shared future vision, we're driven to bolster Hepalink's mission of delivering broader, safer, and more impactful health solutions.

## 北京诺诚健华医药科技有限公司

Beijing InnoCare Pharmaceutical Technology Co., Ltd.

### 血液瘤领域的潜在巨头

Potential Giant in the Field of Hematoma

诺诚健华是一家拥有一体化生物医药平台的领先生物医药公司，致力于发现，开发用于治疗癌症和自身免疫性疾病的同类最佳或同类首创药物，并最终实现商业化。天俱时集团承建北京诺诚健华药物研发平台升级项目净化机电安装工程。科学驱动创新，我们将为改善公众健康而努力。

InnoCare is a leading biopharmaceutical company with an integrated biopharmaceutical platform. It is committed to discovering, developing and finally commercializing the best or first-of-a-kind drugs for the treatment of cancer and autoimmune diseases. TIANS group undertook the purification electromechanical installation project of Beijing InnoCare pharmaceutical R & D platform upgrading project. Science drives innovation, and we will work hard to improve public health.





上海君实生物工程有限公司临港基地中试车间新建项目  
Project of new pilot plant of Lingang Manufacturing Base of Shanghai Top Alliance Biosciences Co., Ltd.

单克隆抗体  
Monoclonal Antibody



苏州君盟生物医药科技有限公司创新性治疗用单克隆抗体产业化项目  
Innovative therapeutic monoclonal antibody industrialization project of Suzhou Top Alliance Biomedical Technology Co., Ltd.

单克隆抗体  
Monoclonal Antibody

## 上海君实生物工程有限公司

Shanghai Top Alliance Biosciences CO., LTD.

### 中国首家获得PD-1单克隆抗体NMPA上市批准

君实生物是一家创新驱动型生物制药公司，处于中国生物医药企业TOP10，致力于创新药物的发现和开发。天俱时集团为其临港中试车间及苏州产业化项目提供设计、机电安装、自动化等专业服务。未来已至，创新为先，我们将携手为生物医药行业交出满意答卷。

China's First PD-1 Monoclonal Antibody Approved by NMPA

Top Alliance Biosciences is an innovation driven biopharmaceutical company, one of China's Top 10 Biopharmaceutical Enterprises, committed to the discovery and development of innovative drugs. TIANS Group provides design, mechanical and electrical installation, automation and other professional services for its pilot plant in Lingang Base and Suzhou industrialization. We will take innovation as our priority and work together with Top Alliance to deliver a satisfactory answer for the biomedical industry.



上海君实生物工程有限公司临港基地中试车间新建项目自控工程  
Automatic control engineering of newly built pilot plant in Lingang Base of Shanghai Top Alliance Biosciences Co., Ltd.

单克隆抗体  
Monoclonal Antibody



# 合作伙伴 CUSTOMERS

**超 越 客 户 预 期**  
EXCEED CLIENT EXPECTATIONS

The image displays a grid of 140 logos for various pharmaceutical and biotechnology companies. The logos are arranged in a grid that is roughly 7 rows by 20 columns, with some cells containing grey squares. The central text '超越客户预期' (Exceed Client Expectations) is prominently displayed in the middle of the grid. The logos include:

- 齐鲁制药 (QILU PHARMACEUTICAL)
- 科伦集团 (KOLON GROUP)
- FOSUN PHARMA (复星医药)
- 正大天晴 (ZHENGDA TIANQING)
- 人福医药 (HUMANWELL HEALTHCARE)
- BeiGene
- Hepalink
- 君实生物 (TOPALLIANCE)
- Pharma (药明生物)
- 药明康德 (WUXI APPTEC)
- 康希诺生物 (CANSINO BIO)
- 乐普生物 (LEPU BIOTECH)
- Fushine (富祥药业)
- INNOCARE (诺诚建华)
- 中国医药集团 (SINO PHARMACEUTICAL GROUP)
- 天科 (湖州) 制药有限公司 (TIANKE (HANGZHOU) PHARMACEUTICAL CO., LTD.)
- HISUN (海正药业)
- NHU (新和成)
- 信立泰 (SALUBRIS)
- 新兴际华集团 (XINXING JI HUA INTERNATIONAL GROUP)
- 天地药业 (TIAN DI PHARMACEUTICAL)
- SPH (上海医药)
- 杭州多禧生物科技有限公司 (HANGZHOU DUOXI BIOTECHNOLOGY CO., LTD.)
- CHEERLAND (三生制药)
- StemRNA
- 金斯瑞 (运勃生物)
- GT (百季)
- CSPC (石药集团)
- 以岭药业 (YILING PHARMACEUTICAL)
- 石家庄四药集团 (SIZHOU PHARMACEUTICAL GROUP)
- WY (武药)
- 白云山 (BAYUNSHAN)
- 丽珠医药 (LIZHOU PHARMACEUTICAL)
- 联邦制药 (FEDERAL LABORATORIES)
- CHANGJIE TECH (中因科技)
- 上海联合贝尔生物工程股份有限公司 (Shanghai United Cell Bioengineering Co., Ltd.)
- JOINN Biologics
- ABA CHEM (雅本化学)
- 恒润达生 (HIRAN BIOTECHNOLOGY)
- Mabwell
- OBiO (和元上海)
- APELOA 普洛 (APELOA PHARMACEUTICAL)
- 华北制药 (NORTH CHINA PHARMACEUTICAL)
- 四川方向药业 (SICHUAN XIANGFANG PHARMACEUTICAL)
- 鲁抗 (LUKANG)
- 福元 (FUYUAN)
- 威远生化 (WEIYUAN BIOWHOLE)
- 博华制药 (BOHUA PHARMACEUTICAL)
- 康龙化成 (PHARMARON)
- 五和博澳 (WUHE BOAO)
- 微芯生物 (CHIPSCREEN)
- Pfizer
- YOU CARE
- OPM (奥浦迈)
- jinbo (瑞波)
- Acebright (创诺医药集团)
- 东阳光药 (DONGYANG GUANGYAO)
- BIOK (百奥科)
- 倍特药业 (BEITE PHARMACEUTICAL)
- 立国制药 (LIGUO PHARMACEUTICAL)
- 弘达集团 (HONGDA GROUP)
- 常州康普药业有限公司 (CHANGZHOU KANGPU PHARMACEUTICAL CO., LTD.)
- 金济药业 (JINJI PHARMA)
- BrightGene (百泰生物)
- WATSON (华拓医药)
- 白敬宇制药 (BAIJIANG PHARMACEUTICAL)
- Angel 安琪 (ANGEL BIOTECH)
- VEGAN INTERNATIONAL
- 齐晖 (QI HUI)
- Bluepha (蓝微生物)
- AHB (安海生物)
- VALIANT (中广核医药有限公司)
- 武汉尚源光电科技有限公司 (WUHAN SHANGYUAN OPTOELECTRONIC TECHNOLOGY CO., LTD.)
- 常山药业 (CHANGSHAN PHARMACEUTICAL)
- 浙江东盈药业有限公司 (Zhejiang Dongying Pharmaceutical Co., Ltd.)
- SINOPEP (诺泰生物)
- 星湖科技 (STARLAKE)
- 星昊医药 (XINGHAO PHARMACEUTICAL)
- WEGO 威高 (WEGO)
- 皖北药业 (WANBEI PHARM)
- 蔚蓝生物 (VIANO)
- EPPEN 伊品 (EPPEN)
- CATHAY (凯悦医药)