



金通灵科技集团股份有限公司
Jintongling Technology Group Co.,Ltd

Energy In Future



金通灵科技集团股份有限公司
Jintongling Technology Group Co.,Ltd

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绿 · 动 · 新 · 能 · 源



企业简介

COMPANY PROFILE

金通灵科技集团成立于1993年，位于江苏省南通市，2010年6月在深交所上市（股票代码300091），2019年成为南通产业控股集团控股子公司，现注册资本14.89亿元。公司是国家高新技术企业、中国机械工业协会风机分会副理事长单位、江苏省专精特新小巨人企业。公司秉承科技兴企、制造兴国的理念，专注于流体机械领域，以工业鼓风机、离心空气压缩机、小型高效汽轮机、新能源高效锅炉等高端装备制造为核心，构建延伸氢能、储能等产业布局，积极推动工业园双降低碳、智慧储能（储冷、储热）站、生物质气化综合利用、风系统节能改造、高压空气站等新能源、智慧能源、节能与环保领域的绿色低碳系统集成建设和运营服务。

Jintongling Technology Group Co., Ltd (JTL TECH) was founded in 1993, located in Nantong City, Jiangsu Province, listed on the Shenzhen Stock Exchange in June 2010 (stock code 300091), and became a holding subsidiary of Nantong Industrial holding Group in 2019, with a registered capital of 1.489 billion yuan. JTL TECH is a national high-tech enterprise, the vice chairman of the fan branch of China Machinery Industry Association, and the specialized and innovative little giant enterprise in Jiangsu Province.

JTL TECH focuses on high-end fluid machinery equipment manufacturing, including industrial blowers, centrifugal air compressors, small high-efficiency steam turbines, industrial boilers and other high-efficiency equipments, builds and extends the industrial layout of hydrogen energy and energy storage.

JTL TECH actively promote the green and low-carbon system integration construction and operation services in the fields of new energy, intelligent energy, energy conservation and environmental protection such as industrial park dual carbon reduction, intelligent energy storage (cold storage and heat storage) stations, comprehensive utilization of biomass gasification, wind system retrofit and high-pressure air stations, etc.

公司定位高端装备研发制造，目标成为全球高端设备供应商。

公司致力于提供新能源、智慧能源、风系统节能改造、环保等技术服务及设备成套系统解决方案，成为全球系统集成运营及服务商。

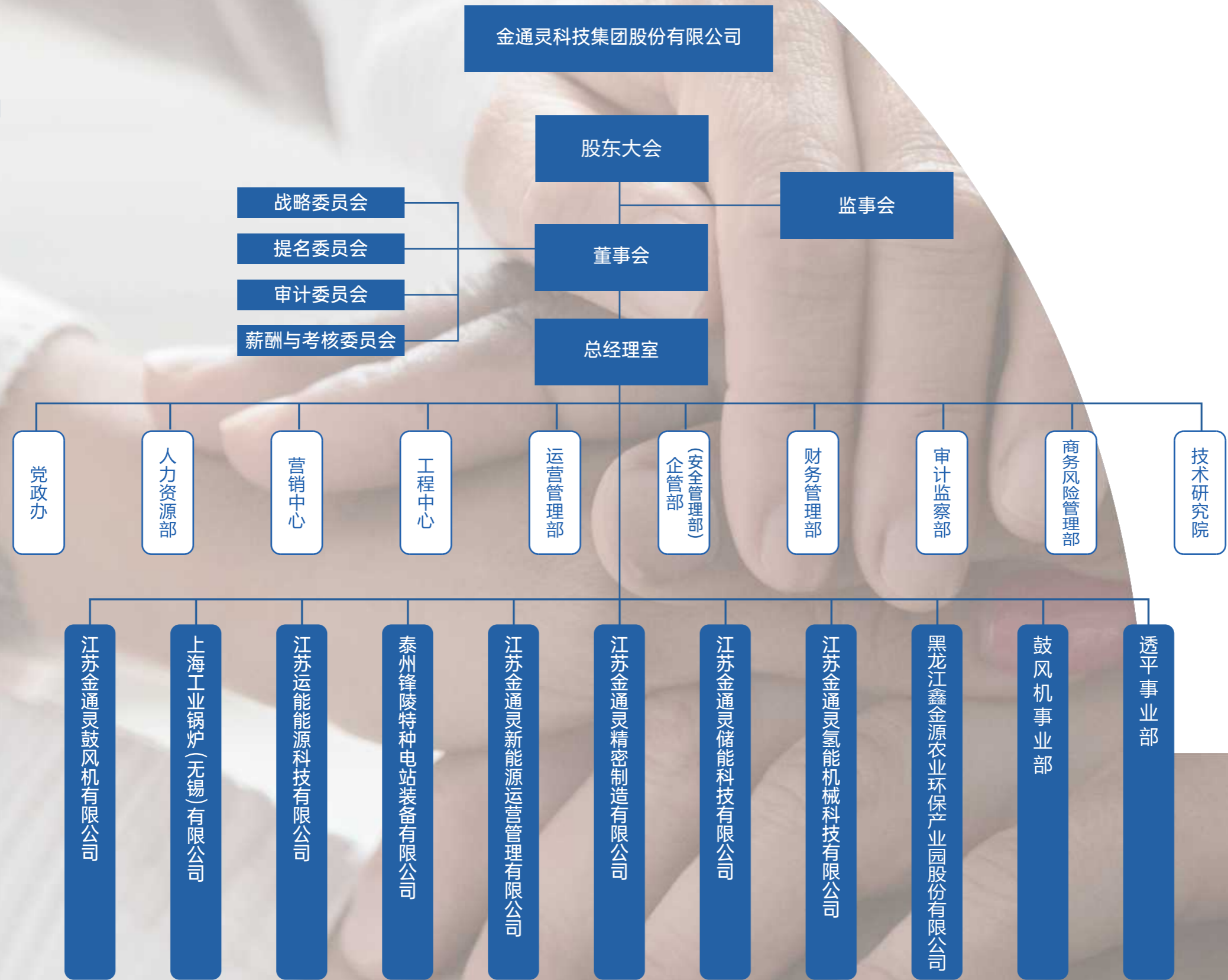
公司不断开拓海外市场，构建全球营销网络，主营产品出口至全球多个国家和地区。

JTL TECH is positioned as an R&D manufacturer of high-end equipment, aiming to become a global supplier of high-end equipment.

JTL TECH is committed to providing new energy, intelligent energy, wind system retrofit, environmental protection and other technical services and equipment sets of system solutions, to become a global system integration operations and service providers.

JTL TECH continues to develop overseas markets, building a global marketing network, the main products are exported to many countries and regions around the world.

组织架构
ORGANIZATION



● 科技创新
TECHNOLOGY INNOVATION

实用新型专利60余项
Utility model patents



发明专利20余项
Patents for invention



高新技术产品认定证书若干项
High-tech product certifications



加工装备

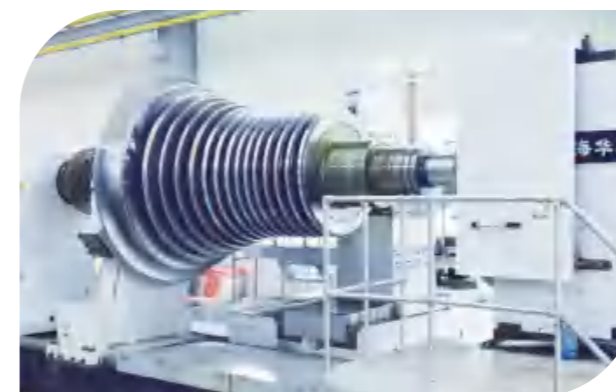
MANUFACTURING FACILITIES



◆ HERMLE五轴加工中心
HERMLE five-axis machining center



◆ NILES磨齿机
NILES Gear Grinding Machine



◆ 数控重型车床
CNC heavy lathe



◆ WFL车铣复合中心
WFL turning and milling center



◆ 数控龙门镗铣床
CNC gantry boring and milling machine



◆ ALZMETALL 五轴加工中心
ALZMETALL five-axis machining center



◆ KEHREN 磨床
KEHREN grinder



◆ 数控车床
CNC lathe



◆ STARRAG 五轴透平叶片镗铣加工中心
STARRAG five-axis boring-milling center for turbine blades



◆ STUDER数控外圆磨床
STUDER CNC cylindrical grinder



◆ 数控立式车床
CNC vertical lathe



◆ NODI旋压机
NODI spinning machine

检测装备

TESTING EQUIPMENT



◆ ZEISS 三坐标测量仪
ZEISS three coordinate measuring machine



◆ WENZELL 三坐标测量仪
WENZELL three coordinate measuring instrument



◆ 机械拉伸试验机
Mechanical tensile testing machine



◆ 金相电子显微镜
Metallographic electron microscope



◆ KLINGELNBERG 齿轮测量仪
KLINGELNBERG gear measuring instrument



◆ SCHENCK 超速实验台
SCHENCK overspeed test platform



◆ 地坑式超速试验台
Pit type overspeed test bench



◆ 压缩机试验平台
Compressor test platform



◆ SCHENCK 高速动平衡机
SCHENCK high-speed dynamic balancing machine



◆ 光栅测长机
Grating length measuring machine



◆ 汽轮机转子热跑试验机
Steam turbine rotor thermal running testing machine



◆ 电子万能试验机
Electronic universal testing machine

产品与服务

—— 流体机械产品

PRODUCTS AND SERVICES
FLUID MACHINERY PRODUCTS

工业鼓风机 INDUSTRIAL BLOWER



产品介绍 / PRODUCT INTRODUCTION

公司联合西安交通大学倾力研制，产品高效区宽，精准度高，气动性能强，有效应对各运行工况的耐磨、耐腐、耐高温等特殊要求，风机产品技术水平达国内一流。

Associated with Xi'an Jiaotong University in R&D, JTL products are of high working efficiency and energy saving, high precision, strong pneumatic performance. It can effectively meet special requirements such as wear resistance, corrosion resistance and high temperature resistance under various operating conditions, and the technical level reaches the first-class in China.

应用领域 / APPLICATIONS



水泥建材： Building Material Plant

高温风机、循环风机、除尘风机、冷却风机、水泥磨循环风机、窑头接力风机

High-temperature Fan, Circulating Fan, De-dusting Fan and Cooling Fan, Cement Mill Circulating Fan, Kiln End Relay Fan



火力发电、新能源发电： Power Plant

一次风机、送风机、引风机、烟气再循环风机、脱硫脱硝增压风机

Primary Air Fan, Forced Draft Fan, Induced Draft Fan, Flue Gas Recirculating Fan, Desulfurization and Denitrification Supercharging Fan



钢铁冶金： Metallurgic Plant

各工艺段除尘风机、烧结主轴风机、冷轧线工艺风机、转炉煤气风机、污水曝气风机、干熄焦循环风机、烧结内循环风机、余热循环风机、脱硫脱硝增压风机

Dedusting Fan, Sintering Main Shaft Fan, Cold Rolled Line Process Fan, Converter Gas Fan, Sewage Aeration Fan, CDQ Circulating Fan, Sintering Internal Circulating Fan, Waste Heat Circulating Fan, Desulfurization and Denitrification boosting Fan



化学化工： Chemical Plant

动力站锅炉风机、工艺段用风机、裂解炉引风机、解析气风机、氮气循环风机、聚丙烯装置鼓风机

Power Station Boiler Fan, Process Section-Fan, Cracking Furnace Induced Draft Fan, Absorbed Gas Fan, Nitrogen Circulation Fan, Polypropylene Plant Blower



◆ 宝钢炼钢二次除尘风机
Baosteel Secondary Dedusting Fan



◆ 中天钢铁绿色精品钢项目焦炉煤气鼓风机
Zhongtian Green Fine Steel Project Coke Oven Gas Blower



◆ 高义钢铁OG风机
Gaoyi Steel OG Fan Retrofit



◆ 宝钢湛江焦炉煤气鼓风机
Baosteel Zhanjiang Coke Oven Gas Blower



◆ 华能大连电厂二期引风机
Huaneng Dalian Power Plant Induced Draft Fan

产品与服务

—— 流体机械产品

PRODUCTS AND SERVICES
FLUID MACHINERY PRODUCTS

离心空气压缩机

CENTRIFUGAL AIR COMPRESSOR

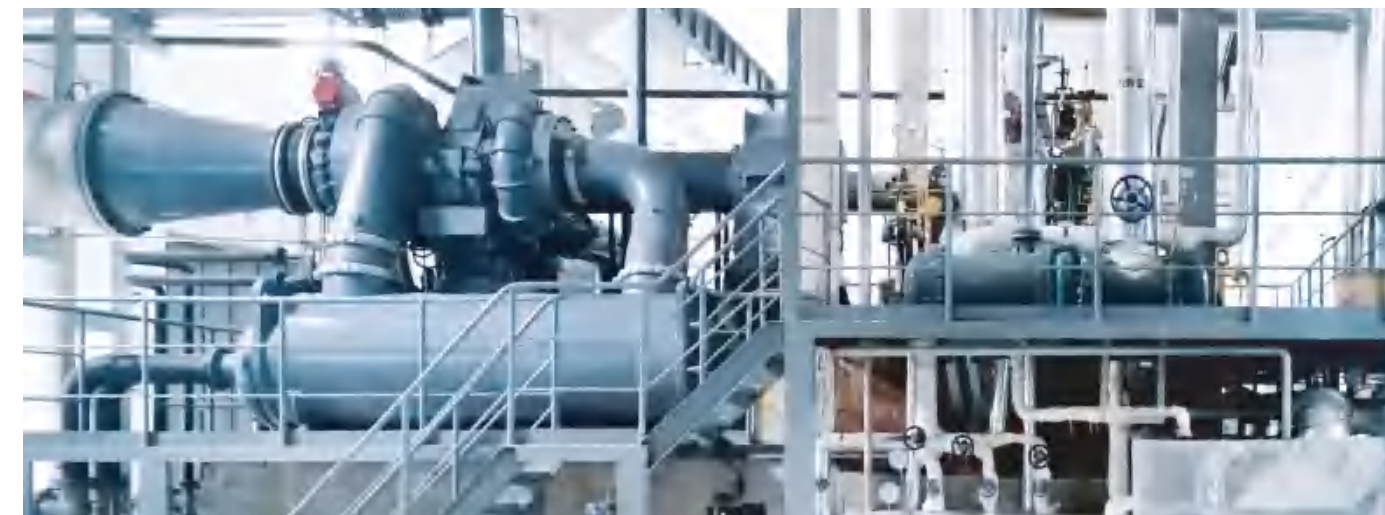
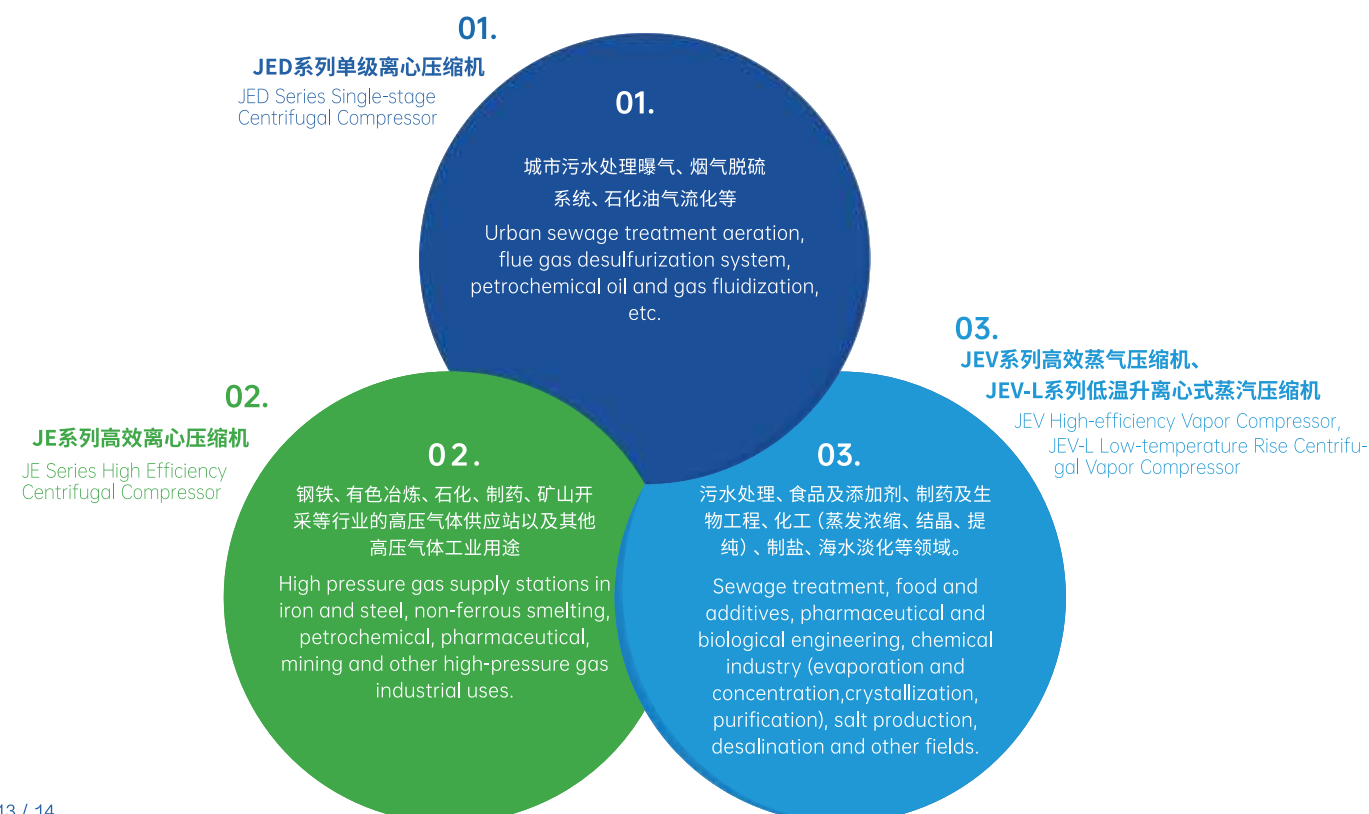


产品介绍 / PRODUCT INTRODUCTION

通过引进美国ETI技术，实现整机设计、制造、试验自主成套。高效的气动设计，使叶轮效率达到92%以上。自主开发的PLC控制系统可实现一键启动，并通过联锁保护、喘振保护等功能保证机组安全运行，并实现机组能耗与系统工况的最优匹配。

Through the introduction of ETI technology from the U.S, the design, manufacturing and testing of the complete machine can be realized. High efficiency pneumatic design, making the efficiency of impeller more than 92%. The PLC control system developed independently can realize one-button start and ensure unit safe operation through interlock protection surge protection etc. Moreover, the optimized performance between energy consumption and system working conditions is realized.

应用领域 / APPLICATION FIELD



◆ 杭州联投汽拖空气压缩机
Hangzhou United Investment Gas-driven Compressor



◆ 四川应林元明粉工艺低温升离心式蒸汽压缩机
Sichuan Yinglin Sodium Sulfate Process Low Temperature Rise Centrifugal Steam Compressor



◆ 威远成渝钒钛集中式空压站项目
Weiyuan Chengyu Vanadium and Titanium Centralized Air Compressor Station Project



◆ 菲律宾项目制糖工艺低温升离心式蒸汽压缩机
Philippines Sugar Plant Low Temperature Rise Steam Compressor



◆ 新疆伊犁生物制药公司MVR蒸发站蒸汽压缩机
Xinjiang Yili Biopharmaceutical Company MVR Evaporation Station Steam Compressor

产品与服务

—— 流体机械产品

PRODUCTS AND SERVICES
FLUID MACHINERY PRODUCTS

小型高效汽轮机

SMALL HIGH EFFICIENCY STEAM TURBINE



产品介绍 / PRODUCT INTRODUCTION

采用国际先进的汽轮机设计技术，为中小型发电机组量身定制，采用全粘性三维通流及独特的结构设计，减少了汽轮机的各项损失，提高了内效率，较传统汽轮机有较高的热循环效率，适应于光热发电、垃圾发电等启动频繁、负荷变化大的应用场合。

Adopting international advanced steam turbine design technology, tailored for small and medium-sized generator sets. The full viscous three-dimensional flux and unique structural design reduce the various losses of the turbine, improve the internal efficiency and have higher thermal cycle efficiency than traditional turbines, making it suitable for applications such as solar thermal power generation and garbage power generation with frequent starts and large load changes.

应用领域：

APPLICATION FIELD

- 新能源
New energy
- 可再生能源
Renewable energy
- 分布式能源的高效发电
Efficiency power generation of distributed energy
- 大型动力设备的汽机拖动
Steam turbine driven large rotating equipment



◆ 沈阳西部环境垃圾焚烧发电项目汽轮机组
Shenyang Waste Incineration Power Plant Steam Turbine Unit



◆ 南通江山农药化工股份有限公司 12MW背压汽轮机
Nantong Jiangshan Agrochemical & Chemical 12MW Back-pressure Steam Turbine Unit



◆ 南通天生港发电厂汽拖空压机集中空压站项目
Nantong Tiansheng Port Power Plant Gas-driven Compressor



◆ 山西高义钢铁15MW发电项目汽轮机组
Shanxi Gaoyi Steel 15MW Power Generation Project Steam Turbine Unit

产品与服务

——高端设备制造

PRODUCTS AND SERVICES
HIGH-END EQUIPMENT MANUFACTURING

新能源高效锅炉

INDUSTRIAL BOILER

产品介绍 / PRODUCT INTRODUCTION

上海工业锅炉（无锡）有限公司长期与上海交大合作，针对燃料品种特性，采用适当的燃料收集，运输和炉前燃料传送方式，并采用锅炉结构形式，配置合适的燃烧系统及配风方式。解决了炉内结焦，燃烧不充分和尾部受热面易腐蚀等问题。

Shanghai Industrial Boiler (Wuxi) Co., Ltd. has long-term cooperation with Shanghai Jiaotong University. Based on the characteristics of fuel varieties, it adopts appropriate fuel collection, transportation and fuel delivery methods in front of the furnace, and adopts the boiler structure, equipped with appropriate combustion systems and air distribution methods. It solves the problems of coking in the furnace, insufficient combustion and easy corrosion of the heated surface of the tail.



◆ SHS 20-1.25-AII 高效煤粉锅炉
SHS20-1.25-AII High Efficiency Pulverized Coal Boiler



应用领域 / APPLICATION FIELD

工业领域的各类油、气介质回收燃烧热电联产、各类余热回收利用发电、垃圾污泥、低热值煤种及生物质等燃烧热电联产。

Combustion cogeneration of various oil and gas media recovery and combustion of various waste heat recovery for power generation, waste sludge, low calorific value coal and biomass in the industrial field.



◆ 味之素(中国)有限公司3×10吨锅炉
Ajinomoto China 3x10t Boilerr



◆ 康隆达(越南)安防科技有限公司配套热电联产项目一期工程
Kanglongda (Vietnam) Security Technology Cogeneration Project



◆ 成渝钒钛80MW机组工业锅炉
Chengyu Vanadium Titanium 80MW Unit Industrial Boiler



◆ 德龙钢铁高炉煤气25MW余热发电项目(EMC)
Delong Steel Blast Furnace Gas 25MW Waste Heat Power Project (EMC)



◆ 巴基斯坦ICI 18MW热电厂项目
Pakistan ICI 18MW Thermal Power Plant Project

产品与服务

——高端设备制造

PRODUCTS AND SERVICES
HIGH-END EQUIPMENT MANUFACTURING

流态冰制冰机组 SLURRY ICE UNIT



产品介绍 / PRODUCT INTRODUCTION

制冰机组提供的流态冰是成淤浆状的液冰，冰晶呈微小的针状或鳞片状。既有冰的特性，又有流体的特点，是一种全新的相变载冷剂。流态冰具有蓄冷密度大，流动性好，传热性能强，融冰降温速度快，对负荷变化的响应能力强，可保持稳定的供水温度等优点。产品冰晶发生器不结垢，运行成本低，设备寿命长，噪音小，系统维护成本低，回收水质量高，浓缩及分盐产品品质好。

The slurry ice supplied by the ice maker unit is sludgy liquid ice with tiny needle-like or scale-like ice crystals. It has both the characteristics of ice and fluid, and is a new phase change carrier coolant. It has the advantages of high density of cold storage, good fluidity, strong heat transfer performance, fast melting ice cooling speed, strong responsiveness to load changes, and can maintain a stable water supply temperature. The product ice crystal generator does not scale, low operating cost, long equipment life, low noise, low system maintenance cost, high quality of recovered water, good quality of concentrated and salt separation products.

应用领域 / APPLICATION FIELD

广泛应用于暖通空调领域，冷冻浓缩领域，保鲜、冷链等领域。可为大型集中式能源站、蓄冰空调系统、工业工艺冷却系统、冷冻浓缩系统（高盐废水、高糖废水、高COD有机物废水、RO浓水回用、垃圾渗滤液、废酸回用、新鲜果汁、咖啡与茶、酒类及含酒精饮料、天然提取液、保健饮料、生物制品等）、渔业制冰及保鲜系统等提供高效节能的成套系统解决方案。

Widely used in the field of HVAC, freeze concentration, fresh-keeping, cold chain and other fields. It can provide a complete set of energy-efficient and energy-saving solutions for large-scale centralized energy stations, ice storage air conditioning systems, industrial process cooling systems, freeze concentration systems (high-salt wastewater, high-sugar wastewater, high-COD organic wastewater, reuse of RO concentrated water, landfill leachate, waste acid reuse, fresh fruit juices, coffee and tea, alcohol and alcoholic beverages, natural extracts, health beverages, biological products, etc.), fishery ice making and fresh-keeping systems, etc.



如皋氢能产业园办公楼蓄冷蓄热、冷热共槽
Rugao Hydrogen Energy Industrial Park Office Building Ice storage and Heat Storage, Cold and Hot Co-tank



加拿大BLACKS HARBOUR海产品公司 ORE100 动态冰浆机
Canada BLACKS HARBOUR Seafood Company ORE100 Dynamic Ice Slurry Machine



美国西特卡 ORE50 动态冰浆机
US Sitka ORE50 Dynamic Ice Slurry Machine



安徽超威环境 电池拆解废液处理：硫酸钠分盐
Anhui Chaowei Environmental Battery Dismantling Waste Liquid Treatment: Separation of sodium sulfate

产品与服务

——高端设备制造

PRODUCTS AND SERVICES
HIGH-END EQUIPMENT MANUFACTURING

氢燃料电池空气压缩机

HYDROGEN FUEL CELL AIR COMPRESSOR



产品介绍 / PRODUCT INTRODUCTION

该产品是一款电驱离心压缩机，产品采用高效、可靠的空气轴承技术，为各类应用提供高品质的压缩空气。

采用高速空气轴承技术，确保压缩机无油运行；

高转速设计，功率密度比高；

优异的空气动力学和电磁学设计，使压缩机达到最高效率；

通过内置温度测控实现过载保护。

It is a highly compact, hi-speed, electrically driven radial compressor with gas bearing, provides high quality compressed air for various application .

High-speed gas bearing for oil free operation.

High power density benefit from highest speed.

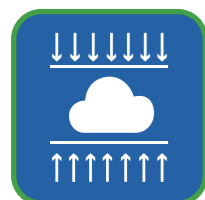
Optimized aerodynamic & electromagnetic for highest efficiency.

Integrated temperature measurement for overload protection.

应用领域 / APPLICATION FIELD

乘用车、物流车、公交大巴、轨道交通、海工船舶、分布式能源、备用电源、地面固定发电、无人飞行器等等。

Passenger vehicles, logistics vehicles, buses, rail railway traffic, ocean engineering shipping, distributed energy, backup power, ground stationary power generation, unmanned aerial vehicles, etc.



产品与服务

——高端设备制造

PRODUCTS AND SERVICES
HIGH-END EQUIPMENT MANUFACTURING

移动能源车

MOBILE ENERGY VEHICLES



产品介绍 / PRODUCT INTRODUCTION

整车设计、发电机组系统、自动化控制由金通灵自主完成；

移动电源车功率范围广，从20kW到3500kW，满足不同功率需求；

满足国家特种车辆标准，机动能力强、可靠性高、安全性好；

结合市场需求及自身发展，研发出以燃气轮机为动力的JYR3500型燃气轮机移动发电车，具有发电品质好、输出功率大、启动成功率高、加载时间快、运行可靠、振动小等优点。

The entire vehicle design, power generating system and automation control were completed by JTL independently.

The power range of mobile energy vehicles is from 20kW to 3500kW, to meet different power requirements.

Meet the national special vehicle standards, strong mobility, high reliability and good safety.

Combining with market demand and its own development, it has developed JYR3500 gas turbine mobile power generator powered by gas turbine, which has the advantages of good power generation quality, high output power, high starting success rate, fast loading time, reliable operation and low vibration.



应用领域 / APPLICATION FIELD

金通灵旗下泰州锋陵特种电站装备有限公司设计生产的固定电站和移动电站产品，种类齐全，可为市政、机场、通讯、电力等领域提供优质可靠的电站产品。

Taizhou Fengling Special Power Station Equipment Co., Ltd, a subsidiary of Jintongling, designs and produces a complete range of fixed and mobile power station products, which can provide high quality and reliable power station products for municipalities, airports, communications, electric power and other civilian fields as well as military units such as the Air Force, Navy and Rocket Force.

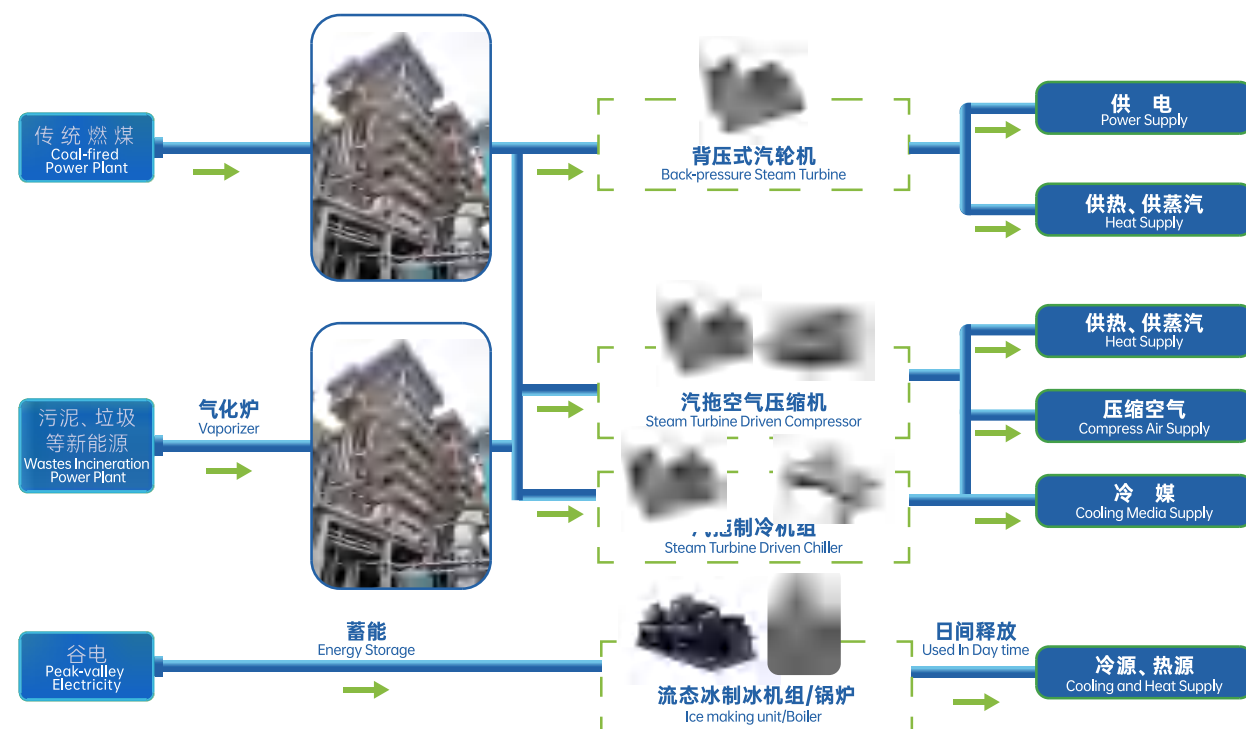
产品与服务

——系统集成

PRODUCTS AND SERVICES
SYSTEM INTEGRATION

工业园双降低碳系统集成

INDUSTRIAL PARK DUAL CARBON
REDUCTION SYSTEM INTEGRATION



工业园双降低碳系统集成应用汽拖空气压缩机、汽拖制冷压缩机、冰蓄冷等系统，采用项目总承包的方式，包含设计、设备制造及采购、施工总承包(含施工、材料、耗材、竣工验收和相关技术服务)等，对园区富余能源进行阶梯利用，解决背压机负荷率低、原分散型能源（蒸汽、压缩空气、冷、热等）运营成本高效率低等现象，同时为周边企业集中提供电、供热、蒸汽、压缩空气、冷源等多种能源。

Integrated application of double carbon reduction systems in industrial parks, steam turbine driven refrigeration compressor system, ice storage and cooling system, and adopts the general contracting method, including design, equipment manufacturing and procurement, and general construction contracting (including construction, materials, consumables, completion inspection and related technical services), etc., to make stepwise utilization of the surplus energy in the park, solving the phenomena of low load rate of the backpressure, low operating cost and high efficiency of the original decentralized energy sources (steam, compressed air, cooling and heating, etc.), as well as providing a variety of energy sources such as electricity, heating, steam, compressed air and cooling source for the neighboring enterprises.



上海工锅(无锡)厂区冰蓄冷、蓄热能源站
Shanghai Industrial (Wuxi) Energy Storage station



安徽丰原集团年产15.36亿方汽轮机拖动空气压缩机
Anhui Fengyuan Annual Output of 1.536 Billion m³ Steam Turbine driven Air Compressor



成渝钒钛年产15万方压缩空气站
Chengyu Fantai Annual Output of 150,000 m³ Compressed Air Station



德龙钢铁40MW余气发电工程
Delong Steel 40MW Waste Gas Power Generation Project

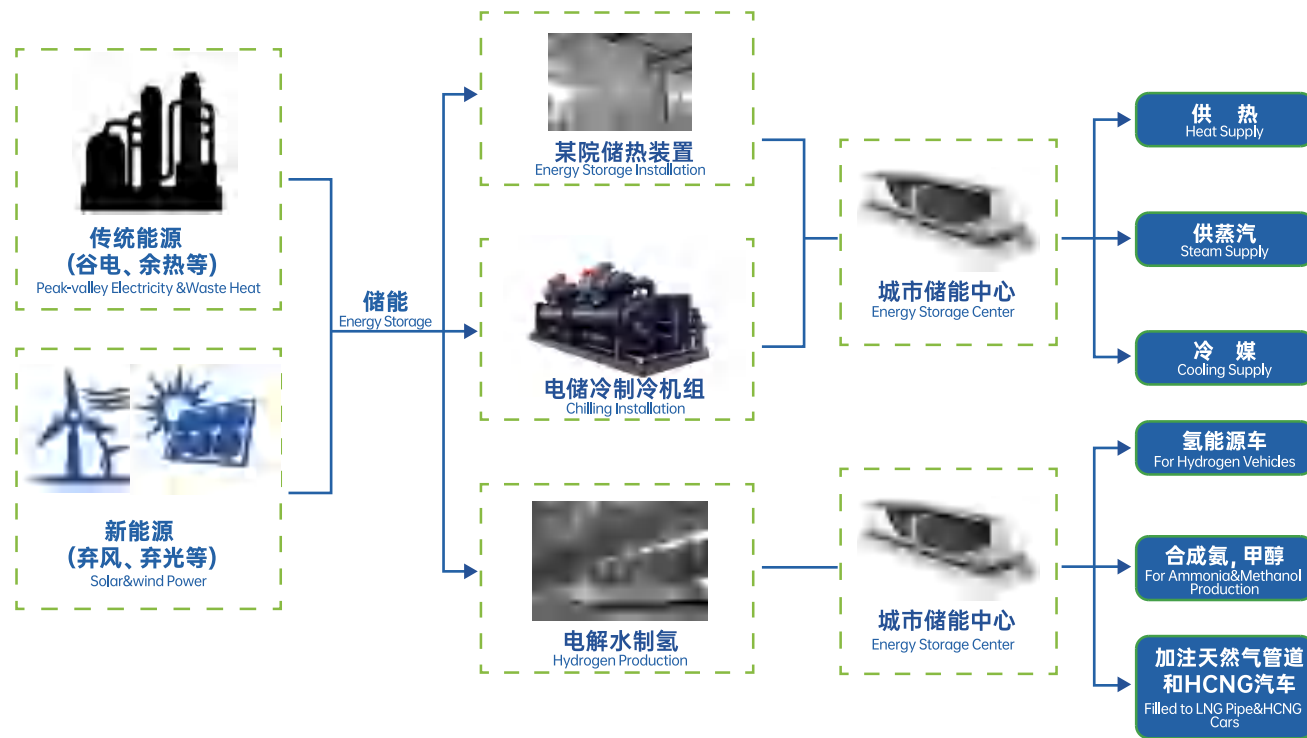
产品与服务

——系统集成

PRODUCTS AND SERVICES
SYSTEM INTEGRATION

储能智慧能源站（储热、储冷）系统集成

ENERGY STORAGE INTELLIGENT ENERGY STATION
(HEAT STORAGE, COLD STORAGE) SYSTEM INTEGRATION



- 进入“十四五”发展新阶段，国家在产业政策上加大了对光伏、风电等可再生能源领域技术的支持力度。随着全球电气化程度的提升，储能系统具备调节可再生能源负荷的能力，是实现碳中和的重要一环。目前国家将成立城市储能中心以满足电网调峰、弃风、弃光等利用。

Entering a new stage of development during the "14th Five-Year Plan", the state has increased its support for technologies in the fields of photovoltaics, wind power and other renewable energy fields in terms of industrial policy. With the increase in global electrification, energy storage systems have the ability to regulate renewable energy loads and are an important part of achieving carbon neutrality. At present, the country will establish an urban energy storage center to meet the utilization of power grid peak regulation, wind curtailment, and solar curtailment.

产品介绍 / PRODUCT INTRODUCTION

金通灵与某研究院合作，共同开发高温储热系统，该系统具有如下特点：

- 导热率高，是传统储热系统的10倍
- 储热密度高，达到镁砖或熔盐的1.5倍
- 热稳定性好，本质安全
- 系统效率>95%，热损失<3%/天

JTL TECH cooperated with a research institute to jointly develop a high-temperature heat storage system. The system has the following characteristics:
High thermal conductivity, 10 times that of traditional heat storage systems
High heat storage density, up to 1.5 times that of magnesia brick or molten salt
Good thermal stability, intrinsically safe
System efficiency >95%, heat loss <3%/day



◆ 1MW高温储热系统
1MW high temperature heat storage system

应用领域及市场空间

APPLICATION AREAS AND MARKET SPACE

该储热系统可广泛运用在火电厂深度调峰、低成本高品质工业蒸汽、水泥/钢铁/冶金/化工等领域清洁能源利用、高效光热发电、高效热管理等领域，市场规模总计超万亿。

The heat storage system can be widely used in thermal power plant deep peak shaving, low-cost high-quality industrial steam, cement/steel/metallurgy/chemical and other fields, high-efficiency solar thermal power generation, high-efficiency thermal management and other fields, with a total market size of over 10,000 100 million.

产品介绍 / PRODUCT INTRODUCTION

金通灵控股子公司江苏金通灵储能科技拥有电储冷流态冰专利技术，利用谷电和弃风弃光电储存大量流态冰，广泛应用于暖通空调领域、冷冻浓缩领域、保鲜冷链等领域。可为大型集中式能源站、蓄冰空调系统、工业工艺冷却系统、冷冻浓缩系统、污水处理、渔业制冰及保鲜系统等提供高效节能的成套系统解决方案。该技术有工程示范的支持，在储能背景下金通灵具备电储冷的先发优势。

Jiangsu Jintongling Energy Storage Technology, a subsidiary of JTL TECH Holdings, has the patented technology of electric cold storage fluid ice. It uses valley electricity and abandoned wind and photovoltaic to store a large amount of fluid ice. cold chain and other fields. It can provide high-efficiency and energy-saving complete system solutions for large-scale centralized energy stations, ice-storage air-conditioning systems, industrial process cooling systems, freeze-concentration systems, sewage treatment, fishery ice-making and fresh-keeping systems, etc. The technology is supported by engineering demonstrations. In the context of energy storage, Jintongling has the first-mover advantage of electric cold storage.



◆ 中天钢铁绿色精品钢项目生产指挥中心
高效电储能及余热回收空调系统集成项目

市场空间 / MARKET SPACE

商用冷源站用电量约占全国发电系统4.2%，约为3000亿千瓦时，节约燃煤3680万吨，冷源站改造市场规模超2000亿。

The electricity consumption of commercial cold source stations accounts for about 4.2% of the national power generation system, about 300 billion kWh, saving 36.8 million tons of coal, and the market size of cold source station renovation exceeds 200 billion.

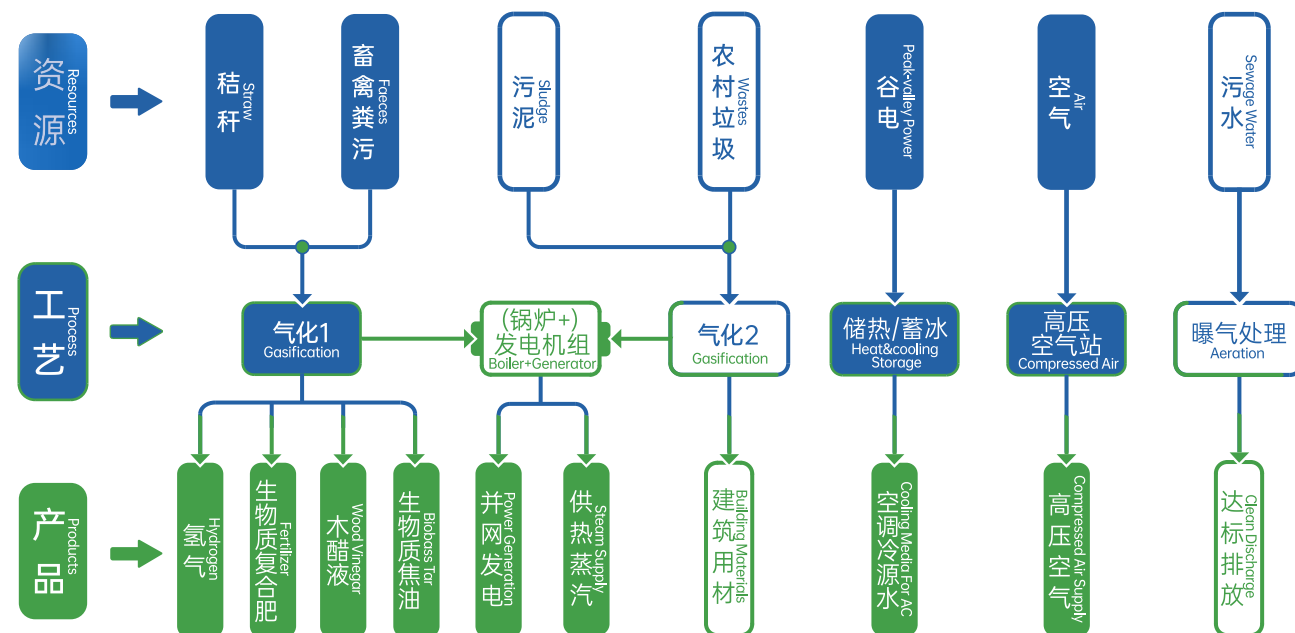
产品与服务

——系统集成

PRODUCTS AND SERVICES
SYSTEM INTEGRATION

生物质气化综合利用系统集成

BIOMASS GASIFICATION COMPREHENSIVE UTILIZATION SYSTEM INTEGRATION



金通灵的生物质气化制氢制甲醇系统集成，是以玉米秆、稻草秆、畜禽粪污等生物质为原料，加工成固体成型燃料，进入封闭的生物质气化炉，在高温高压下，运用热化学反应原理，通过不完全燃烧产生一氧化碳、氢气、甲烷等可燃气体。相较于直燃发电单一产出物——电，气化发电的产出物有电、氢气、蒸汽、焦油和生物质碳等，形成电、热、汽、氢气、焦油等产品联产联供，经济效益更好；气化过程温度低、大气污染排放物更少。

Biomass gasification hydrogen to methanol system integration of JTL, using corn stalks, straw stalks, livestock and poultry manure and other biomass as raw materials to be processed into solid fuels, which enter the closed biomass gasifier, and then under high temperature and pressure, using the principle of thermochemical reaction, produce carbon monoxide, hydrogen, hydrogen, carbon monoxide, hydrogen and hydrogen gas through incomplete combustion. Combustible gases such as methane. Compared with electricity, which is the single output of direct-fired power generation, the output of gasification power generation includes electricity, hydrogen, steam, tar and biomass carbon, etc., resulting in a cogeneration of electricity, heat, steam, hydrogen, tar and other products, which is more economically efficient; the gasification process has a lower temperature and fewer emissions of air pollution.prises.



◆ 10MW高温高压再热式汽轮机
10MW high temperature and high pressure reheat steam turbine



◆ 5000Nm³/h 固定床气化炉及净化系统
5000Nm³/h fixed-bed gasifier and purification system



◆ 35t/h高温高压再热锅炉
35t/h high temperature and high pressure reheat boiler



◆ 高邮10MW生物质气化热电联产项目
Gaoyou 10MW Biomass Gasification Cogeneration Project

产品与服务
——系统集成

PRODUCTS AND SERVICES
SYSTEM INTEGRATION

生物质气化综合利用(制氢制甲醇)系统集成

BIOMASS GASIFICATION COMPREHENSIVE UTILIZATION(HYDROGEN AND METHANOL PRODUCTION) SYSTEM INTEGRATION



由金通灵自主研发的生物质固定床气化炉,在一定的热力学条件下,生物质原料与气化剂发生复杂的氧化还原反应,将生物质原料转变为以CO、H₂以及小分子烃类为主的可燃气体,通过检测,H₂含量在20%左右,目前已设计院合作研发,可得到≥99.99%的H₂。生物质制氢既保护生态环境,又生产清洁能源,具有双重优点。特别是在生物质丰富的地区,从长远来看,生物质制氢法将会是制氢工业中最具潜力的技术。

Independently developed biomass fixed-bed gasifier. Under certain thermodynamic conditions, a complex redox reaction between biomass raw material and gasifying agent, which converts biomass raw material into combustible gas mainly composed of CO, H₂ and small molecular hydrocarbons. Through detection, the content of H₂ is about 20%. At present, it has been researched and developed in cooperation with the design institute and can obtain H₂ ≥99.99%. Hydrogen production from biomass has the dual advantage of protecting the ecological environment and producing clean energy. In the long run, biomass hydrogen production will be the most promising technology in the hydrogen production industry, especially in biomass-rich areas.

海水制冰系统集成

SEA WATER ICE MAKING
SYSTEM INTEGRATION

产品多样化:
Product Diversification

利用海水/盐水直接制取冰浆,雪冰,以及可直接形成渔民习惯使用的碎冰。

Seawater/saltwater is used to produce ice slurry, snow ice, and crushed ice that can be used directly by fishermen.

无添加,零排放:
No Additives, Zero Emissions

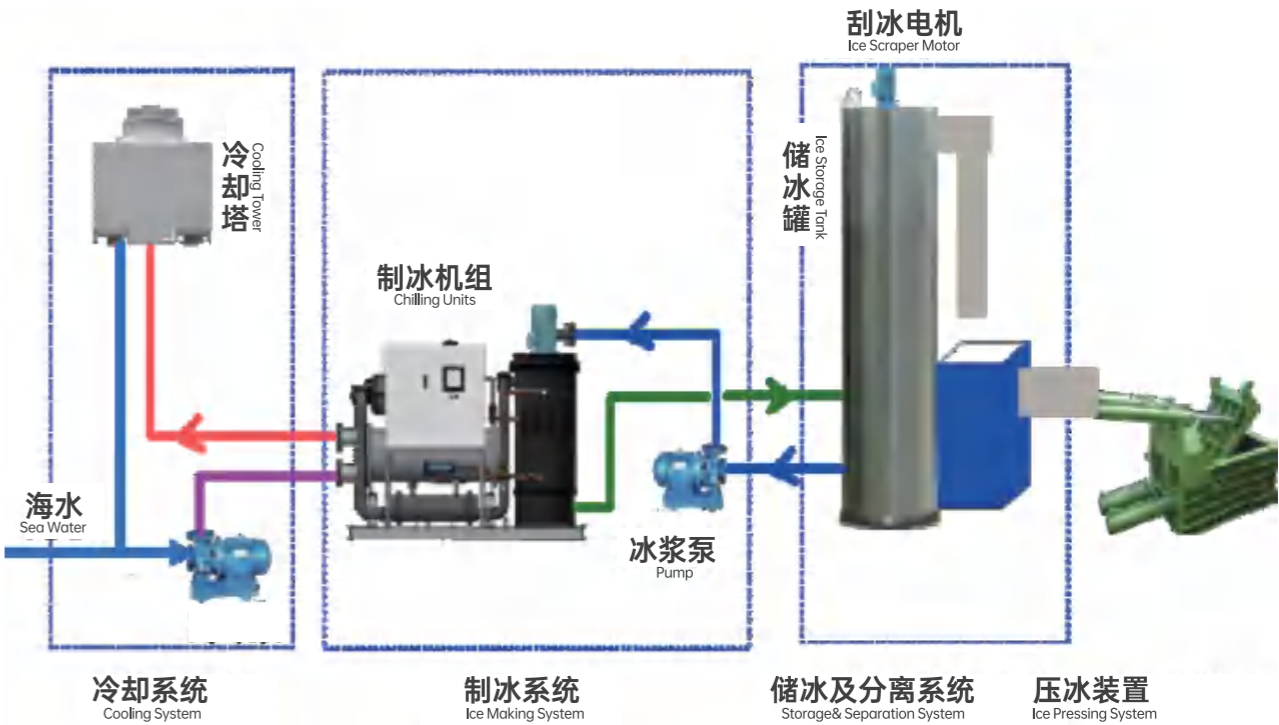
制冰过程无需向海水中添加任何物质,渔港地区实现就地取材,零排放。

No substances are added to the seawater in the ice making process, and the fishing port area realizes local materials and zero emission.

附加产值高:
High Added Value

制冰后蓄冰桶内海水浓度增加,可回收后提取海盐,海盐具有消毒、止痒、杀菌、消炎等功效,可以制作成海盐皂,有机海盐,浴盐等。

After making ice, the concentration of seawater in the ice storage tank increases, which can be recycled to extract sea salt, which has the effect of disinfecting, itching, sterilizing and anti-inflammatory, and can be made into sea salt soap, organic sea salt, bath salt and so on.



产品与服务

——系统集成

PRODUCTS AND SERVICES
SYSTEM INTEGRATION

风系统改造系统集成

WIND SYSTEM RETROFIT SYSTEM INTEGRATION

我公司为用户量身定制专业而全面的综合节能解决方案，目前已被广泛应用于水泥、钢铁、化工等行业，帮助企业提产增效，减少污染物排放，解决能源浪费等重大难题。风机采用CFD软件通过全流道优化得到高效气动模型，现场整机运行效率不低于百分之八十，丰富的产品系列可以满足各种工况，产品引进全套先进生产设备，实现全线自主生产，有效保证了产品品质和供货时效，为客户提供更可靠，更高效，更稳定的产品。

Our company customize professional and comprehensive energy-saving solutions for users. These solutions have been widely applied in industries such as cement, steel, and chemicals, helping enterprises increase production, enhance efficiency, reduce pollutant emissions, and address significant challenges like energy waste. The fan utilizes CFD software to obtain an efficient aerodynamic model through whole-flow-channel optimization. The on-site overall machine operation efficiency is not less than 80%. The abundant product series can satisfy various operating conditions. The product line incorporates a full set of advanced production equipment to achieve end-to-end independent production, effectively ensuring product quality and timely delivery, providing customers with more reliable, more efficient, and more stable products.

系统优势 / SYSTEM SUPERIORITY

①定制化高效风机设计能力：风机本体改造

Tailored High-Efficiency Fan Design: Comprehensive fan structure modifications

②风系统测试能力：系统优化、提高设备与系统的匹配度

Advanced Wind System Testing Capabilities: System optimization and enhancement of equipment-system compatibility

③高效产品替代：高速离心风机替代罗茨风机

Effective Product Substitution: High-speed centrifugal fan implementation, replacing traditional Roots blowers

④改造经验丰富：多个大型风系统改造业绩

Extensive Experience: Numerous successful large-scale wind system upgrades executed



◆ 高义钢铁OG风机改造工程
Gaoyi Steel OG Fan Retrofit Project



◆ 宁夏嘉可善新能源风系统改造工程
Ningxia Jiakeshan New Energy Wind System Retrofit Project00003



◆ 华能大连电厂二期机组风系统改造工程
Huaneng Dalian Power Plant Phase II Unit Wind System Retrofit Project



◆ 华能电厂风系统节能改造工程
Huaneng Power Plant Wind System Energy-saving Retrofit Project

产品与服务

——系统运营

PRODUCTS AND SERVICES SYSTEM INTEGRATION

集团控股新能源运营公司具有热电厂、生物质电厂、钢厂高炉煤气发电、集中供气站、城市能源中心项目的建设和运营管理经验，多年来进行了多个项目（EMC、BT、BOT、托管运营等）的建设和运营管理，培养了各方面的管理人员、积累了全方位的运营管理经验，打造了一支高效运营管理团队。

已移交的项目有浙江恒鑫生物质热电项目、德龙钢铁高炉煤气发电项目、浙江龙德热电项目、浙江衢州龙游恒盛能源项目、四川威远钢铁80MW煤气发电项目。

The new energy operation company controlled by the group has construction and operation management experience of thermal power plant, biomass power plant, blast furnace gas power generation of steel plant, centralized gas supply station and urban energy center projects. Over the years, it has carried out the construction and operation management of many projects (EMC, BT, BOT, trusteeship operation, etc.) and has cultivated various management personnel and accumulated comprehensive operation and management experience. Built an efficient operation management team.

The turnkey projects include Zhejiang Hengxin biomass thermal power project, Delong iron and steel blast furnace gas power generation project, Zhejiang Longde thermal power project, Zhejiang Quzhou Longyou Hengsheng energy project and Sichuan Weiyuan iron and steel 80 MW gas power generation project.

目前正在建设的黑龙江安达2×20MW生物质气化热电联产项目，利用规模化大型设备进行秸秆气化制气，用高温高压生物质燃气供热机组，实现生物质热电联产，气化产生的炭渣用于制作绿色炭基肥。秸秆的综合利用为农业生产提供了有效的循环通道，提升了地区的环境自洁能力，为绿色可持续发展打下了可靠的基础。

At present, the 2 × 20MW biomass gasification cogeneration project under construction in Heilongjiang province uses large-scale equipment for straw gasification to produce gas, and the high-temperature and high-pressure biomass gas heating unit is used to realize biomass cogeneration.

The carbon residue generated from gasification is used to make green carbon based fertilizer. The comprehensive utilization of straw provides an effective circulation channel for agricultural production, improves the environmental self-cleaning ability of the region, and lays a reliable foundation for green sustainable development.



◆ 成渝钒钛15万方空压站
Chengdu Chongqing vanadium titanium
150000m³ air compressor station



◆ 德龙钢铁高炉煤气发电项目
Delong iron and steel blast furnace gas power
generation project



◆ 高邮林源热电联产项目
Gaoyou Linyuan cogeneration project



◆ 安达生物质热电联产项目
Anda biomass cogeneration project



主要客户

MAIN CUSTOMERS



Jintongling Technology Group has High-tech Enterprise Certification, American Society of Mechanical Engineers (ASME) Standard Certification, Special Equipment Design License for Pressure Piping, Engineering Design Qualification Certification (New Energy Generation B of Power Industry), Class A Boiler Manufacturing License, D1/D2 Pressure Vessel Manufacturing License, Contract Energy Management Registration Certification, Weapon Equipment Quality System Certification, etc.

合作共赢 共创未来
WIN-WIN COOPERATION FOR THE BETTER FUTURE

业务分布

BUSINESS DISTRIBUTION



投资企业

INVESTMENT ENTERPRISE

上海运能能源科技有限公司（简称“上海运能”） Shanghai Win-Energy Technology Co.,Ltd

上海运能是金通灵科技集团股份有限公司的全资子公司，主要提供新能源、可再生能源、热电联产等能源环保领域综合服务方案。上海运能旗下有2家子公司：上海工业锅炉（无锡）有限公司（www.sggboiler.com.cn）、江苏运能能源科技有限公司。

电话: 0513-88787772

地址: 江苏无锡锡山区安镇街道安泰一路101号

Shanghai Win-Energy is a wholly owned subsidiary of Jintongling Technology Group Co., Ltd., which mainly provides comprehensive service solutions in the field of energy and environmental protection, such as new energy, renewable energy, cogeneration,etc. Shanghai Win-Energy has Two subsidiaries: Shanghai Industrial Boiler (Wuxi)Co.,Ltd, Jiangsu Win-Energy Technology Co.,Ltd.

Tel:0513-88787772

Address:No.101, Antai 1st Road, Anzhen Street, Xishan District, Wuxi, Jiangsu, China

江苏金通灵鼓风机有限公司 Jiangsu Jintongling Blower Co.,Ltd

该公司是国内一流的大型工业鼓风机设计与制造企业，装备先进的检测、加工、运转试验等设备，可为客户提供量身定制服务。

电话: 0513-68582315

地址: 江苏省南通市崇川区钟秀中路135号/
南通市如皋城北街道双龙社区

The company is a first-class large-scale industrial blower design and manufacturing enterprise in China, equipped with advanced testing, processing and running test equipment, which can provide customized services for customers.

Tel:0513-68582315

Address:No.135 Zhongxiu Middle Road, Chongchuan District, Nantong City, Jiangsu Province / Shuanglong Community, Chengbei Street, Rugao, Nantong City

江苏金通灵精密制造有限公司 Jiangsu Jintongling Precision Manufacture Co.,Ltd

该公司拥有先进的数控加工和检测设备，承接高精度机械制造业务，为客户提供优质、高效、专业的服务！

电话: 综管处0513-68615512

地址: 南通市崇川区钟秀东路135号

The company has advanced CNC processing and testing equipment to undertake high-precision machinery manufacturing business, providing customers with high quality, efficient and professional services.

Tel:IMIS 0513-68615512

Address:135 Zhongxiu East Road, Chongchuan District, Nantong

江苏金通灵储能科技有限公司 Jiangsu Jintongling Energy Storage Technology Co., Ltd

该公司是金通灵科技集团股份有限公司旗下以研发、设计、生产、销售各类蓄能（蓄冷、蓄热、蓄能）、制冰、冷冻浓缩、污水处理、空气净化等科技成套产品及服务的高新技术企业。主要生产流态冰蓄冷机组，海水制冰机组，冷冻浓缩机组，空气净化机组，服务于空调、渔业、食品、冷链物流、污水处理、制药与化工、环保等行业。

电话: 0513-68391010

地址: 江苏省南通市崇川区钟秀中路135号/
南通市如皋市城南街道马塘路88号

The company is a high-tech enterprise specializing in R & D, design, production and sale of all kinds of energy storage (cold storage, heat storage, energy storage), ice making, freeze concentration, sewage treatment, air purification and other scientific and technological products and services under Jintongling Technology Group Co., Ltd.It mainly produces ice slurry cold storage unit, sea water ice making unit, freeze concentration unit, air purification unit, serving air conditioning, fishery, food, cold chain logistics, sewage treatment, pharmaceutical and chemical industry, environmental protection and other industries.

Tel:0513-68391010

Address:No.135 Zhongxiu Middle Road, Chongchuan District, Nantong City, Jiangsu Province/No.88 Matang Road, Chengnan Street, Rugao City, Nantong

江苏金通灵氢能机械科技有限公司 Jiangsu Jintongling Hydrogen Technology Co.,Ltd

公司凭借其多年以来在流体机械领域积累的丰富经验，采用国际先进超高速电机及气悬浮轴承技术，专注于燃料电池压缩机的研发和制造，为氢燃料电池乘用车、商用车配套，向客户提供定制化产品与服务。

电话: 0513-68582369

地址: 江苏省南通市崇川区钟秀中路135号

With its rich experience in the field of fluid machinery for many years, the company adopts the international advanced ultra-high speed motor and air suspension bearing technology, focuses on the research and development and manufacturing of fuel cell compressors, and provides customized products and services for hydrogen fuel cell passenger cars and commercial vehicles.

Tel:0513-68582369

Address:No.135 Zhongxiu Middle Road, Chongchuan District, Nantong City, Jiangsu Province

泰州锋陵特种电站装备有限公司 (www.tzfltzd.com) Taizhou Fengling Super Power Equipment Co.,Ltd

该公司是金通灵科技集团股份有限公司控股子公司，是从事柴油发电机组的研发、生产、销售、服务于一体的高新技术企业，主要产品有加固型电站、拖车电站、便携式电站、电力保障车、汽车低噪音方舱电站、燃气轮机移动电站等，服务于军民各领域。

电话: 0523-86311283

地址: 泰州市经济开发区祥泰路401号

The company is a holding subsidiary of Jintongling Technology Group Co., Ltd., and is a high-tech enterprise engaged in the R & D, production, sales and service of diesel generating units. Its main products include reinforced power stations, trailer power stations, portable power stations, electric power support vehicles, low noise square cabin power stations of automobiles, gas turbine mobile power stations and so on, serving the military and civilian fields.

Tel:0523-86311283

Address:No. 401 Xiangtai Road, Taizhou Economic Development Zone

江苏金通灵新能源运营管理有限公司 Jiangsu Jintonling New Energy Operation Co.,Ltd

该公司主要从事新能源电站、压缩空气站的建设、运营及管理；新能源发电领域内的技术转让、开发、咨询和服务；生物质能综合利用咨询、研发和服务。

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The company is mainly engaged in the construction, operation and management of new energy power stations and compressed air stations. Technology transfer, development, consulting and service in the field of new energy power generation. Consultation, R & D and service for comprehensive utilization of biomass energy.

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● 未来展望

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