RISING BuildTech

Become a world-class industrial temperature control expert

GuangZhou RISING BuildTech CO., LTD.



RISING BuildTech



2001
Founded in 2001

2019
Founded Beijing Branch

2022
Prepare to build new energy plant

2024
The new energy plant was built and put into operation

2017
Establishing a wholly-owned subsidiary in Germany

2021
Listed on Shenzhen Stock Exchange

2023
Establish a number of overseas service outlets Fully layout the global market

2025
Establish branches in Shenzhen, Hangzhou, and Tianjin Accelerate the layout of various industries
Establishing a subsidiary in Singapore Thailand Production Base

- There are currently over 2000 employees
- A listed company on Shenzhen Stock Exchange
- Leading domestic industrial temperature control solution service provider
- Focusing on Industrial Temperature Control Technology Innovation and Professional Development
- A high-tech enterprise that integrates research and development, manufacturing, sales, and service



2001
RISING Headquarters (China)

RISING BuildTech



2017
ATF Wholly owned Subsidiary (Germany)

ATF Kältetechnik



2023
LA Office (USA)







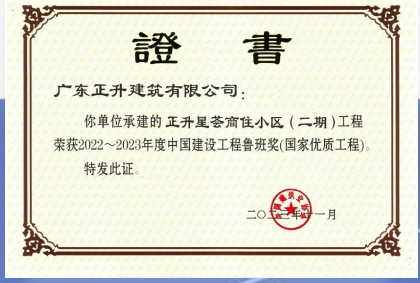
2025
Wholly-owned subsidiary in Singapore, production base in Thailand



Enterprise Qualification


营业执照
（副本）
名　称　广东正升科技有限公司
类　型　有限责任公司（自然人投资或控股）
法定代表人　魏育明
经营范围　科技推广和应用服务业（具体经营项目请登录国家企业信用信息公示系统查询。网址：http://www.gsxt.gov.cn/。依法须经批准的项目，经相关部门批准后方可开展经营活动。）
注册资本　壹仟万元（人民币）
成立日期　2025年01月09日
住　所　广州市白云区石门街石沙公路720号之一自编2#楼1层119-7房
登记机关　2026年05月09日


安全生产许可证
企业名称：广东正升建筑有限公司
法定代表人：魏育明
单位地址：广州市天河区临江大道1号402室403室404室（仅限办公）
经济类型：有限责任公司（法人独资）
许可范围：建筑施工
有效期：2025年07月29日　至　2028年07月28日
发证机关：
发证日期：2025年07月29日


證　書
广东正升建筑有限公司：
你单位承建的正升星荟商住小区（二期）工程荣获2022～2023年度中国建设工程鲁班奖(国家优质工程)。
特发此证。
二〇二三年十一月


建筑业企业资质证书
证书编号：D344125870
企业名称：广东正升建筑有限公司
统一社会信用代码：91440000738578773B
法定代表人：魏育明
注册地址：广州市天河区临江大道1号402室403室404室（仅限办公）
有效期：至2030年08月14日
（需扫码查看各项资质有效期）
资质等级：地基基础工程专业承包二级
发证机关：
发证日期：2025年08月14日


建筑业企业资质证书
证书编号：D244064800
企业名称：广东正升建筑有限公司
统一社会信用代码：91440000738578773B
法定代表人：魏育明
注册地址：广州市天河区临江大道1号402室403室404室（仅限办公）
有效期：至2028年12月26日
资质等级：市政公用工程施工总承包二级
建筑装修装饰工程专业承包一级
建筑幕墙工程专业承包一级
建筑机电安装工程专业承包一级
防水防腐保温工程专业承包一级
机电工程施工总承包二级
发证机关：
发证日期：2024年07月03日


建筑业企业资质证书
（副本）
企业名称：广东正升建筑有限公司
详细地址：广州市天河区临江大道1号402室403室404室（仅限办公）
统一社会信用代码：91440000738578773B
法定代表人：魏育明
注册资本：30000万元人民币
经济性质：有限责任公司（法人独资）
证书编号：D144077047
有效期：2028年12月22日
资质类别及等级：
建筑工程施工总承包叁级；
电力工程施工总承包叁级。
发证机关：
2024年6月27日
中华人民共和国住房和城乡建设部制
全国建筑市场监管公共服务平台查询网址：http://jzsc.mohurd.gov.cn
NO.DF 00080351


中鉴认证有限责任公司
环境管理体系认证证书
NO：00726E00725R001
兹证明
广州正升科技有限公司
注册地址：广州市白云区石门街石沙公路720号之一自编2#楼1层119-7房
统一社会信用代码：91440111MAK0734A04
环境管理体系符合
《环境管理体系 要求及使用指南》
GB/T 24001-2016/ISO14001:2015 标准
该环境管理体系覆盖范围
广州市白云区石门街石沙公路720号1号楼2楼
模块化房屋、集装箱式建筑单元的销售及相关技术支持与售后服务及相关管理活动
本证书有效期自2026年04月27日至2029年04月26日
在证组织必须定期接受监督审核并经审核合格此证书方继续有效
IAF　CNAS　中国认可 国际互认 管理体系 MANAGEMENT SYSTEM CNAS C007-M
公司代表（签名）


中鉴认证有限责任公司
质量管理体系认证证书
NO：00726Q01000R001
兹证明
广州正升科技有限公司
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IAF　CNAS　中国认可 国际互认 管理体系 MANAGEMENT SYSTEM CNAS C007-M
公司代表（签名）


编号：S0612020009199G(S-2)
统一社会信用代码
91440000738578773B
营业执照
（副本）
名　称　广东正升建筑有限公司
类　型　有限责任公司(法人独资)
法定代表人　魏育明
经营范围　房屋建筑业（具体经营项目请登录国家企业信用信息公示系统查询。网址：http://www.gsxt.gov.cn/。依法须经批准的项目，经相关部门批准后方可开展经营活动。）
注册资本　叁亿元（人民币）
成立日期　2002年05月16日
住　所　广州市天河区临江大道1号402室403室404室（仅限办公）
登记机关　2024年06月14日
国家企业信用信息公示系统网址：http://www.gsxt.gov.cn
市场主体应当于每年1月1日至6月30日通过国家企业信用信息公示系统报送公示年度报告
国家市场监督管理总局监制

R&D strength

300+ members of the R&D team

Sharp insights into the industry's cutting-edge technologies

Superior R&D capability of non-standard customization

- **Technical Management Committee**
  - **R&D Technology Center**
  - **Process Management Center**
  - **Equipment Manufacturing Technology Department**
  - **New Energy Technology Department**
  - **Semiconductor Laser Technology Department**
  - **Data Center Technology Department**

R&D model&system

Product R&D | **Engineering design** | **Test& verification** | **Process & manufacturing**

Effectively guarantee the reliability and stability of technology and product R&D



Plant I - Testing center

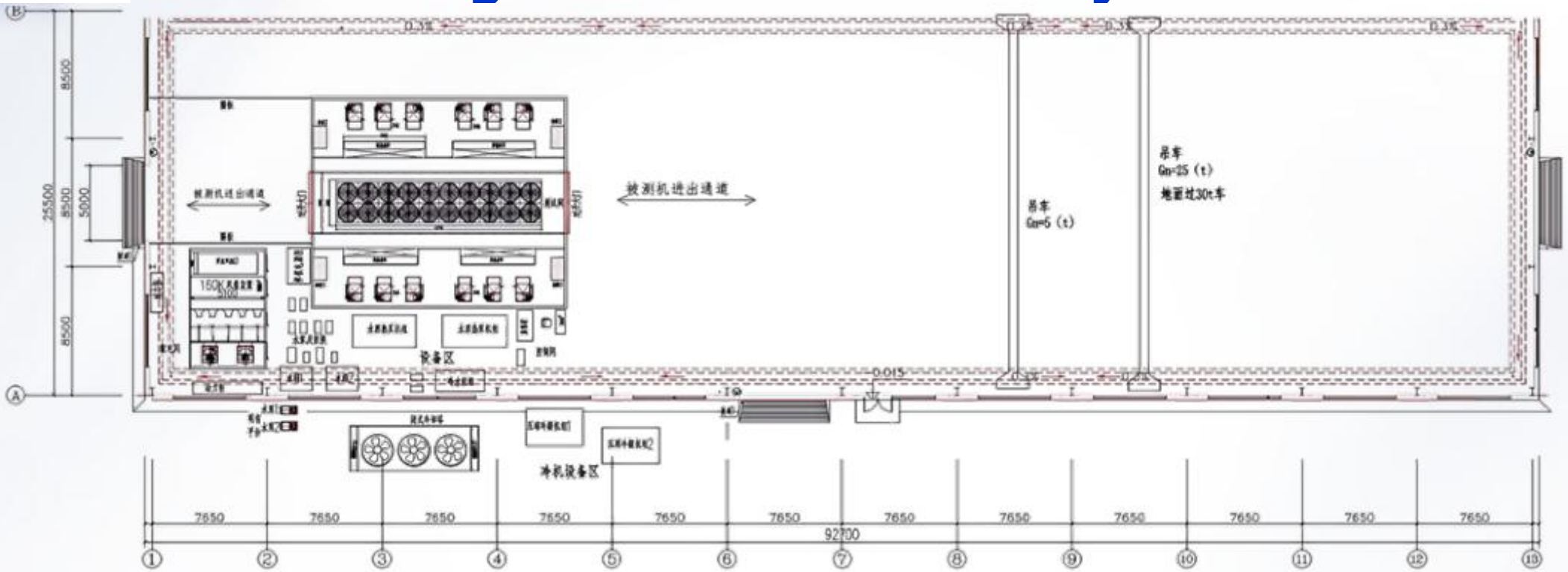


Process center



Plant III -New testing center

R&D strength -800kW Laboratory



		Device Under Test (DUT)				
Testing Item	Unit	Chilled Water Air Conditioner	Dry Cooler	Liquid-Cooled Chiller	Air-Cooled Chiller	CDU
Standards	/	GB/T 19413/ YD/T 3320.1	GB/T 18430.1	GB/T 18430.1 GB/T 18430.2	GB/T 18430.1 GB/T 18430.2	
Cooling Capacity	kW	30~400	100~800	600	600	200~2400
Electrical Power	kW	/	/	300	300	/
Air Flow	m3/h	8000~160000	30000~380000	/	/	/

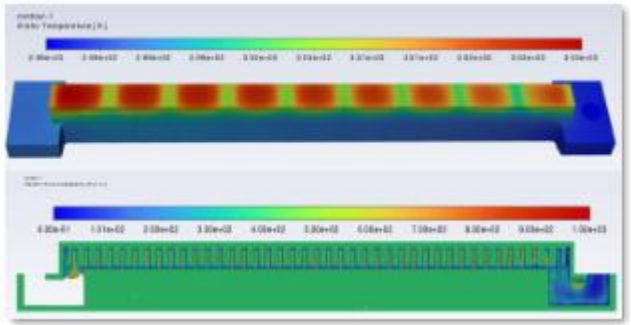
RISING BuildTech

R&D strength

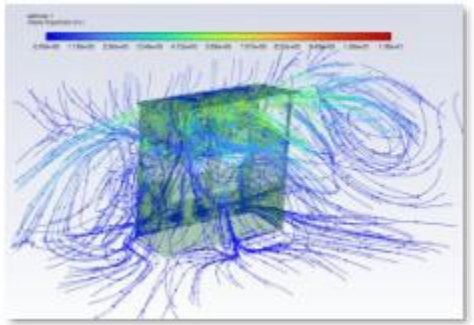
Simulation capacity

CFD fluid & thermal simulation: ANSYS Fluent 2022R2

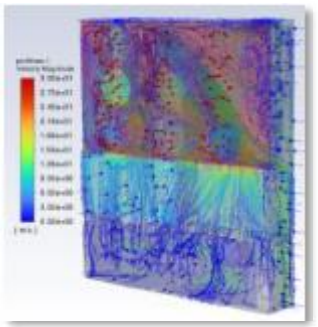
CAE structure simulation: Solidworks Simulation2020



Heat sink flow and heat transfer simulation



Simulation of the wind field outside the cooling unit



Simulation of the wind field inside the cooling unit



Simulation of the liquid circuit of the water cooling unit



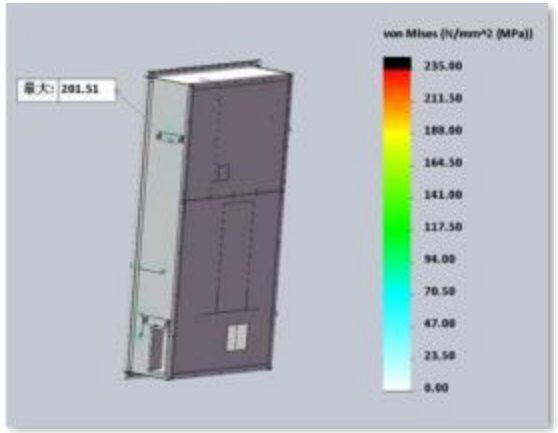
Seismic simulation of unit frames



Unit modal and vibration simulation



Refrigeration pipeline fatigue simulation



Whole machine lifting simulation

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R&D strength

Provincial R&D Center



Center Municipal R&D



6
provincial technical R&D centers

3
municipal technical R&D centers

intellectual property Independent



300+
patents for invention, software copyrights, patents for utility models

R&D strength

There are currently 10 laboratories that can complete over 100 product performance inspections and tests

Refrigeration capacity, energy efficiency ratio, operating curve, hydraulic characteristics, electrical parameters, operating noise, climate simulation, vibration simulation, working condition simulation, etc.



Enthalpy difference laboratory

Test the refrigeration performance of air conditioning products
The air volume can reach 15000m
$ ^ { 3 } $ > / H T
emperature range: -20 °C -65 °C
Humidity range: 30% -95%



Low temperature laboratory

Test the performance of liquid cooled products under extreme cold conditions
Temperature range: -50 °C -65 °C



Environmental laboratory

Test various operating parameters of the equipment at an ambient temperature of 35 °C
Long term aging test Initial debugging of new product prototypes



Comprehensive laboratory
EMC testing
High altitude and low pressure creepage distance test
Vibration simulation test
Salt spray test



Semi anechoic chamber

Environmental noise can be reduced to 20dB
Hexagonal measurement
Accurate measurement of equipment operating noise



Climate Laboratory

Simulate various climate environment ssuch as rainfall and snowfall

Dedicated to providing stable and reliable industrial temperature control equipment and solutions for various industries

Comprehensive guarantee of product energy efficiency ratio, various performance, operational stability, and equipment operation under special working conditions

Applications



Intelligent Computing Center



Smart Equipment Manufacturing



Laser



Power Transmission and Distribution,Electric Drives



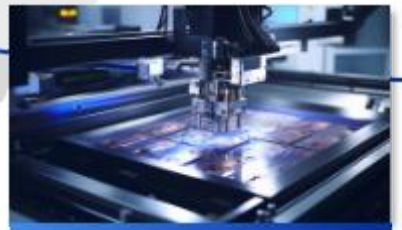
Renewable Energy Storage

RISING BuildTech

Delivering reliable industrial temperature control products and customized solutions across diverse industries



Hydrogen Energy



Semiconductor manufacturing



Medical



New Energy Vehicles (Charging and Swapping)

Strength in production and manufacturing

Plant II: 2# Workshop- Sheet metal workshop

Amada automatic flexible sheet metal production line



CNC laser cutting machine



CNC bending machine



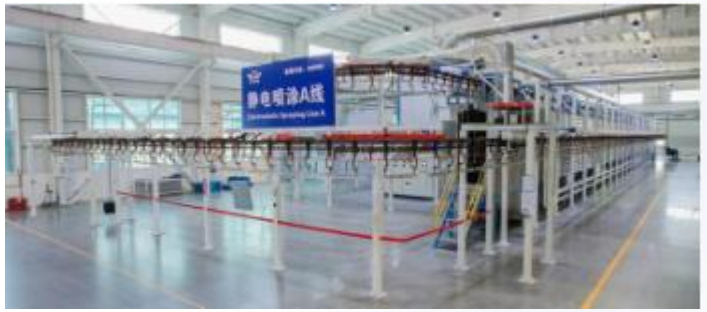
CNC turret punch press

24 CNC Bending Machine

14 CNC Laser Cutting Machine

6 CNC turret punch presses

Automatic electrostatic spraying line





Electrostatic spraying line

3 electrostatic spraying lines

400m long/ production line

RISING BuildTech

Strength in production and manufacturing

Phase II plant area: Workshop 1- Heat exchanger processing workshop



CNC high-speed fin punch



Automatic tube expanding equipment



Automatic pipe bending machine



Automatic welding equipment



Negative pressure brazing chamber



Heat exchanger production line

Strength in production and manufacturing

22 production line

12 AGV production line

5 liquid cooling temperature control production lines

4 air cooling temperature control production lines

1 RGV production line













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Manufacturing Line for Energy Plant Battery Storage Systems



Digital Factory Construction



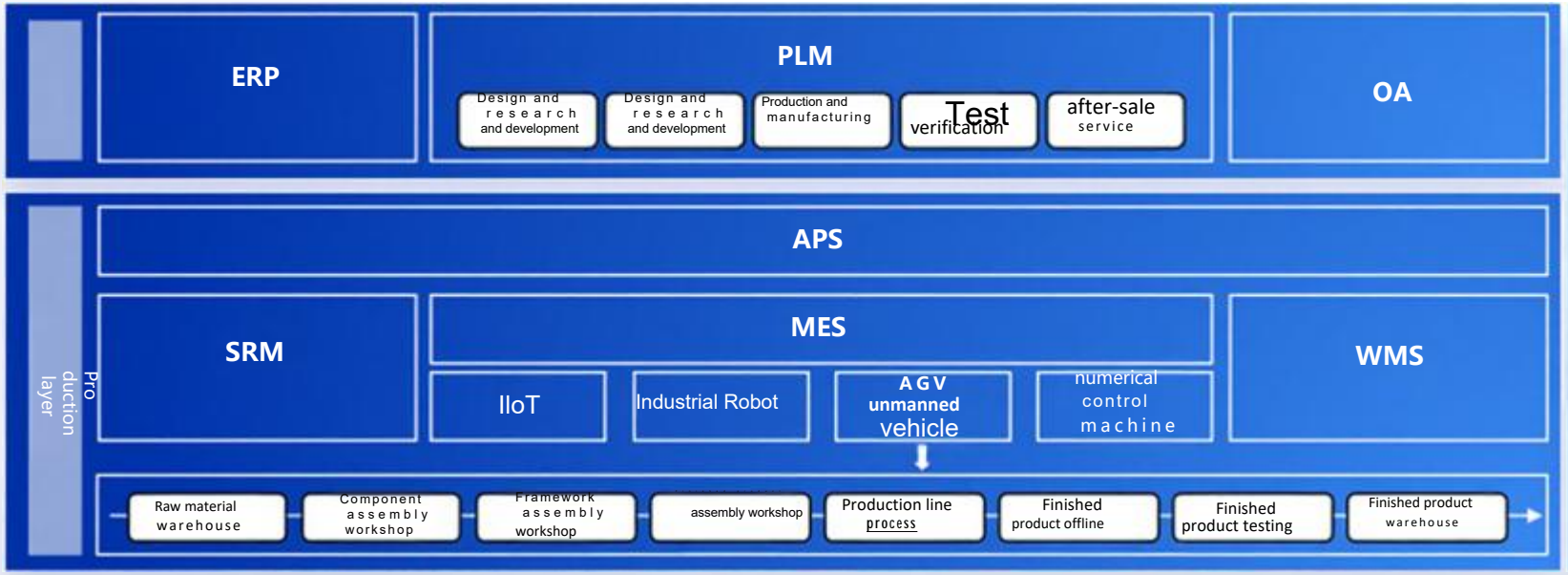
The construction of digital factories is an important driving force for the transformation and upgrading of the manufacturing industry

Deep integration of various links such as production, operation, and management with digital, networked, and intelligent technologies

Increase production and efficiency

Ensuring quality

Energy conservation and environmental protection





Quality Control

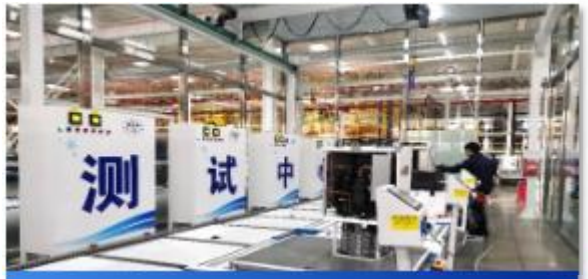
Performance testing before leaving the factory covers all production lines



Quality Inspection Room



Product Performance Testing Center



Product Performance Testing Center


Product Performance Testing Center

Implementing 5S fine management and solidly promoting system construction

Import IATF16949 Automotive Quality Management System Standard

Introducing advanced inspection and testing instruments

Building an SRM Supplier Management System

RISING BuildTech

Product System

pre water cooling unit



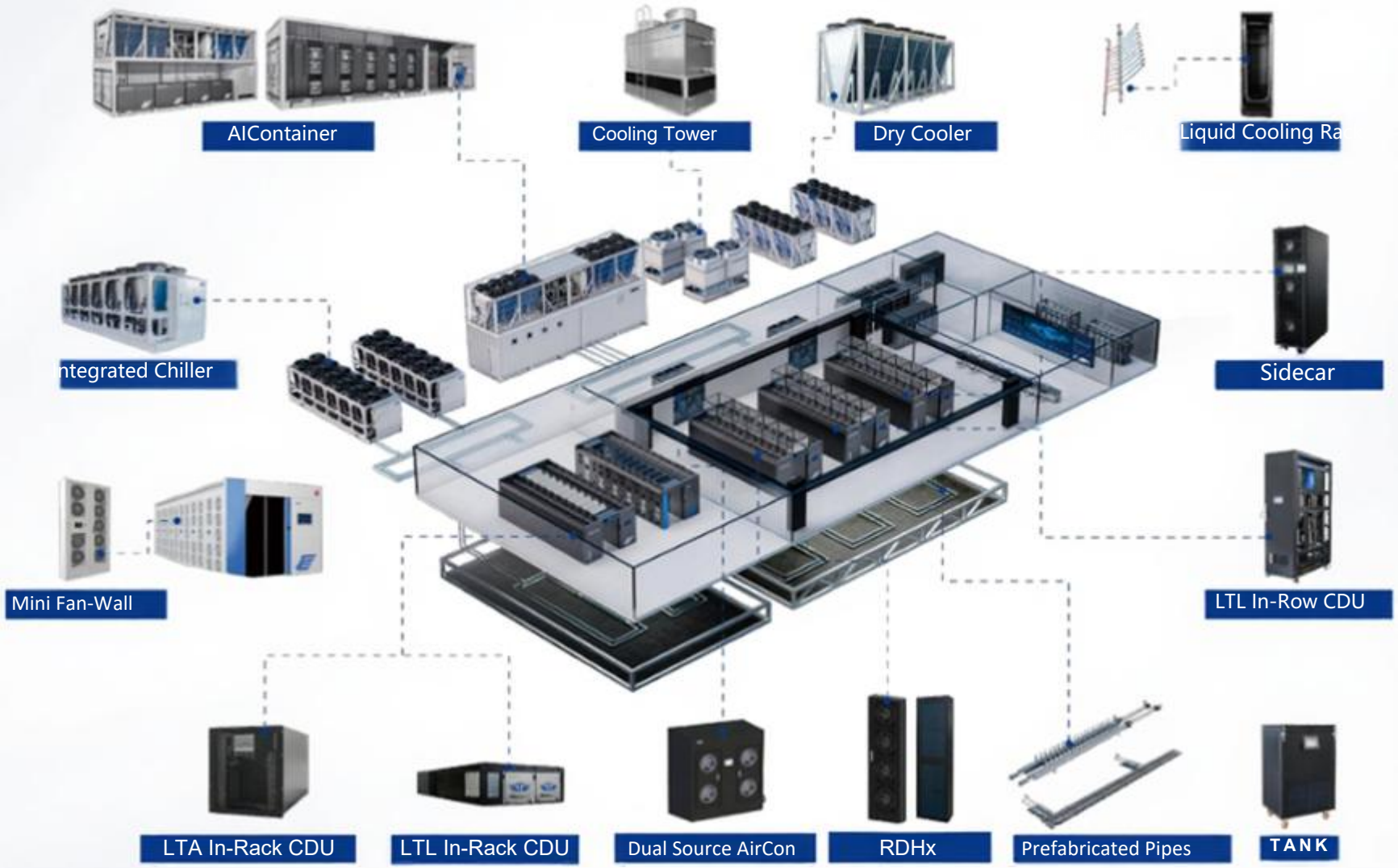
industrial air condition







AIDC Highly Efficient And Density Air Cooling/Liquid Cooling Solutions



Product Introduction: Data Center Temperature Control Products



In-Row CDU



In-Rack CDU



Immersion TANK



Dry cooler



Integrated Chiller



Mini Fan-wall



RDHx



Dual System
Air Conditioner



Chilled water precision
air conditioning



Freon pump precision
air conditioning



Air-cooled Room-Level (Freon Pump)
Precision Air Conditioner (7.5-120kW)

High-Density Air-Cooling Solution

Yajiang No.1 Intelligent Computing Center Project





Cooling Capacity: 35kW per Rack
Cooling Source: Dry Cooler and Integrated Chiller
6 sets of Modular DC (20 Racks per Modular), 55 Chilled Water-based Mini Fan-wall in total.
Annual PUE: less than 1.2

High-Density Air-Cooled Precision Air Conditioner Application

Erdos No.7 Intelligent Computing Center Project





Nearly 20,000 square meters, three floors above ground with a total height of 19.6 meters
Designed to meet the national Grade A standard Number of cabinets: 1,837
Total number of air conditioners: 342 sets
Computer Room: Air-cooled fluorine pump in-row air conditioner with hot aisle containment
Electrical room: In-Room air-cooled fluorine pump air conditioner

Liquid Cooling System Application Case

Erdos No.7 Intelligent Computing Center Project

Project Introduction:

- Two liquid-cooled data centers in the data center building
- Each data center is equipped with 32 liquid-cooled cabinets of 44kW, with 80% of the heat generated by the cabinet being dissipated by cooling water
- Total 9 dry coolers with 8 on duty and 1 standby.
- Cooling Capacity of dry cooler: 650kW, with a built-in centrifugal atomization spray system











Liquid Cooling Product Application Case - Dry Cooler

Overseas Intelligent Data Center Project





10 Dry Coolers with wet film , Cooling Capacity per Dry Cooler: 1028kW/2437kW.
Liquid in/out temp: 47/62℃ (40% ethylene glycol solution);
Air inlet temp: 27.6℃ (based on max dry bulb temp: 45℃, max wet bulb temp: 24.9℃, air inlet dry bulb temp after humidification: 27.6℃).

Immersion Cooling System Project

A Liquid Cooling Exhibition Hall in Shanghai

Project Name:
Shanghai Qingpu District Liquid Cooling Exhibition Hall Project

Location: Shanghai

Equipment:

Dry cooler, pump station, primary pipeline, secondary pipeline, manifold, CDUs, Immersion TANK

The minimum comprehensive PUE can reach 1.08









Factory-Prefabricated | On-Site Assembly | One-Stop Turnkey Delivery

Liquid Cooling System Application Case

A oversea Client



LTA Sidecar CDU 150kW
- Up to 90kW for single rack
- Up to 155kW for double-wide

An overseas client from Brazil



Location: Sao Paulo, Brazil, specializing in IT and data center business

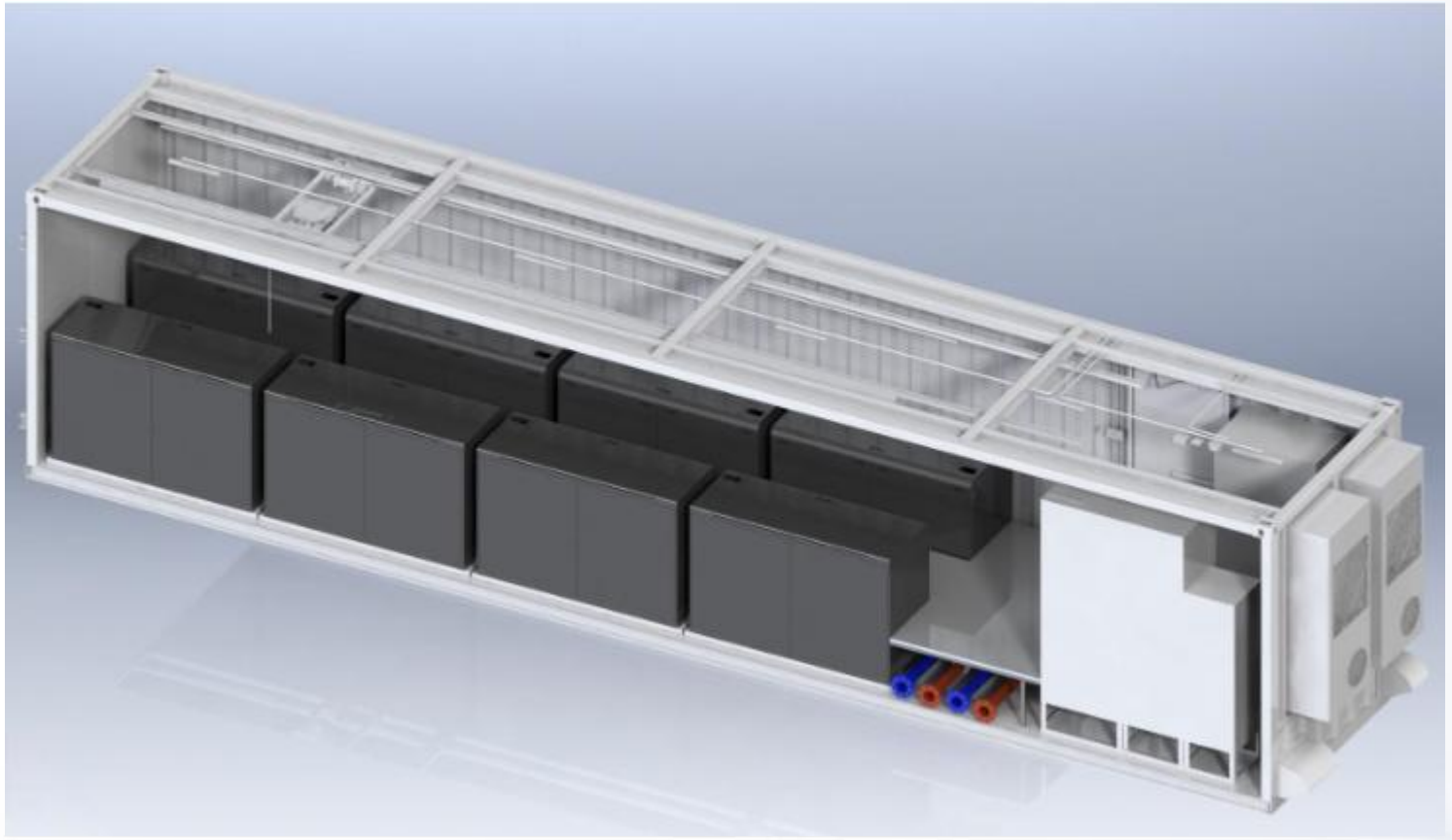
- 50kW In-Rack LTL CDU
- Manifold: 40x40mm
- 20 ports with UQD 04

RISING BuildTech

Container Application Case

A Domestic Client's Containerized Computing Power Module

- 40ft Container
- Includes design, modeling, and assembly
- Integrated systems: cooling, cabinets, power environment monitoring, power distribution, fire protection, etc.



Container Application Case

Chengdu Xingyuan Cloud Intelligent Data Center Project — Container Pump Station



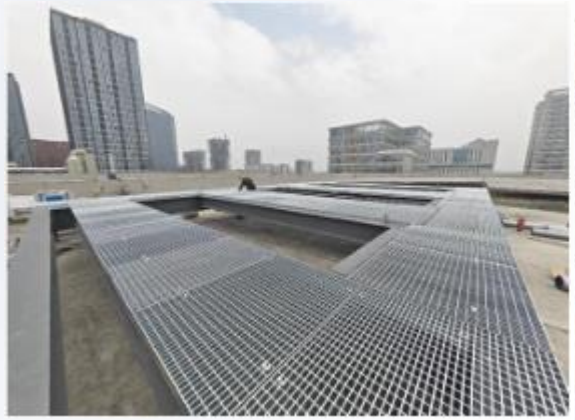


The Pump Station adopts 40ft Containerized design.
Integrated all key components such as pumps, control cabinets and water treatment equipment.
It is installed and arranged on the roof, without occupying the internal space of the Data Hall.

RISING BuildTech

Liquid Cooling Project - Turnkey Delivery

Chengdu Xingyuan Cloud Intelligent Data Center Project - EPC Turnkey Project









The air-liquid hybrid cooling project can support a computing capacity of **3000P**.
It is an EPC general contracting project covering disciplines including decoration, HVAC, and electrical systems.

RISING BuildTech

Modular Data Center

ADEO Engineering Company' s Modular Data Center Project in Bangkok, Thailand

TONGFEI Solution:
dual-row micro modules
+
air-cooled in-row precision air conditioners







Modular Data Center



Modular Data Center for a client in Tianjin

Project Requirements

Replace the existed data hall to ensure low-PUE, stable operation.

Solution

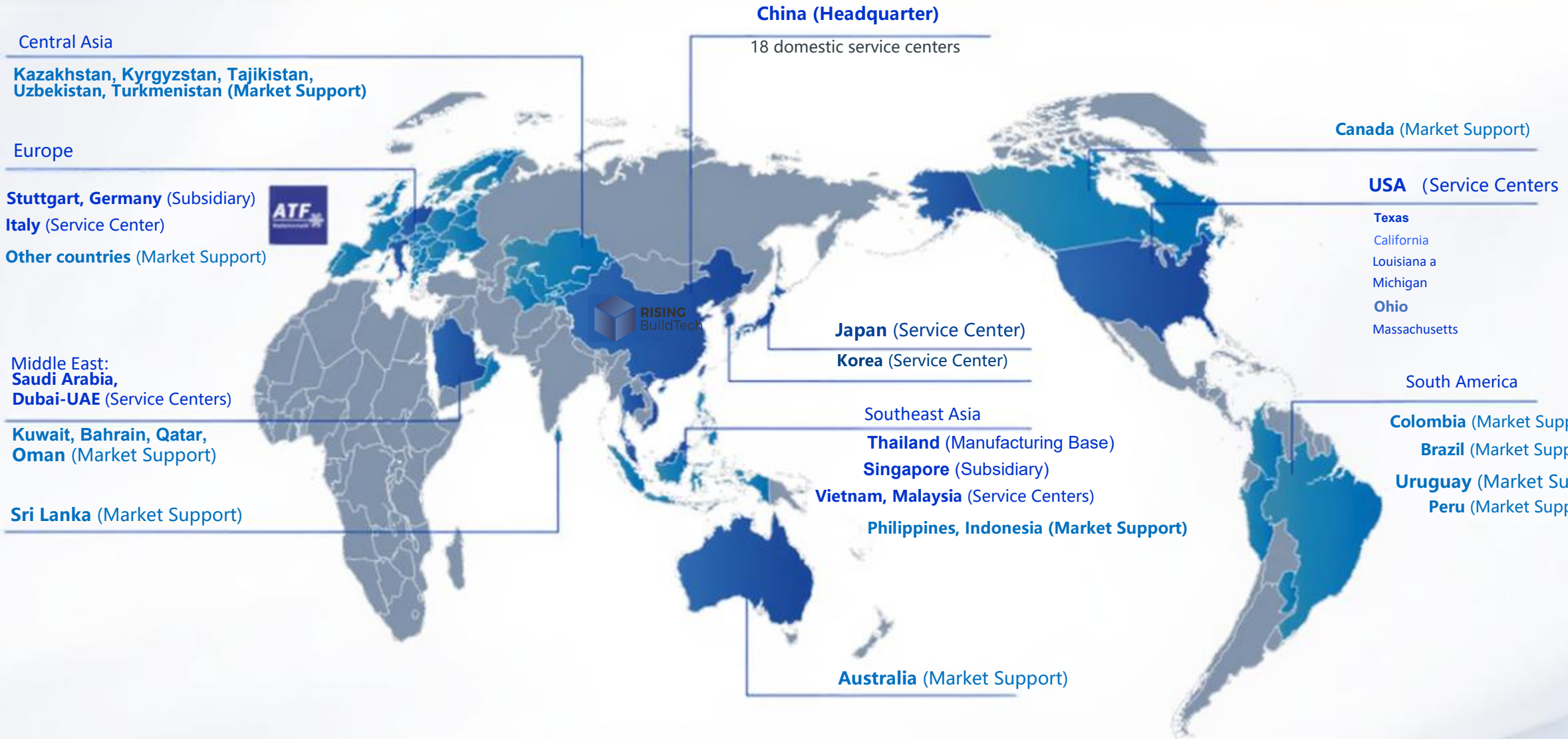
Comprehensive lifecycle solution covering overall site planning, data-center design, on-site construction & commissioning, O&M, and future expansion.

Equipment package for this phase: 11 server racks + 1 precision in-row PDU cabinet + 2×60 kW in-row precision air-conditioners, completed with a 32-inch interior display and a 43-inch entrance screen for real-time visualization. An automatic door integrated with a four-in-one access-control system satisfies all IT-security requirements.

Customer Value

- Open, unified physical and communication interfaces ensure seamless integration with the customer' s existing systems, delivering a higher-efficiency, premium-looking data center.
- Fully customizable solutions and rapid deployment enable "zero-touch" operations and minimal time-to-value.
- Multi-layer intelligent monitoring and management satisfy the customer' s digital-transformation and information-security requirements.

Global Data Center Service & Support Network



RISING BuildTech

Market services

18 service outlets





审图号：05（2022）4309号
本地图规形以上信息的世界地图改色制作

Headquarter and Manufacturing Base

It covers an area of 220,000m²

Product Assembly Line 21

Annual production capacity: up to 300,000 units/sets

TONGFEI Energy Plant
Energy Storage Thermal Management System Plant

TONGFEI Equipment Plant
Precision Intelligent Temperature Control Equipment Plant

TONGFEI Precision Plant
Intelligent Fluid Control Equipment Plant



Thailand Company

Tongfei Thailand Co., Ltd | บริษัท tungเฟย (ประเทศไทย) จำก

- Located in Rayong, Thailand
- Chinese technologies with local manufacturing
- A world-class manufacturing and service center from Southeast Asia to the whole world.













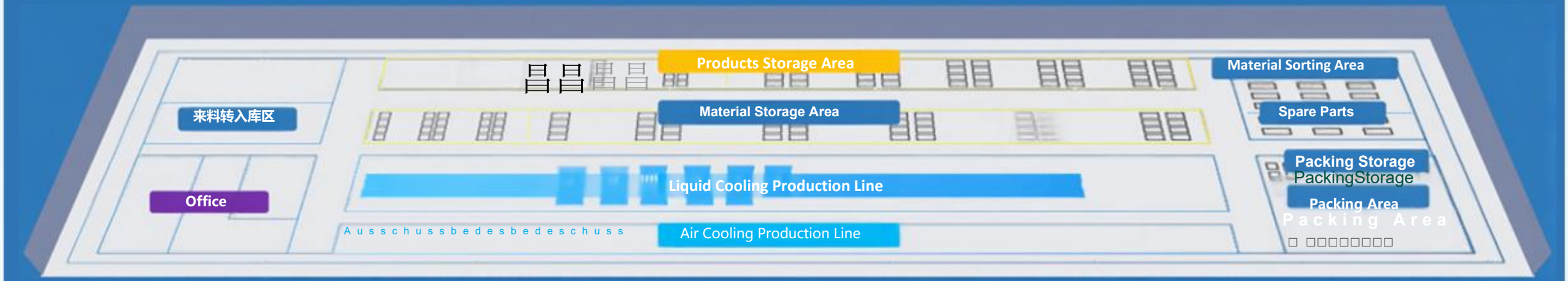
Manufacturing Capability of Thailand Base

$3200m^2$ Annual production capacity: up to 34,500 units/sets

From **product export** to a new stage of **localized "manufacturing + services"**

Improve customer response speed and loyalty

Accumulate operational experience for subsequent layout in core markets such as Europe and North America



Product description

Energy Storage Industry — application scenarios of liquid cooling solutions



Linzhou High Altitude Energy Storage Power Station in Xizang
5MWh energy storage project



Harbin Guoneng Tonghe is extremely cold
15MW/MWh energy storage project



Sunlight Energy Storage Project in California, USA



Midland, USASPEARMENT Energy Storage Project



High altitude of Qushui PV power station in Xizang
100MW/200MWh energy storage project



Dongming Green Energy Power Station
100MW/200MWh energy storage project



China Energy Construction Guangxi Banchong
200MW/400MWh energy storage project



Anhui Huaneng Lacquer Garden
100MW/100MWh energy storage project

RISING BuildTech

Product description

Application Cases of Intelligent Equipment Manufacturing Industry























RISING BuildTech

Product description

Energy Storage Industry — application scenarios of air cooling solutions



FANCE POST, Dallas, USA
129MW/258MWh energy storage project



Fort Wayne, Indiana, USA
Energy storage projects



Sapporo City, Hokkaido, Japan
8MWh energy storage project



Huadian Dailiji Wind Farm
100MW/200MWh energy storage project



Urasumu 60MW/120MWh
Energy Storage Project



Jingneng Xuanhe 150MW/300MWh
Energy Storage Project



Jinko Solar 30MW/60MWh
Energy Storage Project



PetroChina Qingquan PV Power Plant
40MW/80MWh Electrochemical
Energy Storage Power Plant Project

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Product Application

Application scenarios in Electric and Electronic Industry



Qixia Project



CGN Laizhou Offshore Wind Power Project



Xing'an League Nuclear Wind Farm



Shache County Project





SPIC
Heituhe PV Power Station Booster Station

High Power High Voltage SVG Water Cooling Project



China Three Gorges
Chengzishan Wind Farm



Guyuan 400+Photovoltaic Project



Kongjiayan Wind Farm

Product Application

Oil and Gas Storage and Transportation Industry Application Cases



CNPC Jichai Power

Jilin Oilfield Carbon Dioxide Long-Distance Pipeline Project



PipeChina West-East Gas Pipeline II

Fuzhou Compressor Station External Cooling System



PipeChina West-East Gas Pipeline II

Pengyang Compressor Station External Cooling Systen

Future Prospect

Become a world-class industrial temperature control expert

Green technology strategy:

Application of New Refrigerants with GWP < 150, such as R454C, R32, R290, R513A, etc.

Energy-saving technology strategy:

Development of efficient heat exchangers with heat transfer coefficient > 120W/m2·K, and variable frequency refrigeration systems with energy efficiency ratio > 4.0.

Efficient cooling system:

Development of an immersion efficient cooling system based on fluorinated fluids.



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Thank You!

Precision Temperature Control

Ingenious Smart Manufacturing

GuangZhou RISING BuildTech CO., LTD.