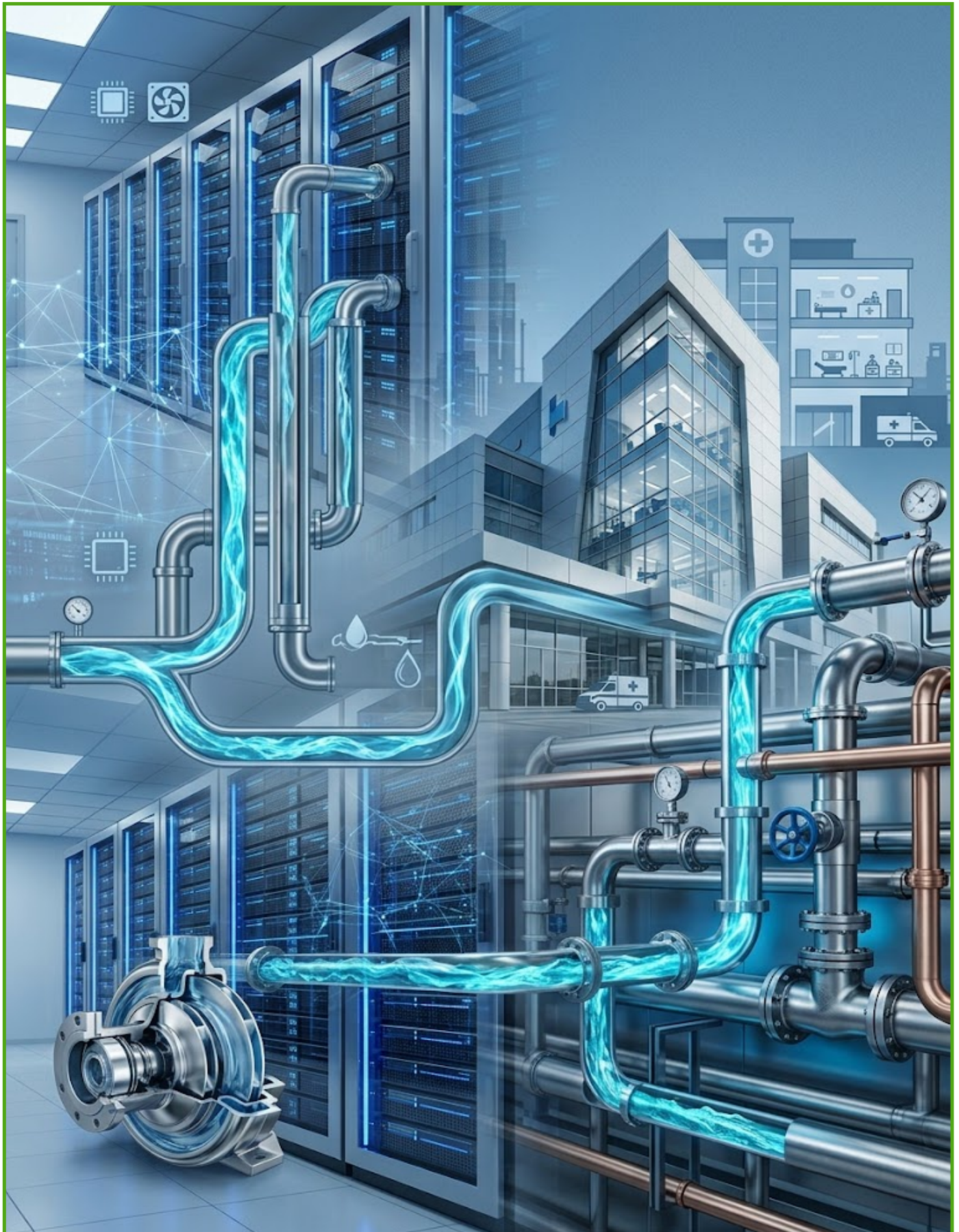




IGAWARA CORPORATION PTE LTD

井河原私人有限公司

AQUACOOl PUMPS DIVISION



QUALITY POLICY

We deliver bias-free customer satisfaction
through the effective implementation of
ISO 9001 and **AS9120**
Compliant quality systems

We shall:



Never compromise quality or put profit above our quality management system.



Conduct stringent checks on the reliability of customers and vendors.



Only engage in businesses where long term relations with customers and vendors are sustainable for the mutual benefit of all parties.



Adhere to customer requirements and specifications to achieve total customer satisfaction.

Service with a Difference

- Delivering service that consistently exceeds expectations
- Providing comprehensive, end-to-end integrated solutions
- Ensuring reliable performance for critical operations
- Driven by expert engineering and strict quality control
- Manufactured in compliance with global ISO standards
- One trusted partner from concept to completion
- Proven track record across international projects
- Extensive experience in global trade and logistics
- Delivering value through cost efficiency and reliability
- Rapid response with solutions tailored to your needs



OUR POSITIONING

WATER PUMPS FOR THE INFRASTRUCTURE OF THE FUTURE

Modern infrastructure demands more than conventional water pumping.

AI data centers, hospitals, water treatment facilities and critical infrastructure require reliable, energy-efficient water pumps for continuous cooling, circulation, water supply and process operation.

We provide application-driven water pump solutions engineered for demanding infrastructure projects — from cooling water circulation to critical water supply and treatment systems.

OUR FOCUS

- **AI Data Centers**
Cooling Water & Liquid Cooling Pumping Solutions
- **Hospitals & Critical Facilities**
Water Supply, HVAC & Cooling Water Pumps
- **Water Treatment**
Raw Water, Process Water & Treated Water Pumps
- **Municipal Water Systems**
Water Supply, Distribution & Pumping Infrastructure
- **Industrial Water Systems**
Cooling, Circulation & Process Water Pumps
- **Global Projects**
Technology Sourcing & International Delivery

WHAT WE DELIVER

- **Application-Driven**
Solutions Tailored to Your Needs
- **Energy-Efficient**
Reducing Operating Costs & Long-Term Carbon Footprint
- **Reliable Performance**
Stable, Durable & Long-Life Operation
- **Customized Configuration**
Flexible Adaptation to Working Conditions
- **Complete Solutions**
Integrated One-Stop Project Delivery & Engineering Support
- **Smart & Connected**
IoT-ready controls, remote monitoring, predictive maintenance, data-driven optimization



WATER PUMP TECHNOLOGIES

MULTIPLE TECHNOLOGIES · MULTIPLE SOURCES · ONE PARTNER

We provide a wide range of water pump technologies and match the most suitable pump to each project based on fluid, flow, head, operating conditions, efficiency and budget.

WATER PUMP TYPES

1. END-SUCTION CENTRIFUGAL PUMPS

Single-Stage · General Purpose · High Flow

Applications: Cooling · Chilled Water · HVAC · Water Supply · Industrial

2. DOUBLE-SUCTION SPLIT-CASE PUMPS

High Flow · High Efficiency · Robust Construction

Applications: Chilled Water Plants · District Cooling · Municipal Water · Fire Pumps

3. VERTICAL MULTISTAGE PUMPS

High Head · Compact Footprint · High-Pressure Applications

Applications: High-Rise Water Supply · Pressure Boosting · RO Systems · Boiler Feed

4. HORIZONTAL MULTISTAGE PUMPS

High Head · High Pressure · Industrial Duty

Applications: Industrial Water · Boiler Feed · RO · Long-Distance Transfer

5. INLINE PUMPS

Compact · In-Line Installation · Space Saving

Applications: HVAC · Chilled Water · Heating Water · Process Circulation

6. CANNED MOTOR PUMPS

Seal-Less · Hermetically Enclosed · Low Leakage Risk

Applications: AI Data Center CDU · Dielectric Cooling · High-Purity Water · Cooling

7. MAGNETIC DRIVE PUMPS

Seal-Less · Magnetic Coupling · Fluid Compatible

Applications: Corrosive Fluids · Sensitive Fluids · Chemical Processing · Thermal Fluids

8. CLOSE-COUPLED PUMPS

Compact · Direct-Coupled · Easy Installation

Applications: General Water Supply · HVAC · Drainage · Irrigation

9. FIRE PUMPS

Horizontal Split-Case · End-Suction · Vertical Multistage

Applications: Fire Hydrant · Sprinkler · Data Centers · Hospitals · Industrial

OUR SOURCING ADVANTAGE

We source specialized water pump technologies and match the right solution to every application — independent of brand or technology.

WATER PUMPS FOR AI DATA CENTERS

LIQUID COOLING FOR HIGH-DENSITY COMPUTING

AI computing is driving rapidly increasing power density and heat loads. As cooling requirements evolve, liquid cooling is becoming increasingly important for high-density data centers.

Pumps provide the continuous circulation required to transfer heat from GPUs, CPUs and server racks to the facility cooling system.

LIQUID COOLING SYSTEM ARCHITECTURE

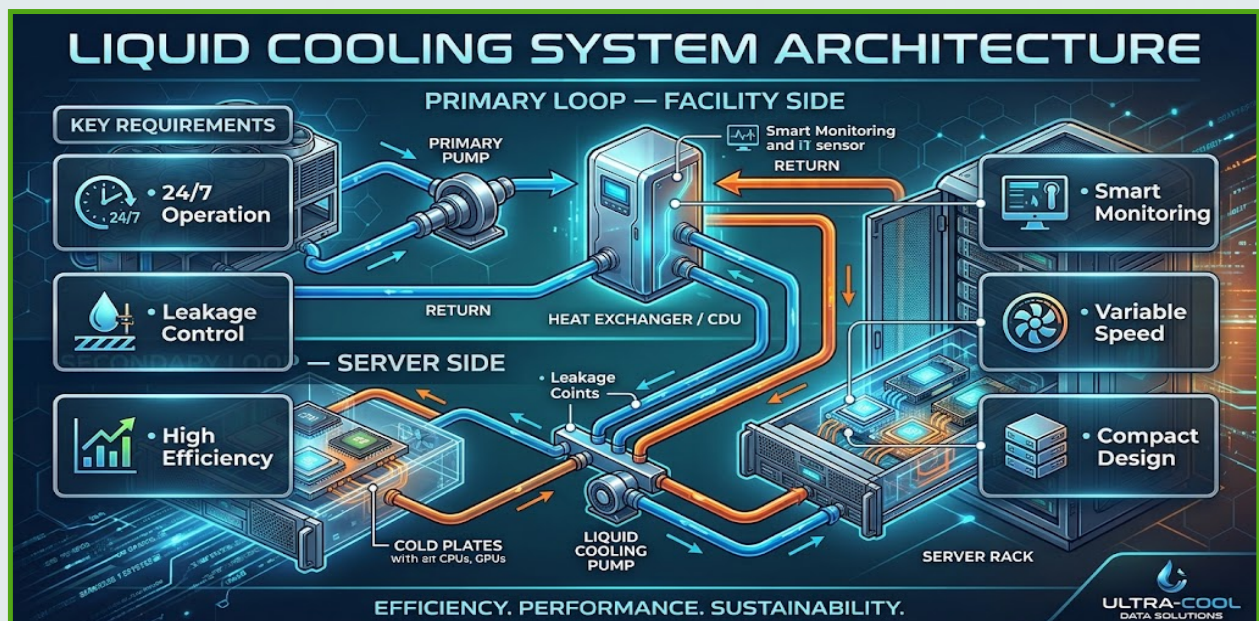
- PRIMARY LOOP — FACILITY SIDE
CHILLER → PRIMARY PUMP → HEAT EXCHANGER / CDU → RETURN
- SECONDARY LOOP — SERVER SIDE
CDU → LIQUID COOLING PUMP → SERVER RACK → COLD PLATE → RETURN

LIQUID COOLING PUMP TECHNOLOGIES

- CANNED MOTOR PUMPS
Zero leakage · Compact · High reliability
- MAGNETIC DRIVE PUMPS
Seal-less · Fluid compatible
- CENTRIFUGAL PUMPS
Primary & secondary circulation
- COMPACT ELECTRONIC PUMPS
Space-constrained CDU applications

APPLICATIONS

Centralized · Distributed · In-Row · Rack CDU · Direct-to-Chip · Immersion Cooling



WATER PUMPS FOR HOSPITALS

RELIABILITY WHERE CONTINUITY MATTERS

Hospitals operate 24/7 and depend on reliable pumping systems for water supply, HVAC, fire protection and wastewater management.

HOSPITAL WATER PUMP SOLUTIONS

- **WATER SUPPLY**

Pump Types: Multistage · End-Suction · Booster Systems

Applications: Potable Water · Building Supply · Pressure Boosting · Water Transfer

Key Requirements: Constant Pressure · Energy Efficiency · 24/7 Reliability

- **HVAC & COOLING**

Pump Types: Inline · End-Suction · Multistage · Double-Suction

Applications: Chilled Water · Cooling Water · HVAC Circulation · Cooling Towers

Key Requirements: High Efficiency · Low Vibration · Continuous Duty

- **FIRE PROTECTION**

Pump Types: Electric Fire · Diesel Fire · Jockey Pumps

Applications: Fire Hydrant · Sprinkler Systems · Emergency Water Supply

Key Requirements: Automatic Start · Duty / Standby · NFPA / UL / FM

- **WASTEWATER & DRAINAGE**

Pump Types: Submersible · Sewage · Grinder · Drainage

Applications: Sewage · Drainage · Wastewater Transfer · Medical Facilities

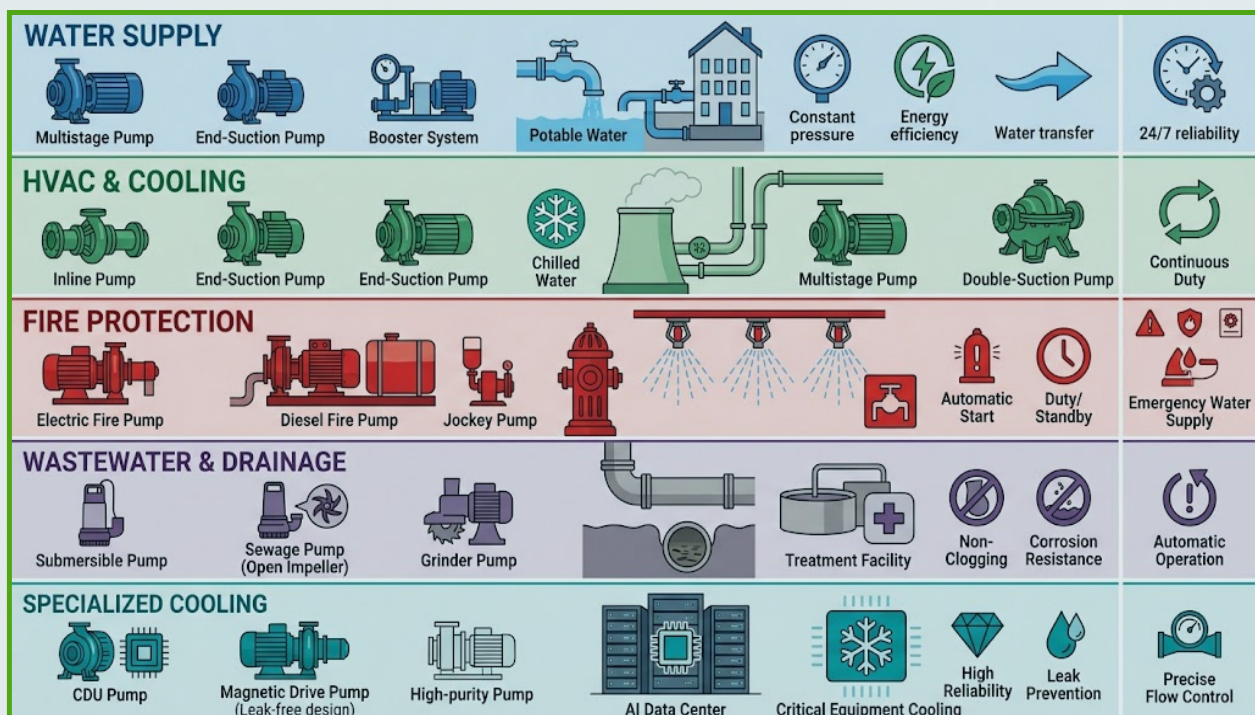
Key Requirements: Non-Clog · Corrosion-Resistant · Automatic Operation

- **SPECIALIZED COOLING**

Pump Types: CDU Pumps · Magnetic Drive · High-Purity Pumps

Applications: AI Data Centers · Critical Equipment · Specialized Cooling

Key Requirements: High Reliability · Leak Prevention · Precise Flow Control



SOURCING & DELIVERY

FROM REQUIREMENT TO GLOBAL DELIVERY

RIGHT TECHNOLOGY · RIGHT SOURCE · RIGHT VALUE.

01 · SOURCE

GLOBAL + CHINA SOURCING

Qualified manufacturers · Multiple technologies · Competitive supply options

02 · SELECT

APPLICATION-BASED EVALUATION

Flow · Head · Fluid · Pressure · Temperature · Efficiency · Standards

03 · CONTROL

TECHNICAL & QUALITY COORDINATION

Specifications · Drawings · Testing · Certifications · Inspection

04 · DELIVER

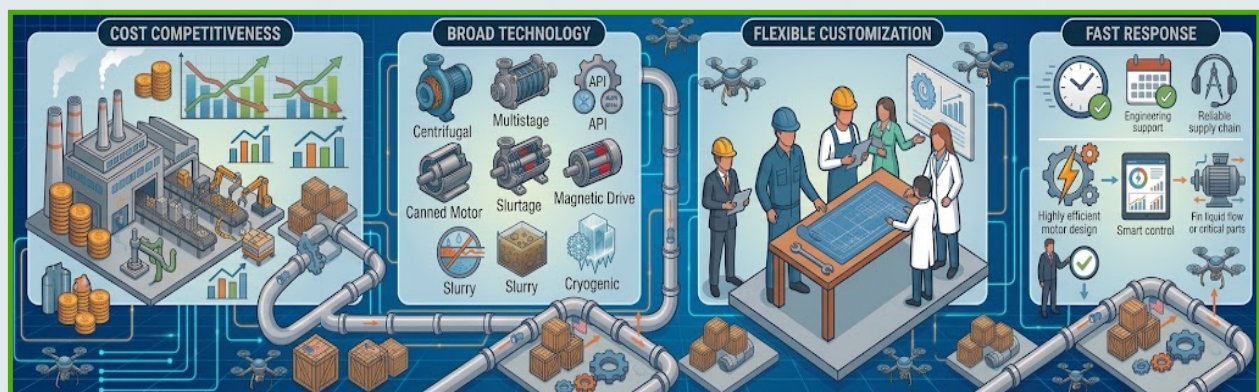
GLOBAL PROJECT EXECUTION

Packaging · Documentation · Logistics · Customs · Delivery

WHY CHINA WATER PUMP TECHNOLOGY

China's water pump technology has matured rapidly, offering reliable performance, advanced engineering and competitive value as a credible alternative to established global suppliers.

- **COST COMPETITIVENESS**
Efficient manufacturing · Competitive pricing · Scalable production
- **BROAD TECHNOLOGY**
Centrifugal · Multistage · API · Magnetic Drive · Canned Motor · Slurry · Cryogenic
- **FLEXIBLE CUSTOMIZATION**
Materials · Configuration · Performance · Project-specific requirements
- **FAST RESPONSE**
Engineering support · Shorter lead times · Strong supply-chain capability
- **TECHNOLOGY PROGRESS**
High efficiency · Smart control · Advanced sealing · Specialized cooling



GLOBAL PROJECT REFERENCES

- 01 · MY06 HYPERSCALE DATA CENTER
PUMP: Liquid Cooling · CDU Pumps
APPLICATION: Direct-to-Chip · Hybrid Liquid/Air Cooling
FEATURE: High-Density Computing · PUE ≤1.15
INTERNATIONAL BENCHMARKS: Grundfos · Xylem
- 02 · MICROSOFT DATA CENTER — USA
PUMP: Liquid Cooling · Primary Loop Pumps
APPLICATION: AI Data Centers · High-Density Computing
FEATURE: Direct-to-Chip Cooling · High Reliability · Continuous Operation
INTERNATIONAL BENCHMARKS: Grundfos · Xylem · KSB
- 03 · GOOGLE DATA CENTER — USA
PUMP: Shielded Pumps · Canned Motor Pumps · CDU Pumps
APPLICATION: AI Data Centers · Direct-to-Chip Liquid Cooling
FEATURE: Zero Leakage · High Reliability · 24/7 Operation
INTERNATIONAL BENCHMARKS: KSB · Hermetic · Grundfos
- 04 · NVIDIA AI PLATFORM — USA
PUMP: Electronic Shielded Pumps · Liquid Cooling Pumps
APPLICATION: GB200 / GB300 · AI Server Cooling
FEATURE: Zero Leakage · Long Service Life · High-Temperature Operation
INTERNATIONAL BENCHMARKS: Vertiv · CoolIT · Grundfos
- 05 · UAE SEAWATER DESALINATION PROJECT
PUMP: High-Pressure · Centrifugal Pumps
APPLICATION: Seawater Desalination · Water Transfer
FEATURE: High Pressure · Corrosion-Resistant Materials
INTERNATIONAL BENCHMARKS: KSB · Flowserve · Xylem
- 06 · SINDHUPALCHOK HOSPITAL RECOVERY PROJECT
PUMP: Water Supply · Fire Pumps · Transfer Pumps
APPLICATION: Hospital Water Systems · Pump House
FEATURE: 50-Bed Hospital · Water Treatment · Critical Infrastructure
INTERNATIONAL BENCHMARKS: Grundfos · KSB · Armstrong
- 07 · GERMANY · BATTERY MANUFACTURING
PUMP: Magnetic-Drive · Vortex Pumps
APPLICATION: Lithium Battery Separator Coating
FEATURE: Customized Configuration · Leak-Free · Specialized Process Fluids
INTERNATIONAL BENCHMARKS: Iwaki · Finish Thompson · Sundyne
- 08 · SOUTH KOREA · SEMICONDUCTOR CHILLER
PUMP: Magnetic-Drive · Canned Motor Pumps
APPLICATION: Semiconductor Cooling · TCU Systems
FEATURE: Zero Leakage · High Purity · Stable Circulation
INTERNATIONAL BENCHMARKS: Iwaki · Ebara · Grundfos
- 09 · JAPAN · RO WATER TREATMENT
PUMP: Vane Pumps · DC Pumps
APPLICATION: Reverse Osmosis · Water Treatment
FEATURE: Compact Design · Low Noise · Stable Operation
INTERNATIONAL BENCHMARKS: Ebara · Grundfos · Xylem
- 10 · NASA FLOOD CONTROL — USA
PUMP: Stainless Steel · Centrifugal Pumps
APPLICATION: Flood Control · Emergency Water Management
FEATURE: Corrosion Resistance · High Flow · Long Standby
INTERNATIONAL BENCHMARKS: Xylem · KSB · Flowserve

GLOBAL OFFICES 全球办事处

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OUR BUSINESS COVERAGE 我们的业务范围



Oil & Gas E&P



Petrochemical / Refineries



Aerospace



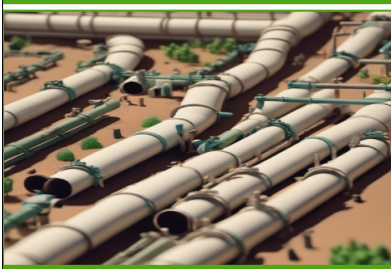
Energy Generation



Nuclear



Marine & Offshore



Cross Country Pipeline Projects



Automobile



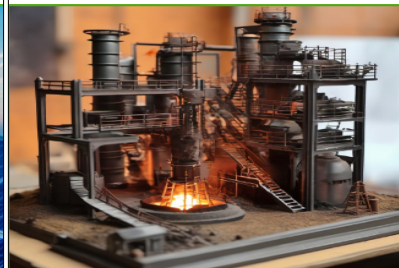
Water Treatment & Desalination Plants



Infrastructure



Renewable Energy



Smelting Plant



Precision Engineering Equipment



Data Center



Pulp & Paper



LNG



Construction Industry



Industry Plants



Chemical / Pharmaceutical Plant



Laser Cutting, Robot

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