



DBP

| professional | dedicated | concentrative |

**Dalian Deep Blue Pump**

# Company Presentation

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**大连深蓝泵业**  
DALIAN DEEP BLUE PUMP CO.,LTD

**Profile**

Capability |

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## Company Summary



**深蓝泵业**



Dalian Deep Blue Pump Co., LTD., founded in 1988, is a private joint-stock enterprise producing petrochemical, coal chemical, cryogenic pump and other key, high-end pumps.

- Area: 280,000 m<sup>2</sup>
- Total assets: 2.7 billion CNY
- Registered capital: 100 million CNY
- Number of employees: 519
- Technical engineers: 154
- Bank Credit Rating: AAA
- Pay taxes: 60 million CNY



**大连深蓝泵业**  
DALIAN DEEP BLUE PUMP CO.,LTD

**Profile**

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## History

- 1988, Dalian Second Acid-proof Pump Factory founded
- 1997, Dalian Deep Blue Pump co., Ltd founded
- 2003, build the testing station with capacity 3000KW
- 2006, Wafangdian Foundry factory founded
- 2009, Provincial enterprise technology center



- 2015, Chinese first cryogenic testing plant founded, which is the biggest scale in the world.
- 2017, Plant office promotion
- 2022, Plant workshop promotion, import advanced digital machining equipment

**Found**

**Development**

**Strengthen**

**Improve**

**Transcend**



**Innovation**

**Scientific and Technological Innovation**

**Investment**

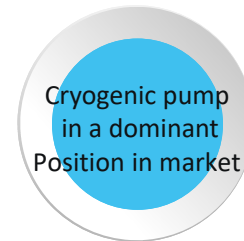


- R&D investment over 32 million CNY in 2024 year
- Integrated Product Development (IPD)
- Product Lifetime Management (PLM)

**Breakthrough**

- 2008, Localization of Millions of tons of oil refining reaction feed pump and power recovery turbine.
- 2010, Localization of high-pressure ammonium carbamate pump and high-pressure liquid ammonia pump for urea synthesis ammonia plant.
- 2013, The world's largest Shenhua 4 million tons coal to oil project has passed the appraisal of the hot potassium alkali lean liquid pump.
- 2016, The first large-scale LNG tank submerged pump in China has passed national level appraisal.
- 2018, Localization of quench oil pumps for large-scale ethylene plants and passing national appraisal.
- 2018, Obtained an order for Tianjin Petrochemical's 2.6 million tons residual oil hydrogenation 3800kW reaction feed pump, with all centrifugal pumps in the 10 million tons refining industry achieving localization.
- 2021, The annual sales of the low-temperature industry have exceeded 300 million yuan, with a market share of over 60%.
- 2022, Obtained the largest domestic order for 4300kW reaction feed pump unit.
- 2022, Localization of quench water pumps for large-scale ethylene plants, with all centrifugal pumps in the ethylene industry achieving localization.

**Contribution**





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## Application



**Petrochemical:**  
The main suppliers of major refineries, located in the top three, have solutions for all centrifugal pumps in millions of tons of oil refining and millions of tons of ethylene projects.



**Coal Chemical:**  
The leader of pumps in the coal chemical industry, whose products meet the pump demand of projects such as coal to methanol, coal to olefin, coal to glycol, coal to oil, synthetic ammonia and urea, and occupy an absolute advantage position in the market.



**International Trade:**  
Our products are exported to over 40 countries and regions including Asia, Africa, Europe, the United States, and Australia. Our proactive response mechanism can provide timely service and support to global users.



**Cryogenic and offshore:**  
The clean fossil energy natural gas industry has achieved international advanced levels in its products, with multiple series of products passing national certification and leading internationally, and a domestic market share of over 60%.



**Electric power generation:**  
It has a certain market share in nuclear power, thermal power, solar power and other industries, and its products cover various reactor types such as second-generation pressurized water reactor nuclear power plant, third-generation AP1000, CAP1400, EPR, fourth generation high-temperature gas cooled reactor, fast neutron reactor, etc.



**大连深蓝泵业**  
DALIAN DEEP BLUE PUMP CO.,LTD

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Cooperators



Our customers

**WOLONG** 卧龙电气南阳防爆集团股份有限公司  
WOLONG ELECTRIC NANYANG EXPLOSION PROTECTION GROUP CO.,LTD.

**HE** 佳木斯电机股份有限公司  
哈电集团 JIAMUSI ELECTRIC MACHINE COMPANY LIMITED

**HITACHI**  
Inspire the Next

**中密控股** john crane  
SINOSEAL HOLDING

**FLOWERVE**

**INPRO/SEAL**

**ABB**  
**SKF**

**WEG**  
**FAG**

**SIEMENS**  
MOTION & CONTROL  
**NSK**

**TECO**  
**SUND**  
崇德科技

**创明TOMY**  
POWER TRANSMISSION PRODUCTS

**Marland Clutch**  
Altra Industrial Motion

Innovation in Motion  
**TSUBAKI**

**CASC**  
中国航天

**schroeder**  
valves

**SCHROEDAHL**  
A subsidiary of CIRCOR International

**ELLIOTT GROUP**  
EBARA CORPORATION

**EMERSON**

**Bently Nevada**  
a Baker Hughes business

**ai.tek**  
instruments

**BALDOR**  
A MEMBER OF THE ABB GROUP

**DRESSER-RAND.**

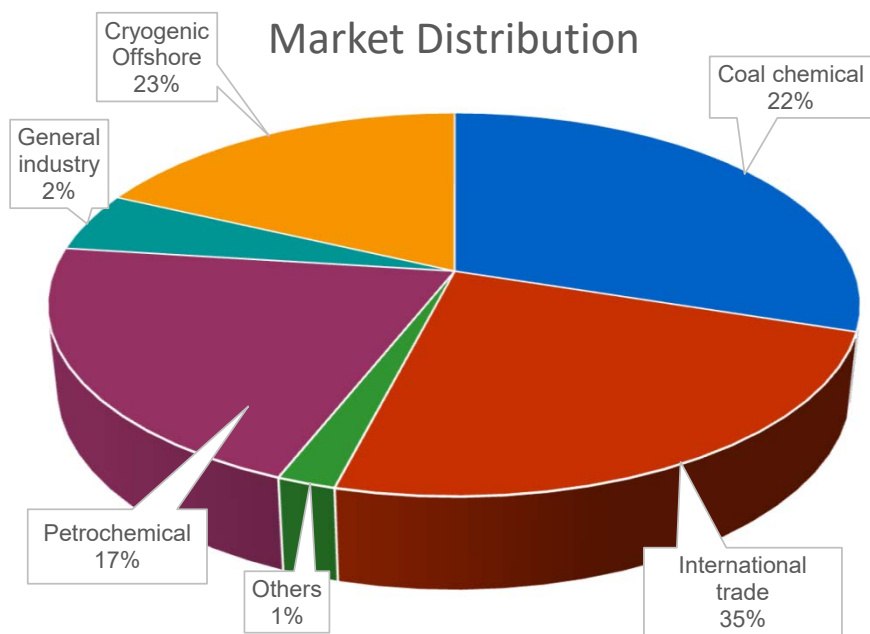
**Endress+Hauser** **E+H**  
People for Process Automation

Bringing energy and the environment into harmony.®

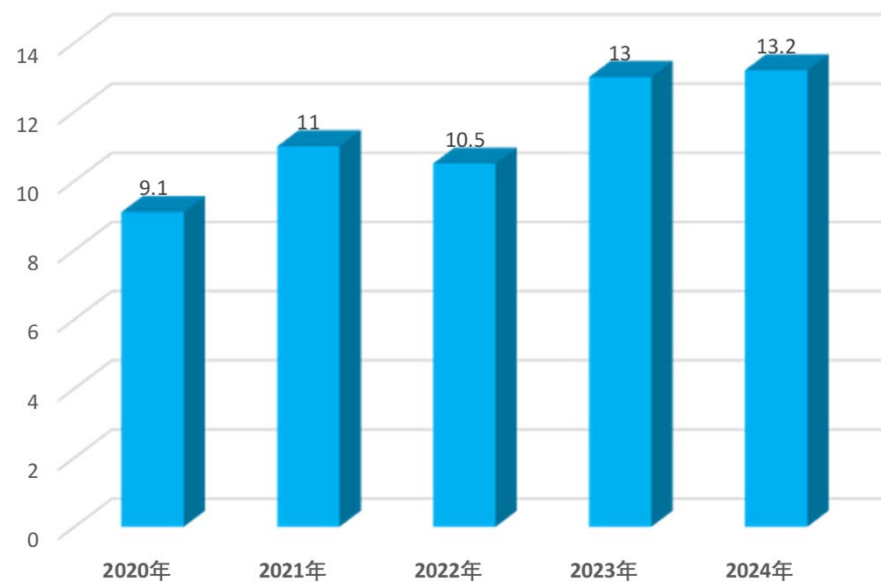
Our suppliers



## Market Distribution



## Sales Room (100 million in RMB)



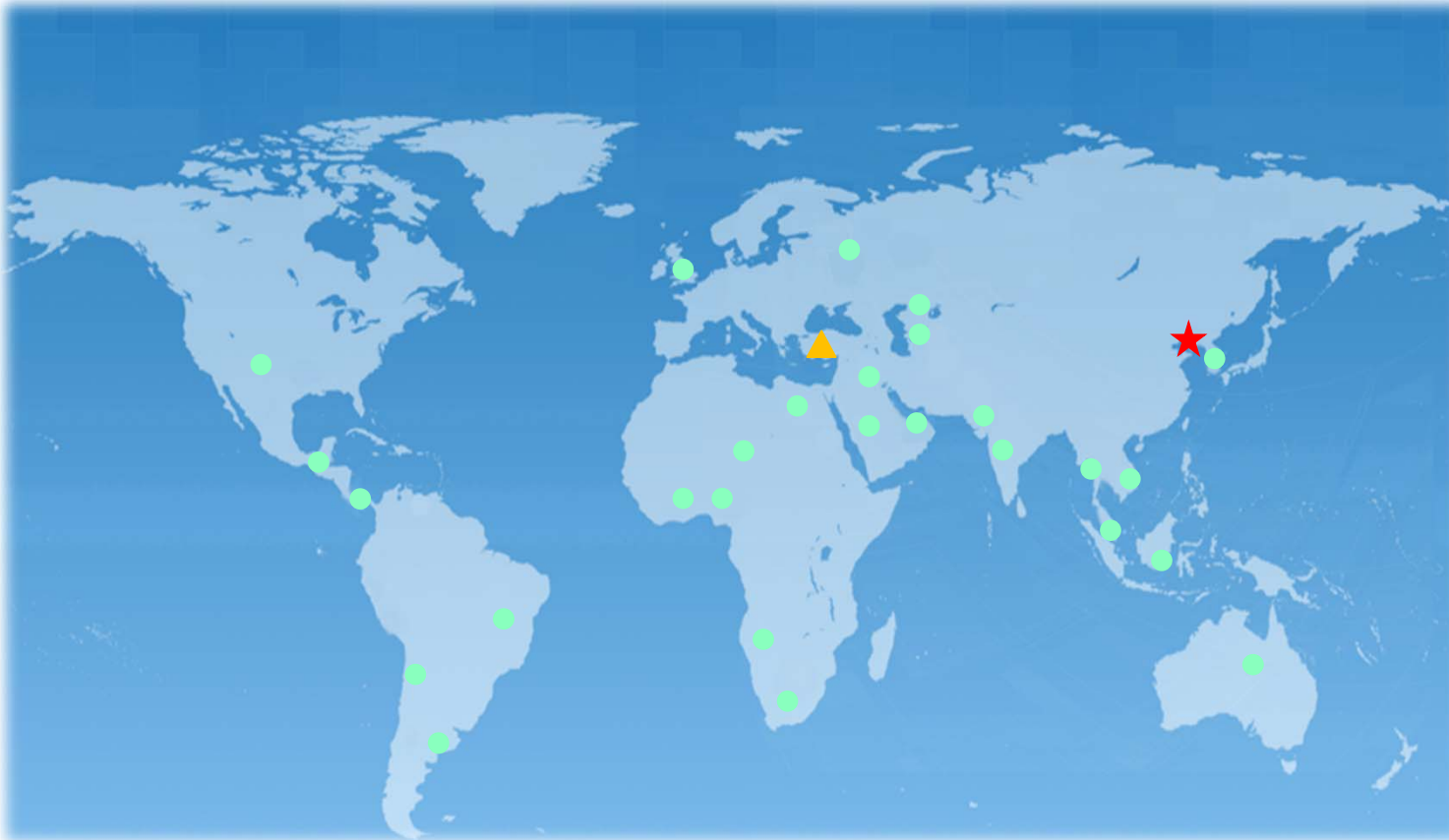


大连深蓝泵业  
DALIAN DEEP BLUE PUMP CO.,LTD

Profile

Capability | Product

## International

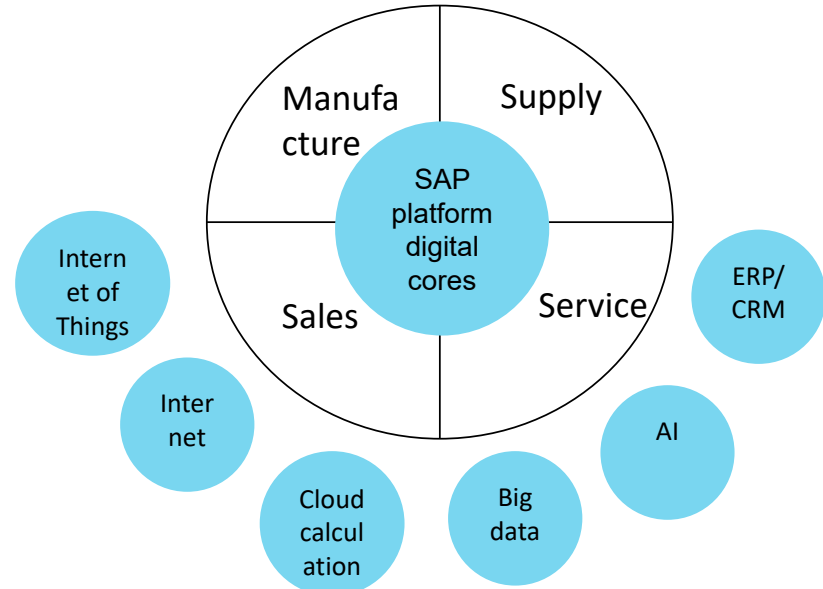


- ★ Head Office  
Provide technical consultation, business negotiations, design, manufacturing, inspection, testing, renovation, after-sales service, and other works
- ▲ Turkey Branch  
Provide technical consultation, business negotiations, manufacturing, inspection, testing, renovation, after-sales service, and other works
- Other sales networks  
Provide technical consultation, business negotiations, renovation, after-sales service, and other works

The sales network includes: South Korea, India, Pakistan, Vietnam, Thailand, Malaysia, Indonesia, Turkey, Russia, Britain, Australia, Kazakhstan, Uzbekistan, Saudi Arabia, United Arab Emirates, Iraq, Egypt, Nigeria, Ghana, Niger, South Africa, Angola, Brazil, Argentina, Chile, Mexico, Costa Rica, Colombia, etc



**Intelligent plant**



**CRM/Salesforce**

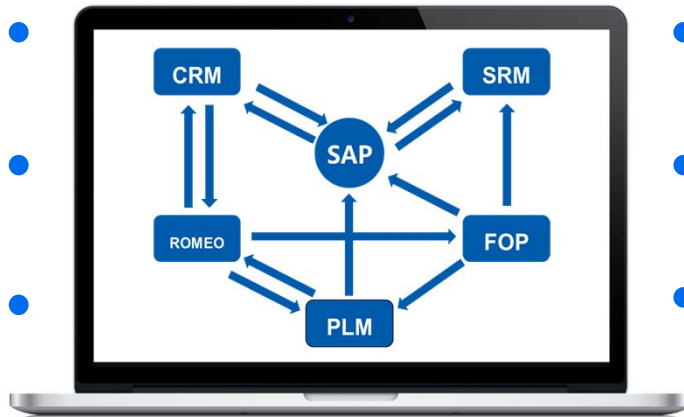
Customer Relationship Management System

**ROMEIO/REVALIZE**

DBP Front end selection system

**PLM/Siemens**

Product lifecycle management system



**FOP/DEEPBLUE**

Factory Order Management System

**SRM/ARIBA**

Supplier Management System

**SAP**

Enterprise ERP Management System

**Information management tools**

Improve and enhance company operational efficiency by collecting, storing, and analyzing operational process information through intelligent computers



R&D

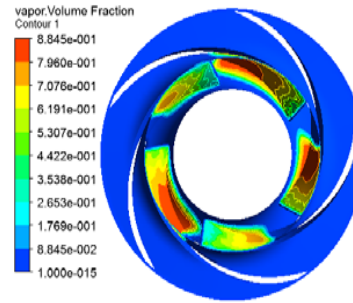
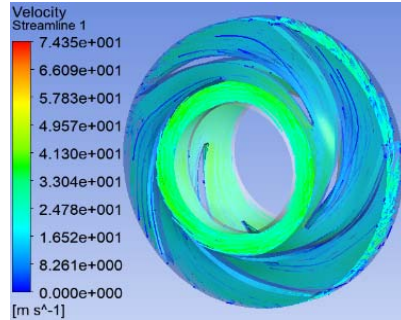
Field

- Hydraulic
- Cavitation
- Corrosion and Abrasion of Materials
- Structure Design
- Complete set of machinery, electricity, and instruments

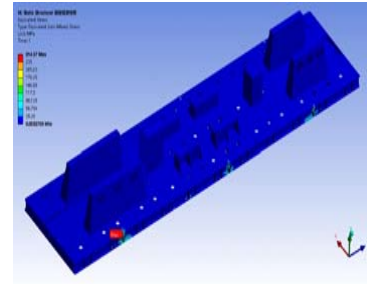
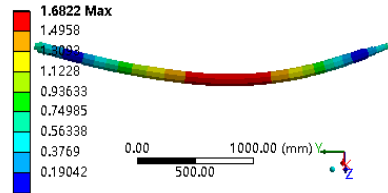
发明专利证书

发明名称: 低高转速泵机械密封保护装置  
发明人: 许文超; 刘磊; 刘地辉; 郑全华; 李晓慧  
专利号: ZL 2013 1 0575401.5  
专利申请日: 2013年11月18日  
专利权人: 大连深蓝泵业有限公司  
授权公告日: 2015年12月30日

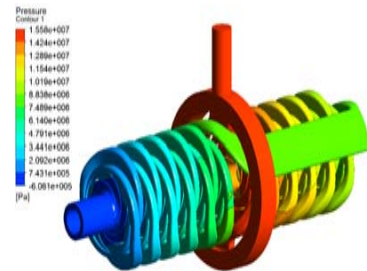
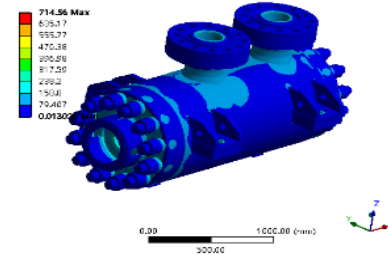
106 people in the R&D center, including 16 with senior professional titles and 81 with intermediate professional titles



A: 1倍间隙-2980rpm  
Total Deformation  
Type: Total Deformation  
Frequency: 84.97 Hz  
Sweeping Phase: 0. °  
Unit: mm



C: Static Structural 静应力51MPa  
Stress Intensity: 5  
Type: Stress Intensity  
Unit: MPa  
Time: 2





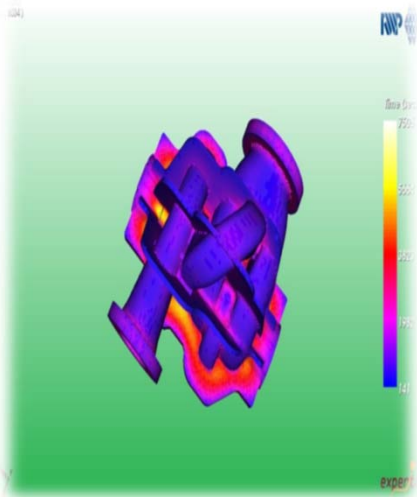
**Manufacture**

**Casting**

- Casting process simulation software Wiew Cast
- Extensive research and production of various, anti-corrosion, anti-abrasive materials
- Precision casting, improve product performance, stability, reduce machining allowance
- Annual output of 3200 tons/year, including sand casting of 3000 tons and precision casting of 200 tons.

**Machining**

- ERP production resource management system
- Workshop area 25,000 m<sup>2</sup>
- 75 professional machining specialists
- Over 20 professional craft and equipment technicians
- Invest over 60 million CNY to import Mazak, HONOR CNC equipment
- Maximum machining dimension 2.5m × 5m and heat treatment length up to 5m





## Workshop

### Process Pump

- ISO9001
- API Q1
- ISO/ASME Testing
- Anti-corrosion, spraying, and packaging for sea transportation.



### Standard Pump

- ISO9001
- API Q1
- Standardized assembly line, assembly operation management.
- Electronic testing signal acquisition system.



### Cryogenic Pump

- ISO9001
- API Q1
- Immersion device for ultra-low temperature parts (-196°C)
- Low temperature assembly protective equipment





## Testing

- 4 testing stations
- Capacity: up to 30,000 m<sup>3</sup>/h
- Head: up to 4,500 m
- Lowest Temperature: -196 °C
- Max. Power: 6,500 kW
- Precision: GB3216-2015 Grade 1
- Testing medium: H<sub>2</sub>O、LN<sub>2</sub>
- Voltage: 380V/660V/6000V/6600V/10000V
- Testing items: Performance, running, NPSH, vibration, temperature rise, noise, high temperature durability test, frequency conversion etc.



Joint acceptance of hot potassium alkali lean liquid pump for the world's largest Shenhua 4 million ton coal to oil project



The first low-temperature test station in China, the fourth in the world, with an investment of 120 million yuan, and the largest scale in the world





## Product

Deep Blue has committed to develop and design centrifugal pumps for many years, and has obtained over 80 national patents, including 12 invention patents; We have successfully developed a series of high-end products, including petrochemical quench oil pumps, ethylene product pumps, hydrogenation feed pumps and power recovery turbines, long-distance pipeline pumps, lean methanol pumps and hydraulic turbines, high-pressure carbamate and liquid ammonia pumps, liquid nitrogen pumps, LNG submersible pumps, etc. Among them, 23 high-tech products have passed national level appraisal, and more than 30 products have achieved their first localization whose performance can reach international advanced level.

Flowrate	2 ~ 12,000m <sup>3</sup> /h
Head	5 ~ 3,800m
Temperature	-196°C ~ +500°C
Pressure	1MPa ~ 42MPa
Standard	API 610、 ISO5199、 ASME B73.1

Product scope	
Petrochemical pumps	OH2, BB1, BB2, BB3, BB4, BB5, VS1, VS4, VS6
Cryogenic pumps	RCG, RCH
Nuclear pumps	Nuclear safety class 2 and 3
Casting products	Pump casing, impeller, cover
After service	Installation, Commissioning test, Maintenance, Repair and spare part replacement / measurement etc.





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## Petrochemical pumps

Petrochemical horizontal pumps include OH2, BB1, BB2, BB3, BB4, BB5.



EAP Series(OH2)



EDS Series(BB1)



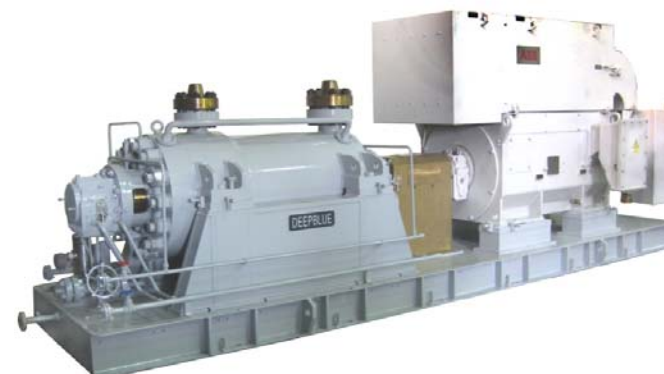
HDD Series(BB2)



SCSK Series(BB3)



SCS Series(BB4)



DCS Series(BB5)



**Petrochemical pumps**

Petrochemical vertical pumps include VS1, VS4, VS6.



LDBV Series(VS1)



LDB Series(VS6)



LYA Series(VS4)



## Cryogenic pump series



RCG Series



RCH Series

RCG Series in-tank pump and RCH series high pressure pump are a kind of vertical centrifugal pump with common shaft between pump and motor, the whole pump with motor is submerged in cryogenic liquid. The main application in:

- LNG Terminal
- LNG Peak Station
- LNG Power Plant
- Propane Dehydrogenation Unit
- Ethylene Unit
- Hydrocarbon Unit



## Casting product

### ➤ Sand casting product



BB1 series pump body casting



BB2 series multi-stage pump body casting



BB2 series single stage pump body casting



BB3 series pump body, pump cover casting



BB5 series cochlear casting



BB2 series pump cover castings



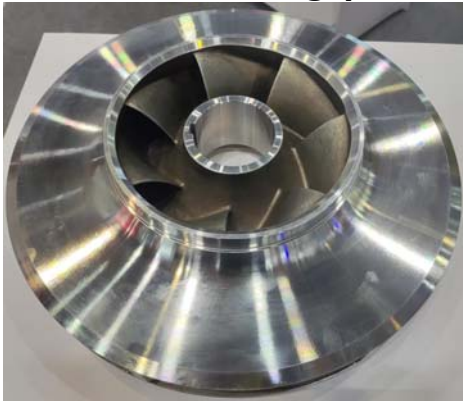
Impeller casting

**Sand casting products include OH series pump body, BB1, BB2 series body cover impeller, BB3 series body cover, BB5 series volute body.**



## Casting product

### ➤ Precision casting products



OH series closed impeller castings



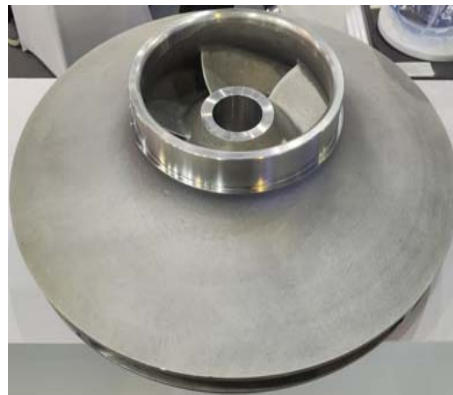
Closed-type impeller casting for nuclear power



OH series open impeller castings



BB series guide vane, impeller castings



Low temperature guide vane casting



OH series pump body casting



Investment casting products include OH series impeller, part of the pump body, BB3, BB4, BB5 series impeller guide vane, VS series impeller and other products.



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## After service

Our company is equipped with a professional overseas service team and a large numbers of service engineers with overseas service experience. We can provide customers with high-quality and comprehensive installation and debugging guidance, training, operation and maintenance, fault repair, spare parts replacement/measurement and other services.



澳大利亚现场  
Australia Site



南非现场  
South Africa Site



俄罗斯现场  
Russian Site



KPIC现场服务KPIC Site



埃及现场  
Eqvptian Site



苏丹现场  
Sudan Site



苏丹现场  
Sudan Site



巴西现场 Brazil Site



**Cooperation and mutual benefits**

**THE END**