

**Shinhoo** 新沪  
PUMPS & MOTOR



**Shinhoo Products Lines**  
Put heart and soul into making good pumps

**合肥新沪屏蔽泵有限公司**  
HEFEI XINHU CANNED MOTOR PUMP CO., LTD.

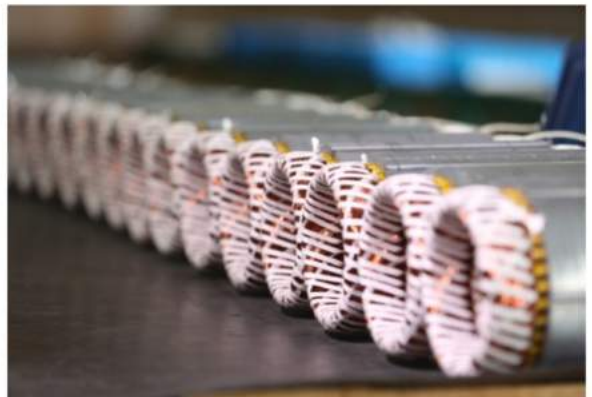
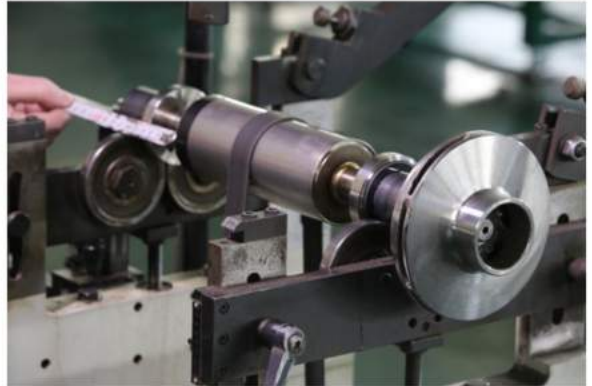
## Company Profile

Hefei Xihu Canned Motor Pump Co., Ltd. is a large-scale modern Enterprise manufactures canned motor pumps and other seal less pumps. The Manufacturing Capability is more than 1.5 million units annually.

Shinhoo has a complete set of design, producing, service and marketing system and has obtained a number of certifications such as ISO9001: 2008 Quality Management System Certification, ISO14000: 2004 Environment Management System Certification, GS Certificate, UL Certificate, CE Certificate, CCC Certificate for national compulsory products and RoHS Certificate, all of which have ensured the stability, reliability , durability and high efficiency of our products .

We have 25 series of canned motor pump with thousands of specifications : H series for chemical industry , NP series for absorption air condition , GPD series for pipeline , CP series for sanitary bath equipment , GP series for cold and hot water circulation pipeline , With advanced technology , equipments , crafts , testing methods and management modes , we have perfectly satisfied general and special requirements for non-leakages delivery of various kinds of fluid .

With respect to the spirit of science and innovative, we sincerely would like to cooperate with all customers in the world and create a splendid future together !



## Shinhoo Pumps

For every application that places high demands on zero leakage and reliability, there is a Shinhoo pump:



### Shinhoo pumps service for:

- Chemical
- Petrochemical
- Refrigerating
- Air Conditioning
- Petroleum Refining
- Textile
- Food
- pharmaceuticals industry
- Hydrogen Production
- Nuclear Plant
- Locomotive Cooling System
- Aerospace

# Item References and Descriptions

**Temperature Protection**  
 Embedded thermostats or RTD in the hot spot of the windings for protection against overheating

**Material series**

- Metallic materials : 304SS, 316SS, 316Lss, Hastelloy C4, C276
- Insulation materials: H, C, Super-C Class
- Gasket: PTFE, Metal Spiral Wound, AFM34

**High efficiency and cavitation performance Design. Optional inducers available for minimum NPSH requirements**

**Automatic axial thrust balance design.**

**Flange Standard:**

- ANSI, ASME, HG, DIN, JIS, GB, SH etc.
- 2 times API nozzle loads.

**API610 changeable seal rings**

**API685 Design: Secondary Containment**

**Hermetically Sealed Rotor Core**

**HPB System-Shinhoo Bearing Monitor**  
**HPB can do:**

- To detect and indicate bearing wear
- To show wrong rotating direction
- To detect lost phase

HPB system can be optioned:

- Local monitoring type
- Remote panel-mount type
- Local + Converter type, can output 4~20μA digital signal to PLC or DCS.

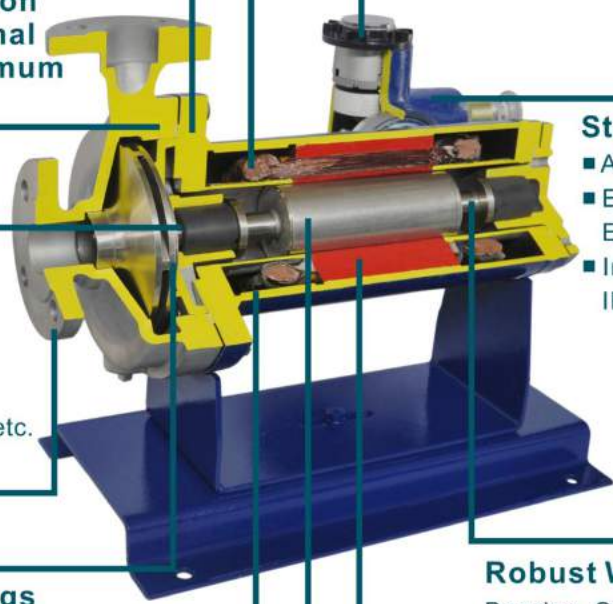
**Standard Ex-proof Design**

- ATEX Certification
- Ex-proof grade: Exd II CT1- 4 / Exd II BT1- 4
- Ingress Protection: IP54, 55, 65, 68

**Robust Wearing Parts**  
 Bearing, Shaft Sleeve/Thrust Collar are available in a variety of materials to suit the specific fluid application.

- Bearing: SiC, CG, PTFE
- Shaft Sleeve/Thrust Collar: SiC, Stellite, Hard Chrome, WC

**Hermetically Sealed Stator Winding**



**Characteristics:**

- ✓ High Level of Performance
- ✓ Lower NPSHr Value
- ✓ Modular Construction and Compact Design
- ✓ Interchangeability of Back Pull-out Assemblies
- ✓ API685, ISO2858 Design
- ✓ Global Service Network
- ✓ ATEX, CSA GB Certifications

**Benifits:**

- ✓ No Leakage
- ✓ No External Lubrication
- ✓ Low Noise & Vibration
- ✓ Low Power Consumption
- ✓ Low Installation Costs
- ✓ Increased Lifetime and Longer Maintenance Intervals
- ✓ High Level of Availability and Short Supply Times

# Certificates

All management processes comply with requirements of ISO9001. The quality system, originally approved by CCCI



In January 15th 2016, Shinhoo chemical pumps were approved ATEX certificate by ECM

## Product Lines

### Type HV Hollow Shaft Basic Type



#### Parameter

Capacity: Max:600m<sup>3</sup>/h  
Total Head: Max:160m  
Output: Max:132kW

#### Features • Use

The pump and motor are connected directly.  
With inner circulation via hollow shaft widely used.

### Type HP External Circulation Basic Type



#### Parameter

Capacity: Max:750m<sup>3</sup>/h  
Total Head: Max:160m  
Output: Max:132kW

#### Features • Use

The pump and motor are connected directly.  
With external circulation pipe.

### Type HN Reverse Circulation Type



#### Parameter

Capacity: Max:600m<sup>3</sup>/h  
Total Head: Max:160m  
Output: Max:315kW

#### Features • Use

The pump and motor are connected directly  
Suitable for handling easy vaporized liquid.

### Type HW Reverse In-line Circulation Type



#### Parameter

Capacity: Max:650m<sup>3</sup>/h  
Total Head: Max:160m  
Output: Max:315kW

#### Features • Use

Another reverse circulation type.  
Suitable for handling LPG,LNG etc.

### Type HZ Self-priming Type



#### Parameter

Capacity: Max: 50m<sup>3</sup>/h  
Total Head: Max:50m  
Output: Max: 45kW

#### Features • Use

Suitable for handling fluid from underground tank.

## Product Lines

### Type HT High Temperature Isolation Type



#### Parameter

Capacity	Max:650m <sup>3</sup> /h
Total Head	Max:150m
Temperature	Max:450°C
Output	Max:315kW

#### Features • Use

The pump and motor are connected with an adapter, which can separate thermally the pump from the motor and prevent heat transfer, suitable for handling high temperature fluid such as hot oil and water etc.

### Type HS Slurry Handling Type



#### Parameter

Capacity:	Max:750m <sup>3</sup> /h
Total Head:	Max:130m
Output:	Max:220kW

#### Features • Use

With inner mechanical seal. Suitable for handling slurry fluid with little amount of soft particle.

### Type HR High Melting Point Type



#### Parameter

Capacity:	Max:220m <sup>3</sup> /h
Total Head:	Max:90m
Melting Point:	Max 40°C
Output:	Max:55kW

#### Features • Use

With full heating jacket, suitable for handling high melting point fluid.

### Type HR-Y Super High Temperature Type for High Melting Point



#### Parameter

Capacity:	Max:300m <sup>3</sup> /h
Total Head:	Max:120m
Melting Point:	Min 40°C
Output:	Max:132kW

#### Features • Use

Super High temperature motor with heating jacket. Suitable for handling higher melting point fluid.

### Type HV-X Super High Temperature Type



#### Parameter

Capacity:	Max: 350m <sup>3</sup> /h
Total Hea:	Max:160m
Temperature:	Max 400°C
Output:	Max:110kW

#### Features • Use

Utilizing exclusive super insulation materials. Suitable for high temperature fluid no cooling required.

## Product Lines

### Type HG Gas Seal Slurry Handling Type



#### Parameter

Capacity	Max:300m <sup>3</sup> /h
Total Head	Max:160m
Temperature	Max:400°C
Output	Max:110kW

#### Features • Use

With inner mechanical seal and gas seal chamber, suitable for handling slurry fluid containing slurry concentration of which shall be no more than 30%wt .

### Type HP-M Multi-stage Type Basic Design



#### Parameter

Capacity:	Max:280m <sup>3</sup> /h
Total Head:	Max:800m
Output:	Max:315kW

#### Features • Use

Back to Back Multistage Design for higher head pump

### Type HN-M Multi-stage Type Reverse Circulation Design



#### Parameter

Capacity:	Max:280m <sup>3</sup> /h
Total Head:	Max:800m
Output:	Max:315kW

#### Features • Use

Back to Back Multistage Design for higher head pump.  
Suitable for handling easy vaporized liquid.

### Type HT-T Multi-stage Type High Temperature Design



#### Parameter

Capacity:	Max:300m <sup>3</sup> /h
Total Head:	Max:120m
Temperature:	Max350°C
Output:	Max:315kW

#### Features • Use

Back to Back Multistage Design for higher head pump.  
Suitable for handling higher temperature fluid.

### Horizontal High Pressure and Temperature Type



#### Parameter

Capacity:	Max:600m <sup>3</sup> /h
Total Head:	Max:160m
Temperature:	Max:450°C
Pressure:	Max:42MPa
Output:	Max:260kW

#### Features • Use

High Pressure & Temperature Canned Motor Pump for nuclear industry, high pressure and temperature test system, supercritical process, chemical process.



## Product Lines

### In-line Vertical High Pressure and Temperature Type



#### Parameter

Capacity : Max:600m<sup>3</sup>/h  
 Total Head : Max:160m  
 Temperature: Max:450°C  
 Pressure: Max:42MPa  
 Output: Max:260kW

#### Features • Use

High Pressure & Temperature Canned Motor Pump for nuclear industry, high pressure and temperature test system, supercritical process, chemical process, in-line vertical construction is propitious to installation.

### Supersize Canned Motor Pump



#### Parameter

Capacity: Max:1200m<sup>3</sup>/h  
 Total Head: Max:200m  
 Temperature: Max:400°C  
 Pressure: Max:25MPa  
 Output: Max:350kW

#### Features • Use

Typically used in nuclear industry, port storage and transportation, petrochemical, boiler circulation etc.

### Cryogenic Canned Motor Pump



#### Parameter

Capacity: Max:115m<sup>3</sup>/h  
 Total Head: Max:600m  
 Temperature: -125°C  
 Output: Max:110kW

#### Features • Use

The construction and material are suitable for handling cryogenic liquid, such as LNG, ethylene, propylene, methane etc.

### Type HE Submersible Type with Canned Motor



#### Parameter

Capacity: Max: 65m<sup>3</sup>/h  
 Total Head: Max:120m  
 Output: Max:110kW

#### Features • Use

In tank mounting for Minimum NPSH and maximum safety

## Product Lines

### Type AF Canned Motor Agitator



#### Parameter

Temperature: Max:220°C  
 Speed: 200~960RPM  
 Output: Max:22kW

#### Features • Use

No leakage from vacuum to high pressure service. Bottom-mounted or Side-mounted type, suitable for tanks and reactors for regular mixing, homogenization, reaction acceleration, emulsion production, uniform solution formulation and to suspend solids in chemical, food and pharmaceutical industry.

### Locomotive Pump with Canned Motor



#### Parameter

Capacity: Max:280m<sup>3</sup>/h  
 Total Head: Max:800m  
 Output: Max:315kW

#### Features • Use

Cooling fluid circulation pump used in propulsion converter for a traction vehicle. The pump is used for circulation of cooling fluid in a closed circuit with expansion vessel.

### Type HX Vortex Canned Motor Pump



#### Parameter

Capacity: 0.5~3m<sup>3</sup>/h  
 Total Head: Max:90m  
 Output: Max:15kW

#### Features • Use

High efficiency design for low flow/high head. Zero leakage pumping or circulation of volatile and expensive fluids such as cleaning agents and thermal control fluids. Applications are met in general industry and OEM machine. All types are available with Ex-Proof Motor for Chemical or Petrochemical Process Industries.

### TYPE TA Axial oil pump for Transformer



#### Parameter

Capacity: Max:75m<sup>3</sup>/h  
 Total Head: Max:32m  
 Output: Max:15kW

#### Features • Use

Axial ( in-line ) oil circulating pump for static and mobile Transformers and converters, mainly used in locomotive. The main characteristics of the oil pumps are light weight, small space requirement and universal mounting possibilities in any position, directly into the pipework.

### TYPE MP Non-metallic Magnetic Drive Pump



#### Parameter

Capacity: Max:110m<sup>3</sup>/h  
 Total Head: Max:65m  
 Output: Max:37kW

#### Features • Use

The wetted parts are made of advanced corrosion-resistance materials such as fluororesin and fine ceramics, and the major fluoroplastic-made parts are reinforced with special metal inserts for added mechanical strength and durability. These materials enable strong acids, strong alkalines and virtually all chemical solutions to be handled. Back pullout construction, enabling their internals to be inspected or their component parts to be replaced without disconnecting associated piping.

# Note

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