

Focused on the fluid control industry for 15 years
To be a respected international fluid control expert

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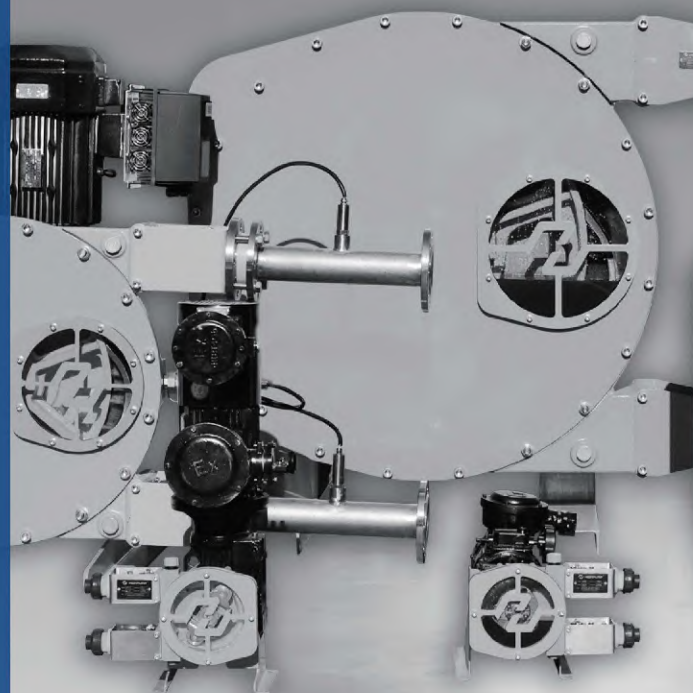
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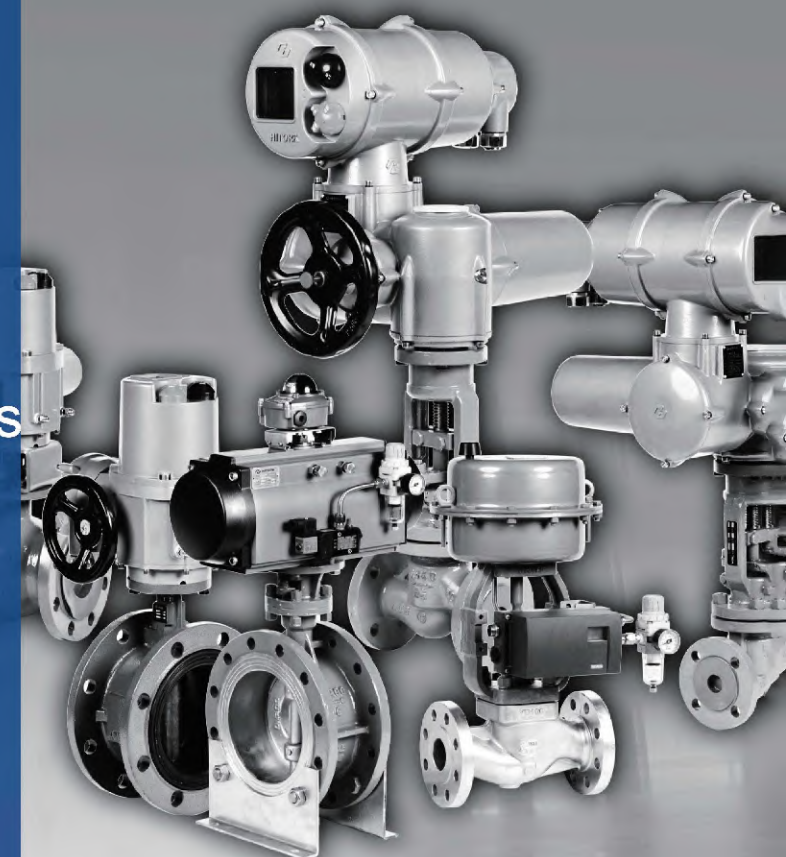
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Hankun (Beijing) Fluid Control
Technology Co., Ltd

- **HITORK** Actuator
- **HVAL** Valve
- **HIGHPUMP** Pump
- **HANKUN** Dosing Devices

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Mission

Achieve our success through serving customer



Vision

Become a respected international expert in fluid control



Values

Upright, Team work, Excellence



Positioning

Making fluid control more reliable and simpler under harsh working conditions of special medium

Hankun 2007

Hankun was founded in 2007 with a vision to become a "respected international expert in fluid control". Hankun independently develops and produces IoT hose pumps, unattended dosing devices, IoT electric actuators, pneumatic actuators, valves. Hankun is the world-leading supplier in fluid control products and services.

Hankun is headquartered in Beijing with the factory in Shanghai and branch offices in Xi'an, Chengdu, Changsha, Guangzhou and other cities. Furthermore, Hankun has authorized distributors in Canada, Singapore, Indonesia, Thailand, Russia, Uzbekistan, Pakistan, India and other countries and regions, ensuring a robust and efficient sales network and service system.

With the mission of "Making fluid control more reliable and simpler under harsh working conditions of special medium", Hankun has long been dedicated to providing professional fluid control solutions for industries such as power plant, petrochemicals, water treatment and other process industries. Through the necessary technical exchanges, Hankun recommends safe, cost-effective, environmentally friendly solution and design based on the actual site conditions, effectively addressing issues such as leaks and blockages.

Reputation is paramount for Hankun. We strictly adhere to contractual obligations by providing timely delivery, installation guidance, and commissioning to ensure compliance and smooth handover for customer use. Throughout the entire lifecycle, we provide whole process and considerate service.

Choose Hankun, Choose reliable, easy and satisfied.



History

Hankun quality driving the future



03 Factory



04 Applications



Power Plant

HIVAL valves and the matching HITORK actuators are widely used in boilers, steam turbines and auxiliary devices to ensure the continuous and stable operation of power plants.



Chemicals

HIGHPUMP hose pumps have been widely used in various devices in the chemical industry, with zero maintenance and easy repair, making HIGHPUMP hose pumps a popular star product for clients in the chemical industry.



Oil & Gas

HITORK electric actuators have obtained explosion-proof CT4 certification and EMC3 level, and are widely used in the oil & gas industry.



Mining and Metallurgy

Due to its natural structural advantages, HIGHPUMP hose pump can transport solid-liquid two-phase medium very well, showing its talents in the mining and metallurgy industry.



New Energy

HIGHPUMP hose pump has unique advantages in the slurry transportation in the preparation process of lithium and other energy storage materials and in the transportation of radioactive waste liquid in the "three wastes treatment" of nuclear energy.



Water Treatment

HIGHPUMP hose pump is increasing used in the water treatment industry due to its simple structure and no plugging or leaking, which greatly reduces the maintenance workload and use cost of the pump, and provides a guarantee for the continuous and stable operation of the device.

05 Certification

ISO

CE:

HITORK Electric Actuators

HITORK Pneumatic Actuators

HIGHPUMP Hose Pumps

HIGHPUMP Metering Pumps

SIL3:

HITORK Electric Actuators

HITORK Pneumatic Actuators

HIGHPUMP Hose Pumps

HIGHPUMP Metering Pumps



06

Electric Actuators

Product Introduction

IoT Intelligent



Multi-Turn Series

HITORK2.0 IoT HKM.2 multi-turn electric actuator can be used to control a variety of valves and other similar products, such as gate valves, globe valves, regulating valves, etc. which are widely used in power plant, petrochemical, water treatment, shipping, papermaking and other industries.

- >Light weight, small volume and high strength. The housing is made of special aluminum alloy.
- >Absolute encoder for travel and torque, non-intrusive setting-no cover removal required.
- >Connect in accordance with ISO5210 standard.
- >IP67(IP68 Option)
- >Adaptive for bus, bluetooth, internet of things
- >Plug-in type dual panel structure, double sealing, convenient wiring maintenance.



Part-Turn Series

HITORK2.0 part-turn electric actuator bases on multi-turn electric actuator, equipped with worm gearbox to implement the angular travel output and has all the characteristics of multi-turn electric actuator. Flexible combination and wide range of output torque. It can be directly connected with the valve, and can also be connected with the crank arm or connecting rod to meet the requirements of various working conditions. Mostly used for ball and butterfly valves.



Compact Part-Turn Series

The second-generation compact part turn electric actuator is a patent-protected electric actuator with integrated rotary output. The double-display design of the valve position in the same window makes the debugging work more convenient. The actuator is smaller in size and lighter in weight. It can be directly connected to the valve, and can also be connected with a crank arm or a connecting rod to meet the needs of various working conditions. Mostly connected with ball valves and butterfly valves.



Linear Series

HITORK2.0 linear electric actuator based on multi-turn electric actuator, equipped with linear unit to implement linear travel output, it has all the characteristics of multiturn electric actuator, small volume, large thrust, high reliability, and is mostly used for regulating valve. The HALF structure connection has flexible installation and strong adaptability.



Compact Linear Series

The second-generation compact linear electric actuator is an electric actuator with integrated linear output. It is smaller in size and lighter in weight, and is mostly used for regulating valves.The HALF structure connection part is flexible and adaptable.

Core Advantages

HITORK2.0 IoT Electric Actuator Advantage and Comparision with Other Brand

Performance/Parts	Hitork2.0	Outstanding advantages	Other main brands		
			UK	DE	Others brand in CHN
Position sensor	Self-developed magneto-electric Absolute encoder	No loss of valve position, no need of battery; digital signal transmission; more reliable and durable, high precision.	2nd generation product with hall counter; 3rd generation products with absolute encoder.	Mechanical products with mechanical limit switches; Intelligent products with linear optocouplers.	Hall counter
Self-adaptive,smart brake	self-adaptive, smart brake	Run at most 3 times after installation, it can be adjusted automatically according to the actual load and stroke, smart braking, no oscillation.	Brake in advance.	Brake in advance.	Modulating type easy to oscillate.
Torque sensor	Absolute encoder	Digital communication;convenient installation and calibration; more reliable.	Pressure sensitive sensor.	Mechanical products with mechanical torque switch; Intelligent products with potentiometers.	Pressure sensitive sensor.
Adjustable torque range	40%~120%	Large linear adjustable range and high accuracy of torque.	40%~100%	40%~100%	40%~100%
Split type	Yes	Available for separate installation of electric control and mechanical parts within 150m, adaptive to special working conditions.	No	Yes	Some yes
Asset Management	Yes	Record operation process parameters, such as temperature, position, vibration,abnormal torque data, maintenance situation and early warning, etc.	3rd generation product yes	No	No
Communication interface	Fieldbus, Bluetooth, GPRS	Rich communication interface, support Bluetooth control of local mobile app; support internet of things access, remote control.	Field bus	Field bus	Field bus
IoT support	Self-built IoT cloud platform	Industry leading, provide life-cycle tracking management, expert system, smart diagnosis, predictive maintenance reminder, web and mobile app alarm, remote support.	No	No	No

Typical Cases



Guodian Luanhe PP

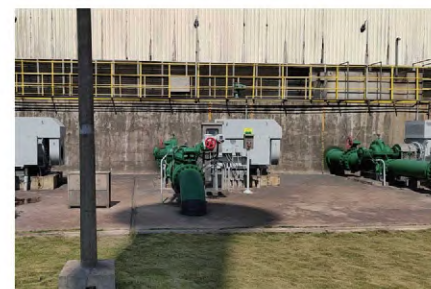
Datang Wangtan PP

Hengfeng PP

Suining Natural Gas

Chaoyang Biomass Energy

Dandong Water Plant



07

Pneumatic Actuators

Product Introduction

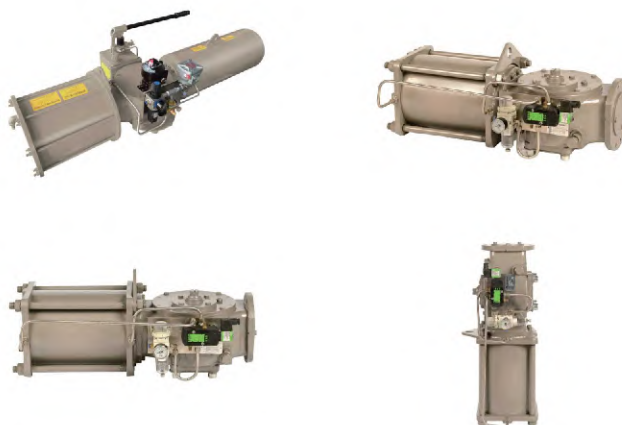
● HPL Series Piston Pneumatic Actuators

HPL series piston actuators adopt a piston type structure, which is an ideal driving device for opening and closing various gate valves, flat gate valves, slurry valves, coal slurry valves, control valves, stop valves, drain valves, and other linear stroke valves.



● HPY Series Scotch Yoke Pneumatic Actuators

HPY series pneumatic actuators adopt the latest modular structural design and are widely used for driving ball valves, butterfly valves, plug valves, and other valves.



● HPR Series Rack and Pinion Pneumatic Actuators

HPR series pneumatic actuators are divided into DA (double acting) and SR (spring return) categories, with precise structure and compact size. They are mainly used for automatic control of ball and butterfly valves. HPR series pneumatic actuators have a unique style, advanced technology, precision manufacturing and economical compact mode design. They can be directly equipped with other accessories to improve efficiency and economy.



● HPD Series Diaphragm Pneumatic Actuators

HPD series high performance linear pneumatic diaphragm actuator adopts multi-spring structure, which makes it light weight, small volume and large output force. Mainly used for linear stroke control valves, suitable for proportional adjustment and on-off control applications, but also very suitable for other linear action devices.



Core Advantages

HITORK series pneumatic actuators, including four series, HPR series pinion-and-rack pneumatic actuators, HPL series linear pneumatic actuators, HPD series linear pneumatic diaphragm actuators and HPY series scotch yoke pneumatic actuators.

HPR series actuator torque can reach up to 13024NM, HPL series actuator thrust can reach up to 379200N, HPD series actuator thrust can reach up to 26050N, and HPY series actuator torque can reach up to 170000NM.

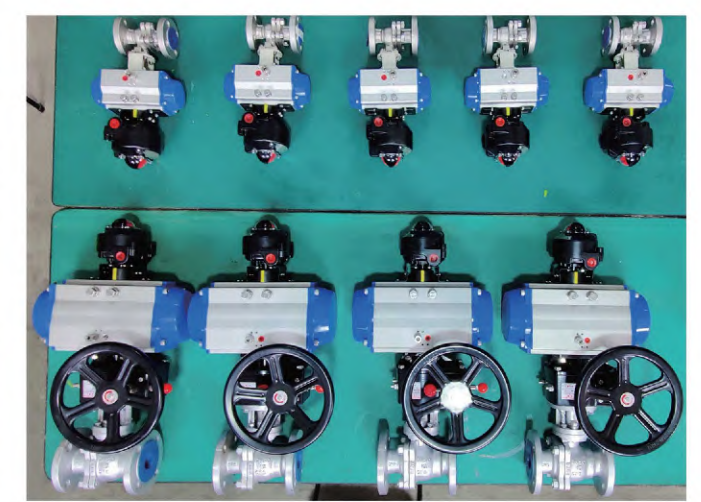
By adding manual override and other pneumatic accessories, our pneumatic actuators can perfectly solve endusers various needs.



Typical Cases



Huadian Longkou PP
Huadian Fengning Biomass
Huadian Laicheng PP
Yichun Jingmei PP
Guodian Xingyang PP
Jintang PP



08

Electric Valves

Product Introduction



Electric Globe Valve

- >Reasonable structure, reliable sealing, excellent performance, and beautiful appearance
- >The sealing surface is welded with Co-based alloy, which is wear resistant, corrosion resistant, good scratch resistance, and long service life
- >The valve rod is subject to tempering and surface nitriding treatment, with good scratch resistance and corrosion resistance
- >The valve is equipped with an inverted sealing structure, ensuring reliable sealing
- >Parts materials, flanges, and butt weld sizes can be reasonably selected according to user requirements to meet various engineering needs
- >Equipped with HITORK electric actuator, it can achieve stable and reliable operation of the valve



Electric Ball Valve

- >Specially designed for the drainage system of power stations, with all-metal hard sealing
- >The sealing surface adopts special spraying technology, with a hardness of up to 72RC, and is grinded with emery to achieve complete sealing
- >Self cleaning function: The valve ball has a polished surface, reducing torque and improving sealing
- >Bubble level seal: integrated valve seat design, eliminating the possibility of leakage between the valve body and valve seat
- >High strength spring seal: bubble level leakage, while being able to withstand high reverse pressure
- >Pressure rating up to 2500LB

Electric Control Valve

- >The integrated structure of valve core and valve rod is adopted in small size to reduce problems easily caused by parts matching
- >Abundant interior configurations and multiple adjustable features are available
- >High adjustment accuracy, adjustable ratio up to 50:1
- >Top guide, compact structure, smooth flow, convenient maintenance
- >Suitable for stable and reliable regulation of various media
- >Equipped with HITORK electric actuator, it can achieve stable and reliable operation of the valve



Electric Butterfly Valve

- >Butterfly valve specially designed for desulfurization and denitrification, fully considering the impact of slurry corrosion and abrasion
- >The valve plate has no pin connection and its bottom rotates, making the center position of the valve plate more accurate and free of leakage
- >The valve plate and valve seat are spherical sealed, greatly reducing torque
- >High precision machining and polishing of valve plate, close fitting with valve seat, and good sealing performance
- >Axial thrust bearing or lubricated bronze to prevent overloading of the valve stem
- >Soft sealing, zero leakage, long service life
- >Valve plate 2507/1.4529 duplex stainless steel is optional, resistant to corrosion and abrasion



Zero leakage
maintenance-free

Electric Gate Valve



- >Reasonable structure, reliable sealing, excellent performance, and beautiful appearance
- >The sealing surface is welded with Co based alloy, which is wear-resistant, corrosion resistant, good scratch resistance, and long service life
- >The valve rod is subject to tempering and surface nitriding treatment, with good scratch resistance and corrosion resistance
- >The valve is equipped with an inverted sealing structure, ensuring reliable sealing
- >Parts materials, flanges, and butt weld sizes can be reasonably selected according to user requirements to meet various engineering needs
- >Equipped with HITORK electric actuator, it can achieve stable and reliable operation of the valve

Core Advantages



High pressure difference



High temperature difference



Corrosion resistant



Wear resistance

09

Pneumatic Valves

Product Introduction



Pneumatic Ball Valve

- >Specially designed for the drainage system of power stations, with all-metal hard sealing
- >The sealing surface adopts special spraying technology, with a hardness of up to 72RC, and is grinded with emery to achieve complete sealing
- >Self cleaning function: The valve ball has a polished surface, reducing torque and improving sealing
- >Bubble level seal: integrated valve seat design, eliminating the possibility of leakage between the valve body and valve seat
- >High strength spring seal: bubble level leakage, while being able to withstand high reverse pressure
- >Pressure rating up to 2500LB
- >Equipped with HITORK pneumatic actuator, it can achieve stable and reliable operation of the valve



Pneumatic Control Valve

- >The integrated structure of valve core and valve rod is adopted in small size to reduce problems easily caused by parts matching
- >Abundant interior configurations and multiple adjustable features are available
- >High adjustment accuracy, adjustable ratio up to 50:1
- >Top guide, compact structure, smooth flow, convenient maintenance
- >Suitable for stable and reliable regulation of various media
- >Equipped with HITORK pneumatic actuator, it can achieve stable and reliable operation of the valve

Pneumatic Gate Valve

- >Reasonable structure, reliable sealing, excellent performance, and beautiful appearance
- >The sealing surface is welded with Co based alloy, which is wear-resistant, corrosion resistant, good scratch resistance, and long service life
- >The valve rod is subject to tempering and surface nitriding treatment, with good scratch resistance and corrosion resistance
- >The valve is equipped with an inverted sealing structure, ensuring reliable sealing
- >Parts materials, flanges, and butt weld sizes can be reasonably selected according to user requirements to meet various engineering needs
- >Equipped with HITORK pneumatic actuator, it can achieve stable and reliable operation of the valve



Pneumatic Globe Valve

- >Reasonable structure, reliable sealing, excellent performance, and beautiful appearance
- >The sealing surface is welded with Co based alloy, which is wear-resistant, corrosion resistant, good scratch resistance, and long service life
- >The valve rod is subject to tempering and surface nitriding treatment, with good scratch resistance and corrosion resistance
- >The valve is equipped with an inverted sealing structure, ensuring reliable sealing
- >Parts materials, flanges, and butt weld sizes can be reasonably selected according to user requirements to meet various engineering needs
- >Equipped with HITORK pneumatic actuator, it can achieve stable and reliable operation of the valve

Zero leakage
maintenance-free

Pneumatic Butterfly Valve

- >Butterfly valve specially designed for desulfurization and denitrification, fully considering the impact of slurry corrosion and abrasion
- >The valve plate has no pin connection and its bottom rotates, making the center position of the valve plate more accurate and free of leakage
- >The valve plate and valve seat are spherical sealed, greatly reducing torque
- >High precision machining and polishing of valve plate, close fitting with valve seat, and good sealing performance
- >Axial thrust bearing or lubricated bronze to prevent overloading of the valve stem
- >Soft sealing, zero leakage, long service life
- >Valve plate 2507/1.4529 duplex stainless steel is optional, resistant to corrosion and abrasion
- >Epoxy resin coating on the surface, anti-corrosion
- >Equipped with HITORK pneumatic actuator, it can achieve stable and reliable operation of the valve

Core Advantages


Quick ON-OFF

Large Torque

Long-life


10

Hose Pumps

Product Introduction

Corrosion
Abrasion resistance



HH Series

Based on Hankun's own patented, HH series hose pump adopts advanced design and high-quality materials, which significantly improves the operating life of hose pump and greatly reduces the maintenance. The two shoes installed on the runner at 180 ° squeeze the special hose containing the medium to achieve suction. The rotating shoe squeezes the hose, forming a continuous suction at the inlet of the pump and pushing the medium to the outlet of the pump. The special lubricant in the pump casing can reduce the impact of friction on the hose and ensure the best performance with minimum maintenance. The medium only contacts the inner wall of the hose, so it can transport different special medium.



HP Series

HP series peristaltic pump is superior to other pumps that rely on seals, valves and blades. These components are easy to cause high failure rate and high maintenance rate of the pump, and these positive displacement pumps can not solve the problem that the pump is not in contact with the medium. HP series peristaltic pump is suitable for quantitatively conveying various special medium with high viscosity, paste, acid-base corrosion and containing gas, foam or solid hard particles. HP series peristaltic pumps can help customers achieve significant improvements in process performance, maintenance and quality of equipment at the same time with a lower cost.



Stainless Steel Series

The stainless steel hose pump, pump body and brackets are all made of stainless steel, which can better deal with strong corrosive environments than conventional hose pumps; at the same time, the pump body does not need to be painted, and can also be used for nuclear power and other strict requirements fields.

HIGHPUMP HOSE PUMP

Hankun quality driving the future

High solids content

High viscosity liquid medium

Core Advantages

No mechanical seal or stuffing box

No check valve

Suitable for aggressive or viscous fluids

Dosing

Perfect volumetric flow

Fully self-priming up to 9.8 m

Damage-free continuous dry running

Reversible flow

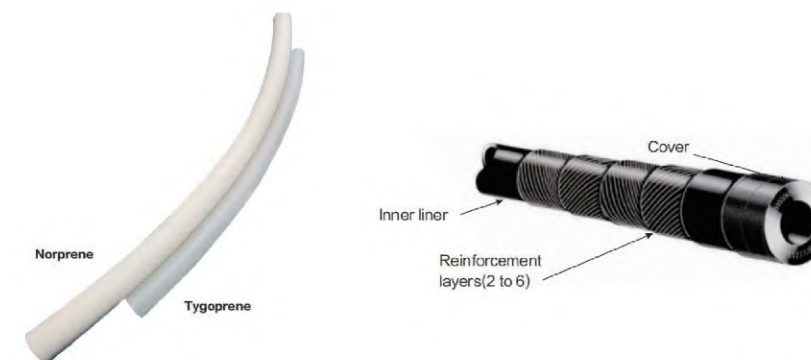
Outlet pressure up to 16bar

Plug and Play

Simple maintenance

Overload protection

Low sound level : ≤ 70dB



We only work with high quality compounded rubbers, reinforced with 2 to 6 individual layers of braided polyamide and with an outer layer made to strict tolerances to ensure perfect compression. The characteristics of HIGHPUMP hoses enable them to last approximately 30% longer than other hoses on the market.

For the hose inner layers, 6 materials are available to suit the diversity of the pumped fluids :

NR	Natural rubber
NBR	Nitrile rubber
EPDM	EPDM rubber
CSM	HYPALON rubber
FKM	VITON rubber
NBR FDA	Nitrile rubber FDA

HIGHPUMP

Good sealing performance

Easy to adjust flow rate, simple structure, long-lasting

HOSE PUMP



Typical Cases



GCL Binhai PP IoT pump

Guodian Nanning PP

Changling Refining & Chemical

Yanchang Yulin Coal Chemical

Zhongneng Silicon



11

Metering Pumps

Product Introduction



HJ Series Diaphragm
Metering Pump

Mechanical diaphragm metering pumps use flexible diaphragms instead of pistons to achieve reciprocating motion under the action of a drive mechanism, and complete the suction and discharge of medium by changing the volume of the pump chamber. This series is suitable for fluid metering in low pressure situations, where the flow rate hardly changes when the pressure changes, with high metering accuracy. The mechanical diaphragm metering pump completely isolates the flowing liquid from the drive lubrication mechanism through a membrane. This product uses the latest PTFE and rubber composite membrane, which enhances corrosion resistance, greatly improves the service life of the membrane, and reduces maintenance and replacement costs. This product is designed to meet the different needs of various working conditions on site. The flow rate can be steplessly adjusted within the range of 0-100%, and it can quantitatively transport liquids without solid particles.



HZ Series Plunger
Metering Pump

Plug metering pump uses the reciprocating motion of the plunger to directly inhale or discharge the medium from the pump cylinder. This series of metering pump has the advantages of simple structure, affordable price and high measuring accuracy. Because the plunger and seal are directly in contact with the medium, the appropriate plunger material and seal form can effectively ensure the better operation of the equipment.



HY Series Hydraulic
Diaphragm Metering Pump

This series of metering pumps can transport clean water and highly corrosive, volatile, crystalline, flammable, explosive, highly toxic, radioactive or other valuable liquids, as well as suspended liquids. To prevent accidents caused by the mixture of medium and hydraulic oil after diaphragm rupture, a double diaphragm metering pump with diaphragm rupture alarm device can be selected for the transportation of flammable, explosive, highly toxic, and valuable liquids.

HIGHPUMP

METERING PUMP

Good sealing performance, able to easily achieve leak free operation.

It can be used to transport corrosive media such as acid, alkali, salt, and high viscosity media.



Core Advantages

01

Superior performance

02

Easy to use

03

Wide range of applications

04

Strong scalability

05

Low cost

06

Low maintenance

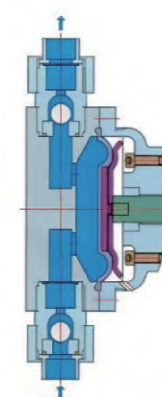
HIGHPUMP METERING PUMP

Small and easy to move

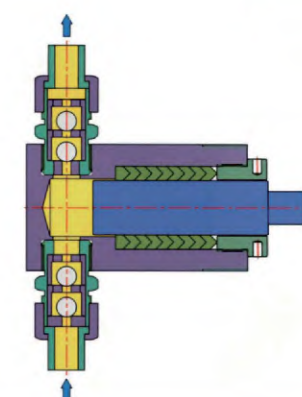
No foundation required

Small footprint

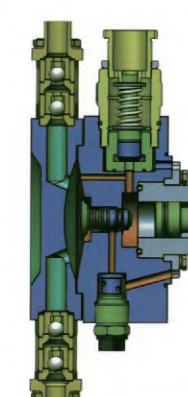
Simple and economical installation



HJ series section drawing



HZ series section drawing



HY series section drawing

12

Dosing Devices

Product Introduction

Corrosion
Abrasion Resistance



Dry Powder Integrated Dosing Device

PAM integrated dry powder dosing system, including automatic dosing of dry powder reagent, solution preparation and mixing, as well as pump, pipeline and electrical systems. The system adopts PLC control, advanced technology, high degree of automation, standardized process, compact structure, movable, convenient operation and maintenance.



Condensate Water Refine Treatment Acid and Alkali Dosing Device

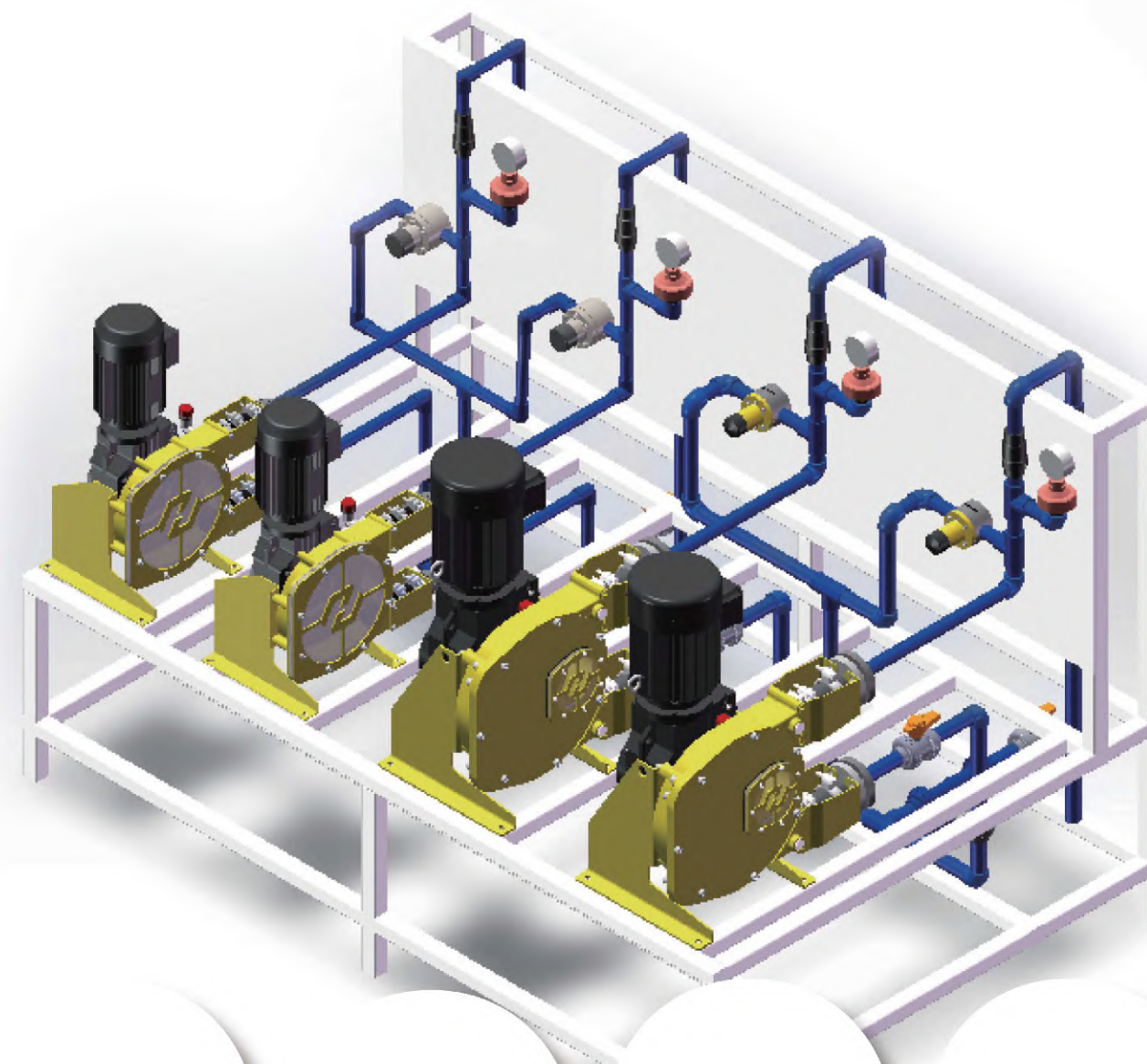
The condensate water refine treatment system in thermal power plants can effectively improve the water and steam quality of the thermal system, slow down corrosion and scaling on the heating surface of the unit, improve the thermal efficiency of the unit and shorten the startup time of new units. It plays an important role in ensuring the safe and stable operation of the unit. The system fully utilizes the corrosion resistance and metering functions of the hose pump to achieve stable and automatic dosing of acid and alkali media.



Sodium Hypochlorite Dosing Device

The water treatment system inevitably needs to add the bactericide sodium hypochlorite, which is toxic, corrosive, volatile and easy to produce gas, resulting in many traditional pumps are not competent. The integrated skid-mounted hose pump not only solves the problems of corrosion resistance and gas transmission in the medium, but also highly integrates the tank, level gauge and automatic control system, which well realizes the efficient and stable operation of the system.

Core Advantages



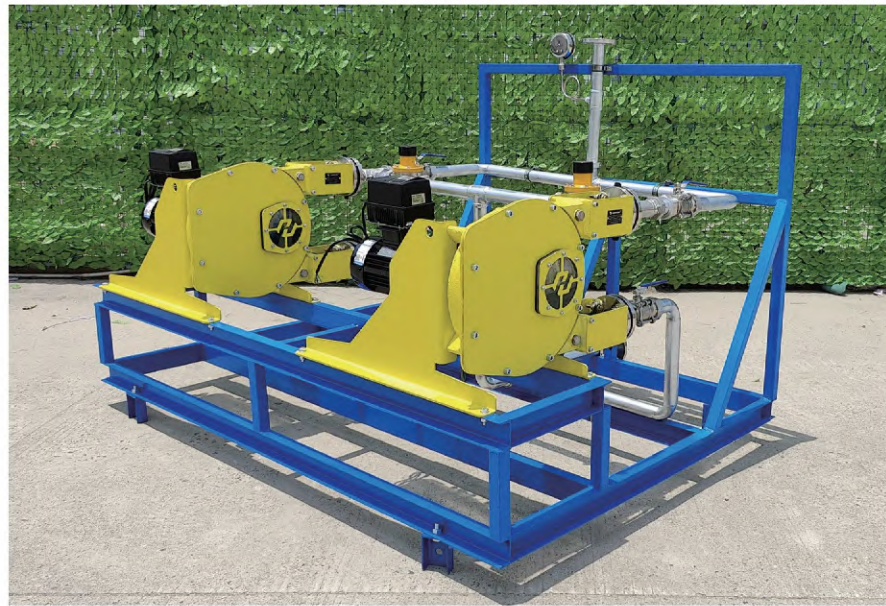
Modular
integration

High degree of completeness,
advanced craftsmanship,
high level of automation

Process standardization,
compact structure,
strong scalability

Customizable according to
user needs

Typical Cases



Jinxin Chemical

Guoneng Heze PP

Huadian Laizhou PP

Huadian Zibo PP



13

Technical Service

Valves and Actuators Assembly

Hankun provides the whole set of valve & actuator products, we can assemble various types of valves, covering all levels and specifications. Accept the customer designated valve brand, our company keep good cooperation relationships with domestic and foreign major valve brands manufacturers.



Technical Support

Hankun has an efficient technical support team, providing professional and bottom-up technical support for customers in the process industry field. Presenting customers with safe, economical, and environment friendly design, type-selection scheme based on actual working conditions. Smooth technical exchange and communication are carried out during the process, and long term after-sales service is provided for customers after the equipment meets the standards and handover for use.



Global Distributors



Major Clients

