

Huayun reserves the right of changing product design & spec.



Huayun hose Pump

IHP-Z series

IHP-Z series(Industry standard maker JB/T12753-2015)

chinahuayun.com

Quolity serves the world, creates a centurial HUAYUN

Hefei Huayun machinery manufacturing Co.,Ltd

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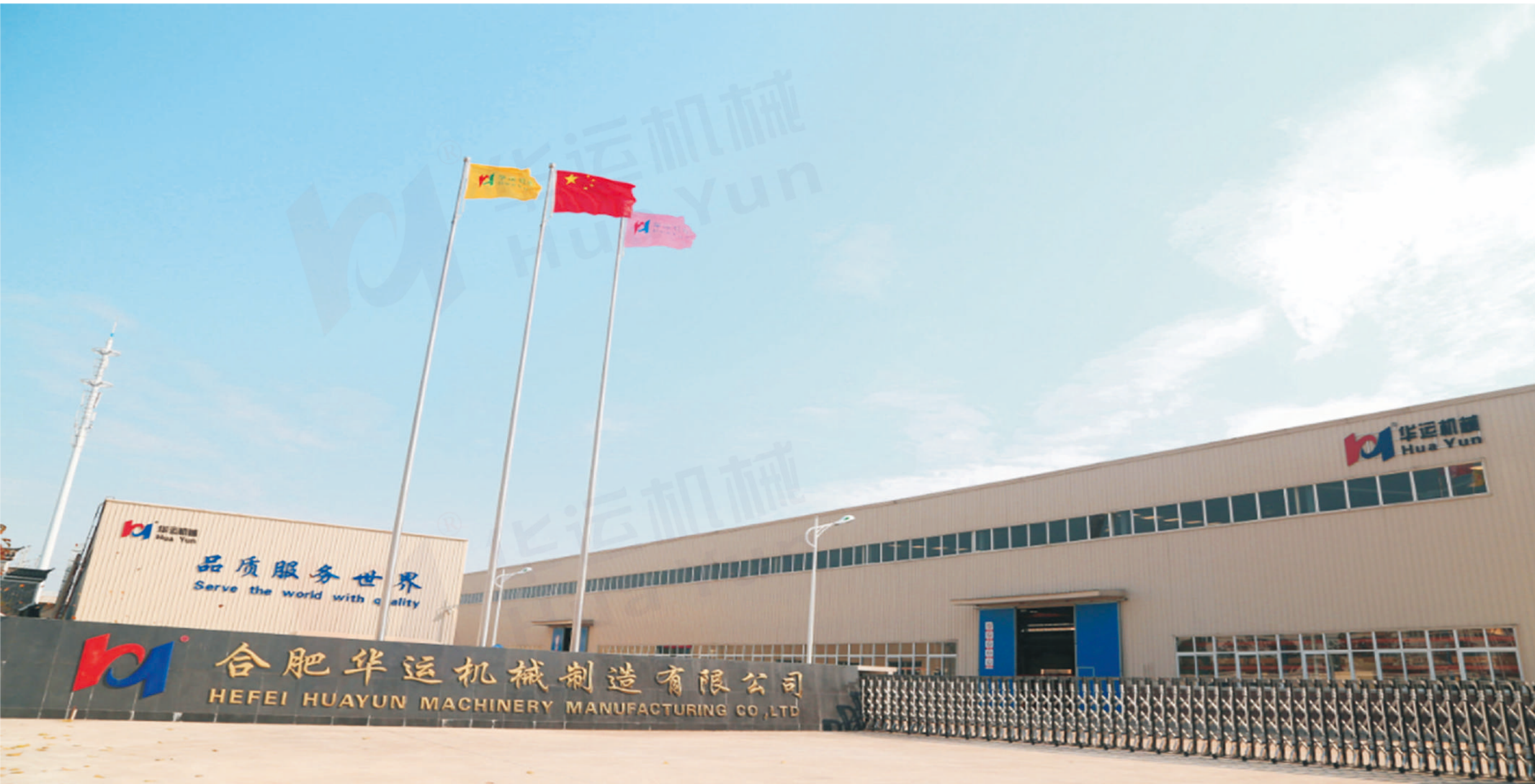


Huayun official website



Huayun fluid machinery

Hefei Huayun Machinery Manufacturing Co.,Ltd



Company introduction

Hefei Huayun Machinery Manufacturing Co., Ltd. is a domestic professional fluid machinery manufacturing high-tech enterprises, located in Hefei Shuangfeng economic development Zone, with 15000 square meters of modern workshop, dozens of precision CNC machine tools and welding robots, numerous experimental testing equipment. The company has passed ISO9001 quality management system certification, ISO14000 environmental system certification and strict implementation, production site to fully implement 6S management.

The company holds the registered trademark of "Huayun Machinery" and has a number of Chinese patents (invention patent No. : ZL 2017 1 0146817.3, ZL 2017 1 0146816.9). It is a specialized and special new enterprise in Anhui Province, and has won the titles of "Famous Trademark of Hefei city" and "Units that abide by contracts and respect credit " for many times. The company has a complete domestic and foreign trade marketing system, and has successively established cooperative relations with more than 3000 domestic and foreign enterprises and military units. The company has strong technical force, independent new product R & D department, R & D department under the jurisdiction of Hefei hose pump engineering technology center, and Jiangsu University signed an industry-university-research cooperation project, is jiangsu University graduate internship base. In addition, the company is a close cooperation unit of Hefei General Machinery Research Institute, Hefei University of Technology and the Third Design Institute of The Ministry of Chemical Industry of China, and jointly researched and developed a large number of high-tech products to serve customers.

The company after more than 20 years of precipitation and accumulation, the company's product variety is rich, formed three product series: industrial hose pump series; Industry 4.0 Automatic new materials, non-standard chemical complete set of equipment series; Dispersing, grinding, emulsifying equipment series products. Our company is the main customized unit of Chinese hose pump industry standard (JB/T12753-2015). Our third generation IHP-Z hose pump has 17 Chinese patents and applied for PCT international patent protection in 176 countries. All series of hose pumps have obtained CE certification of European Union.

IHP-Z type hose pump and international well-known hose pump brand comparison, has obvious technical advantages: simple and reasonable structure, high outlet pressure, hose long life, low maintenance cost, wide range of application. Our products are exported to Europe, North America, South America, Australia, Middle East and Southeast Asia, with good reputation and brand awareness at home and abroad.

Since its establishment, Huayun company has taken "integrity, quality, service" as the credo of enterprise development, relying on technological innovation, creating high-quality products and serving the world, establishing the benchmark of integrity management and building a century-old business.

Quality serves the world, creates a centurial HUAYUN



Hose pump industry standard



Hose pump rotor invention patent

Patent Qualification



Member unit of positive displacement Pump Branch of National Technical Committee of Pump Standardization Administration



Hefei Hose pump Engineering Technology Center



Hose pump invention patent



Hose pump rotor invention patent



Hose pump rotor shaft invention patent

Patent Qualification



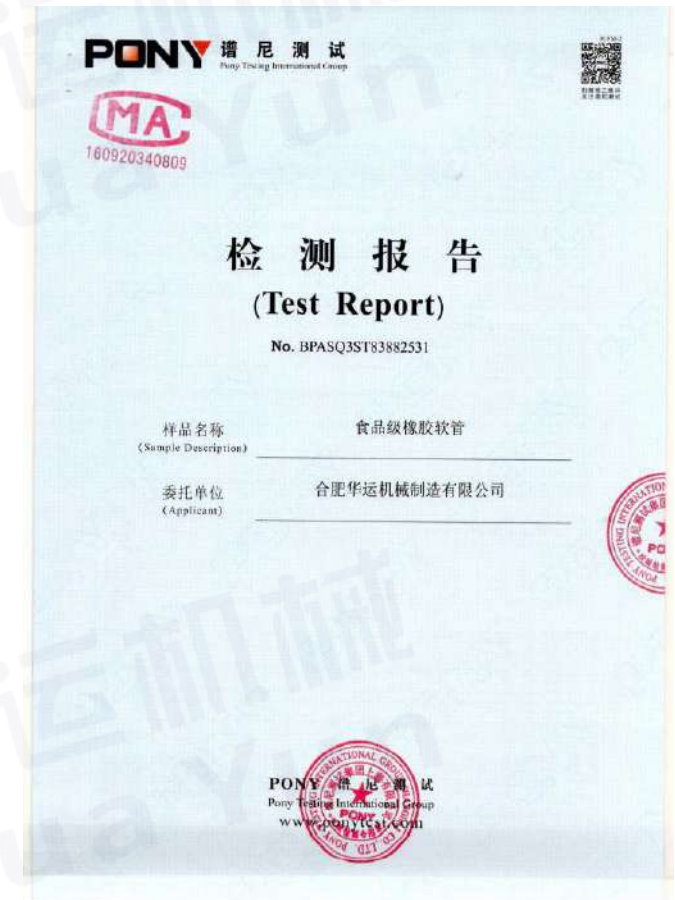
India invention patent



Hose pump CE certificate



Hose pump Inspection report



PONY test report



(Pictures sharing)

IHP-Z hose pump series

Hose pump Industry standard setting Unit (JB/T12753-2015)

This product has obtained a number of national patents

- No seal, high head pump, can transport high viscosity, high solid content
- Adjustable pressure, maximum pressure up to 2Mpa
- Hose service life up to 1500 hours



(Pictures sharing)

IHP-Z hose pump series

Stainless steel explosion-proof high-pressure hose pump

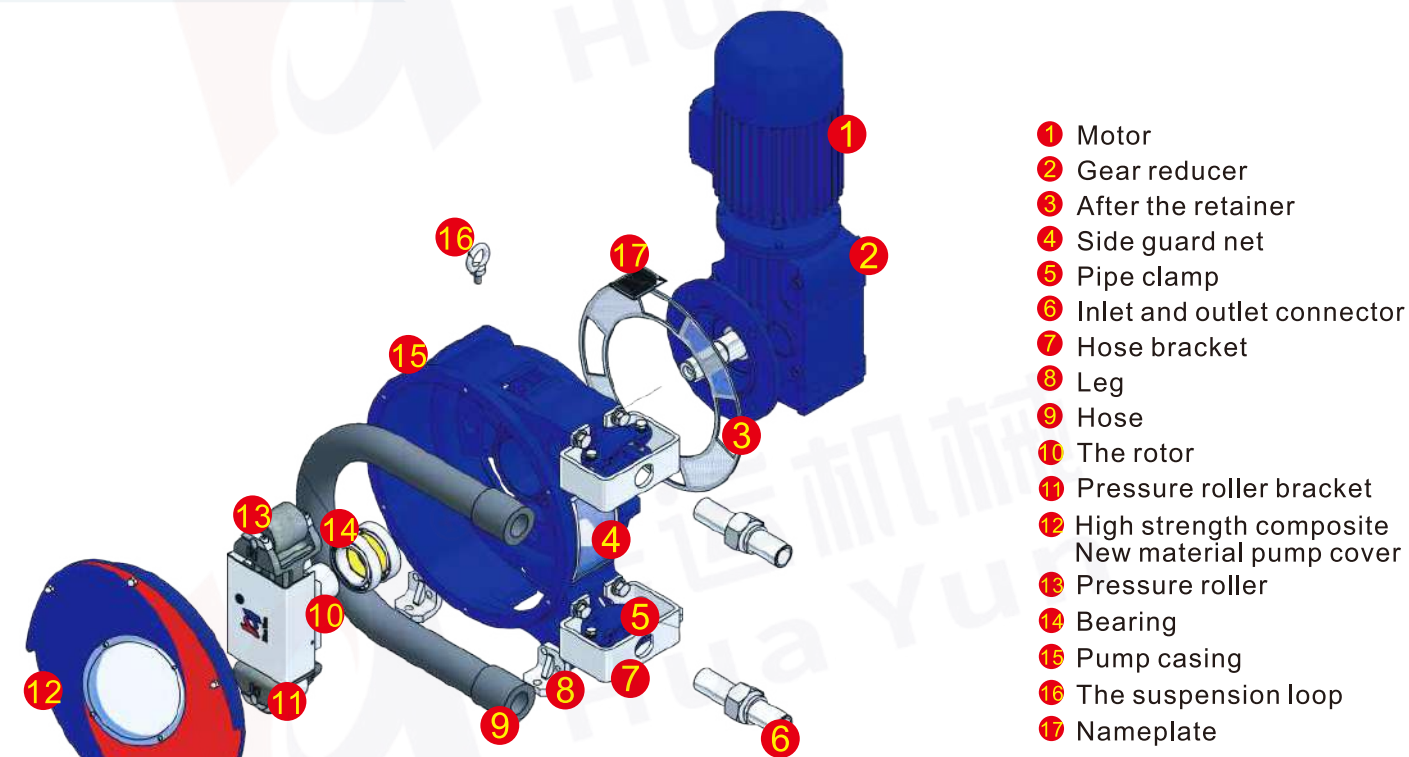
Hose pump Industry standard setting Unit (JB/T12753-2015)

- No seal, high head pump, can transport high viscosity, high solid content
- Adjustable pressure, maximum pressure up to 2Mpa
- Hose service life up to 1500 hours

Product working principle

Hefei hua yun hose pump is a kind of without any special pump mechanical seal, it is a motor to drive the roller on the rotor, alternating extrusion is installed in the pump cavity characteristics of soft tubes, through the form vacuum hose compression and rebound, so as to achieve the aim of inhalation and conveying material, conveying the material only contact with the inner wall of the hose, this pump is concise and reasonable structure, unique appearance, wide application scope.

Product structure analysis

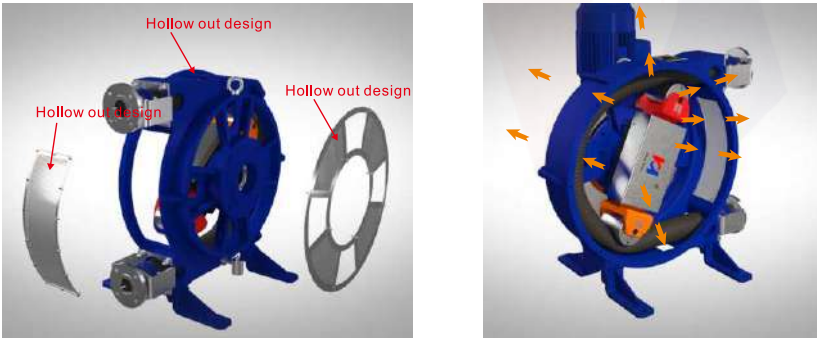


Product patent advantages

1.Reasonable ventilation design

According to the principle of aerodynamics and material mechanics, the hoses pump body of hefei huayun adopts hollowing design, which greatly reduces the weight of the pump, USES the kinetic energy of the pump rotor to drive the air circulation in the pump chamber, improves the heat dissipation speed of the pump chamber, reduces the working temperature of the pump body, and extends the service life of the whole pump.

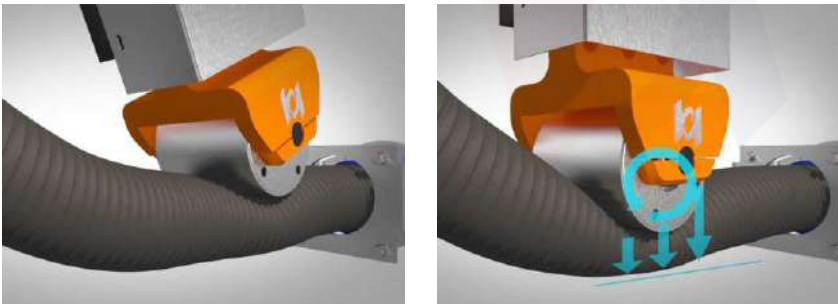
In addition, according to the hose compression stress point is different, through hollowing out design greatly reduce the hose stress, increase the service life of the hose.



3.The rolling roller

Hefei huayun hose pump pressure roller adopts rolling design. It replaces the traditional sliding pressure roller in the world by rolling pressure roller. In the condition of no lubricating oil in the pump chamber, the friction and heat between the pressure roller and the hose can be minimized to extend the service life of the hose.

Our company has repeatedly verified that the rolling pressure roller extrusion can make the pump outlet pressure up to 1.6Mpa.The end face of the rolling roller adopts the patent design of plane seal to avoid the material contaminating the bearing inside the roller and causing the damage of the roller.



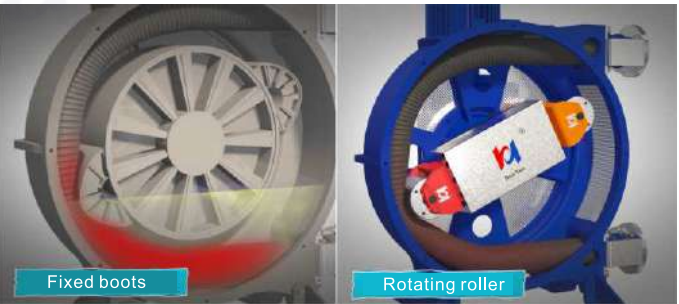
2.International patent rotor assembly

The rotor assembly of hefei huayun hose pump is composed of a spindle, a bracket and a pressure roller. The spindle adopts a unique TU design and has a pressure scale, which is convenient for accurately controlling the outlet pressure of the pump by adjusting the stretching distance of the bracket on the spindle plane.



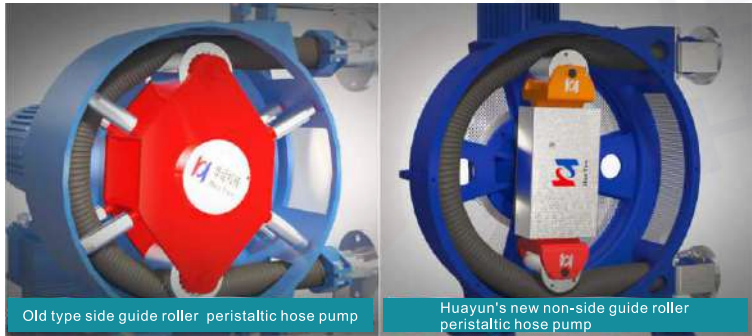
4.Compared with foreign brands

The hoses pump of hefei huayun adopts roller type pressure roller. Compared with the slipper type pressure roller used by foreign brands, there is no need for lubricating oil, which can minimize the heat generated by friction between the pressure roller and the hose and extend the service life of the hose.



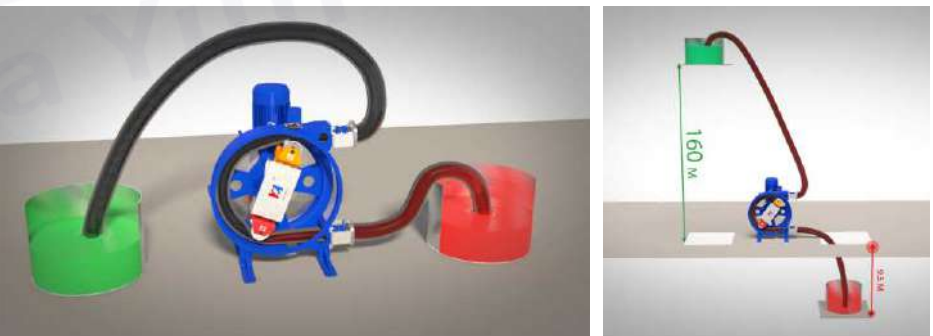
5.Compare with domestic brands

Compared with the old domestic hose pump, hefei huayun hose pump does not need the side guide roller to help restore the hose, which greatly reduces the rigid damage to the hose caused by the side guide roller damage and extends the service life of the hose.



6.Strong suction and high head

- one-key switch for positive and negative rotation□ while allowing dry rotation, huayun hose pump also supports positive and reverse one-key switch.
- true self-priming pump□ no need to pump once. The self-priming force is 9.5m.

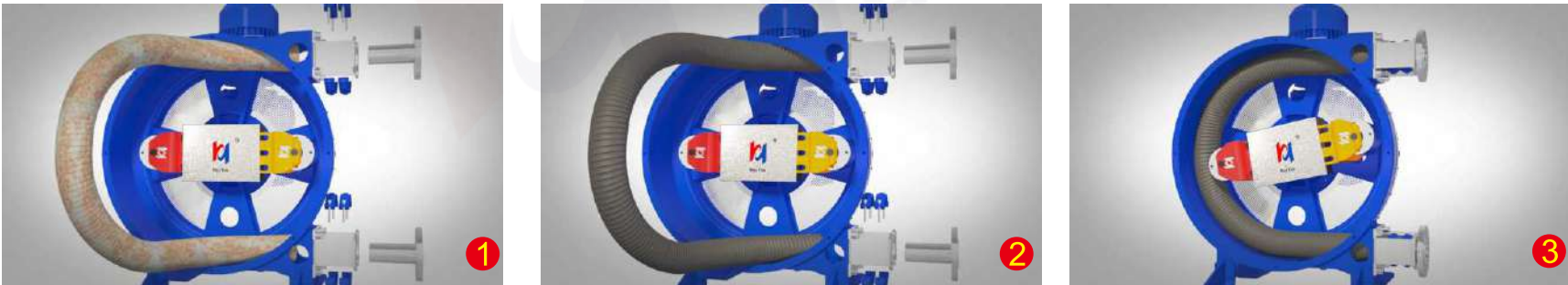


9.Apply to industry

Hefei huayun hose pump is widely used in: smelting, chemical, construction, medicine, food processing, water treatment and other industries, high efficiency transport of high viscosity, high solid content, high abrasion, high shear sensitivity of any form of gas, liquid fluid!

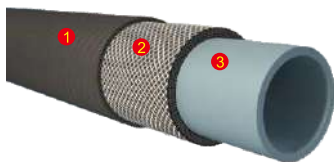
10.Professional after-sales guarantee

Huayun hose pump is easy to install and maintain. The pump cover of high-strength composite new material is light in weight, which can be easily removed by one person. Open the pump cover to complete pipe change and adjust the pump bracket on the spindle.The distance, accurate control pump outlet pressure stop time is short.



7.Huayun special hose

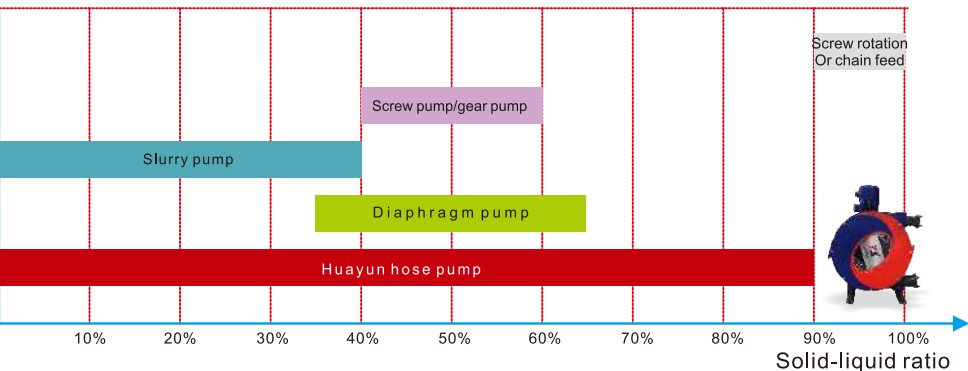
The hose is the core part of the hose pump. The hose independently developed by Hefei Huayun adopting the international standard structure winding method and is composed of inner layer, reinforcement layer and outer rubber. The service pressure can reach 1.6mpa and the service life is long.



- 1 The outer rubber**
Material: natural and synthetic rubber matching material
Advantages: good adhesion with reinforcing fiber layer, high wear - resistant formula material
- 2 Reinforced layer**
Material: Rubber and synthetic fiber cord composite material
Advantages: High strength, fatigue resistance, corrosion resistance and abrasion resistance of synthetic fiber, after special treatment, the rubber hose adhesive material maintains the excellent adhesion strength
- 3 The inner rubber**
Materials: natural rubber, EPDM,NBR rubber, CSM, fluoro rubber
Advantages: high elasticity, high strength, high wear-resisting adhesive, good elasticity recovery

8.Compare with other types of pump solid-liquid delivery

Hose pumps have the widest concentration delivery range from clean water to some powdery materials, especially for muddy materials without any fluidity. Hose pumps are your best choice.



Short supply cycle

The factory has a variety of specifications hose pump spot hundreds of sets, can do the same day delivery of general specifications, three days to arrive;Have large parts warehouse, can ensure that at any time to provide quality, cheap pump accessories!
With a perfect national logistics distribution system, to ensure the safety of customers' goods, on time delivery! To ensure the logistics supply and deliver all the goods to the local area quickly through contracted logistics companies;



Parts library

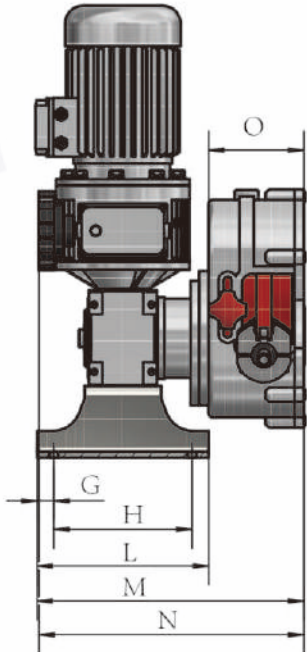
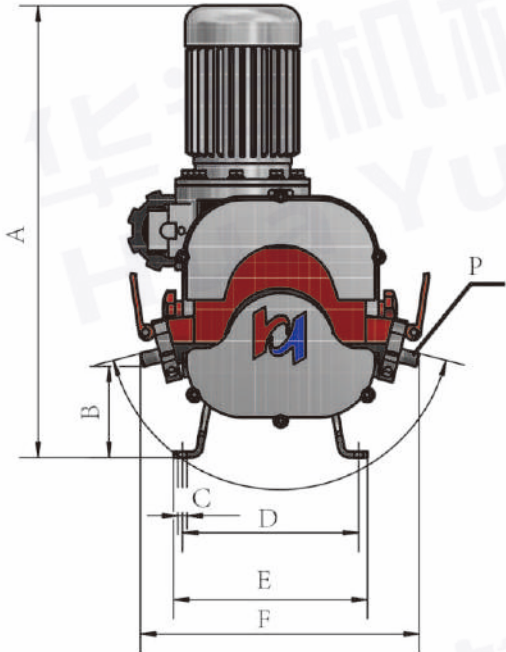


Accessories



The workshop

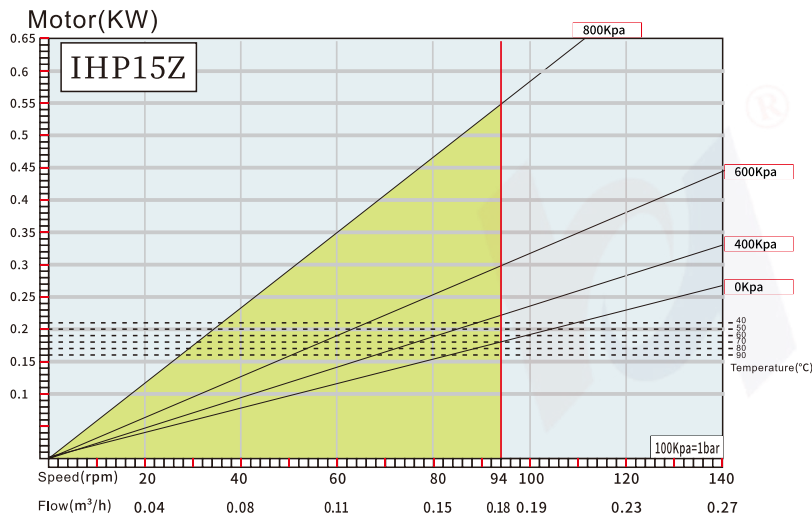
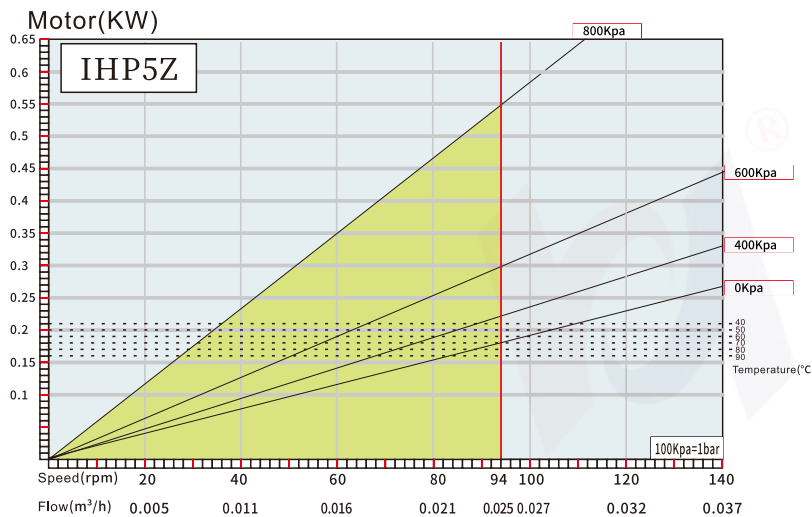
IHP-Z Small pump
(IHP5Z--15Z)



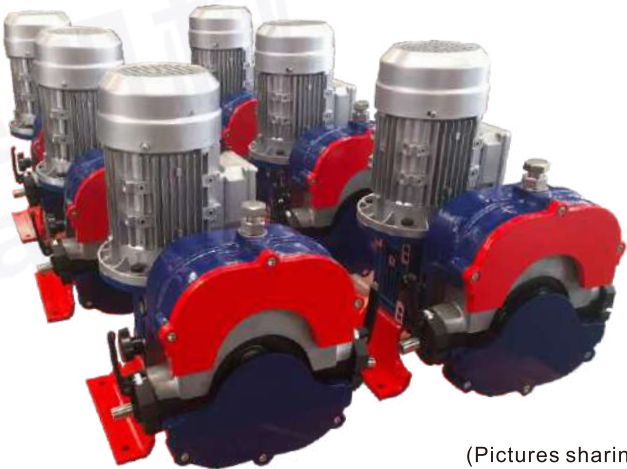
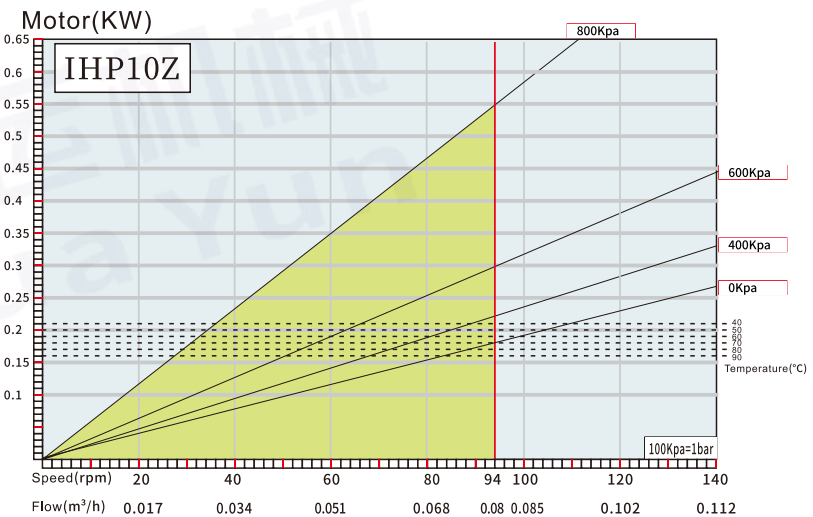
Products dimension

Model	A	B	C	D	E	F	G	H	L	M	N	O	P	Unit : mm
														Input/output inner diameter
IHP5Z	427	104	11.5	220	246	300	25	200	250	310	302	100	Φ5	5
IHP10Z	427	104	11.5	220	246	300	25	200	250	310	302	100	Φ10	10
IHP15Z	427	104	11.5	220	246	300	25	200	250	310	302	100	Φ15	15

Curve of working

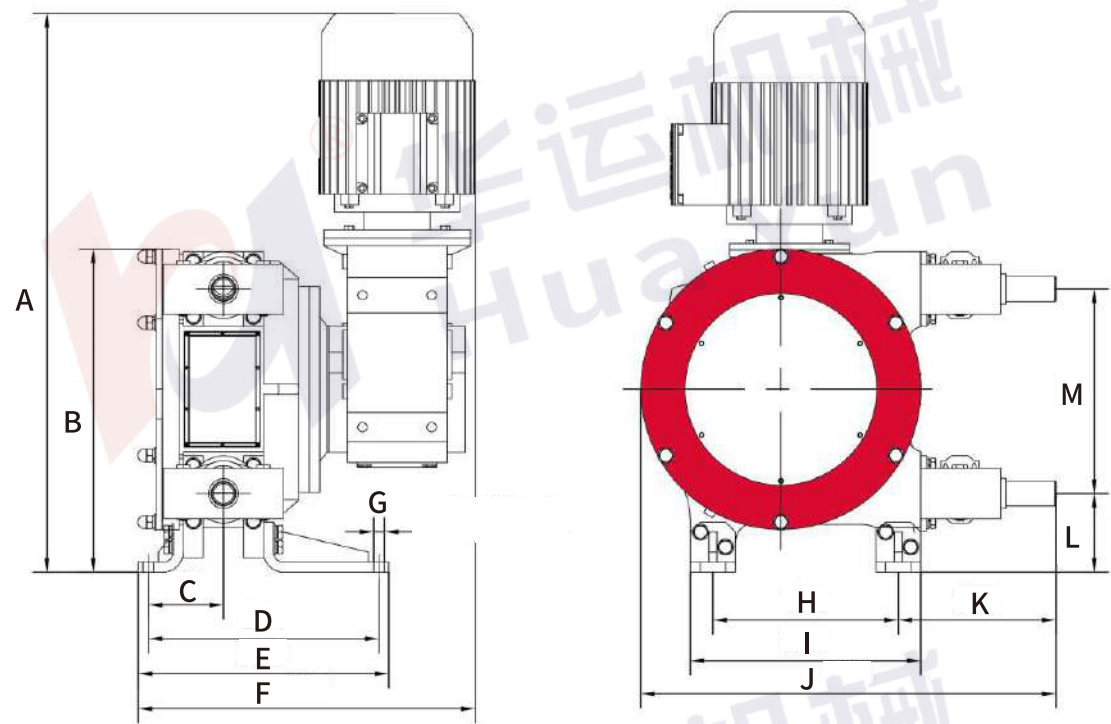


Continuous working Not recommending working



(Pictures sharing)

IHP-Z Single-pipe pump
(IHP20Z--32Z)



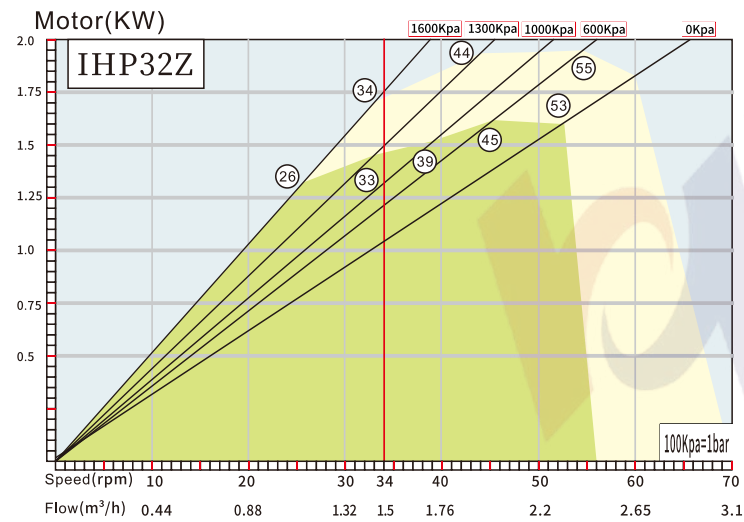
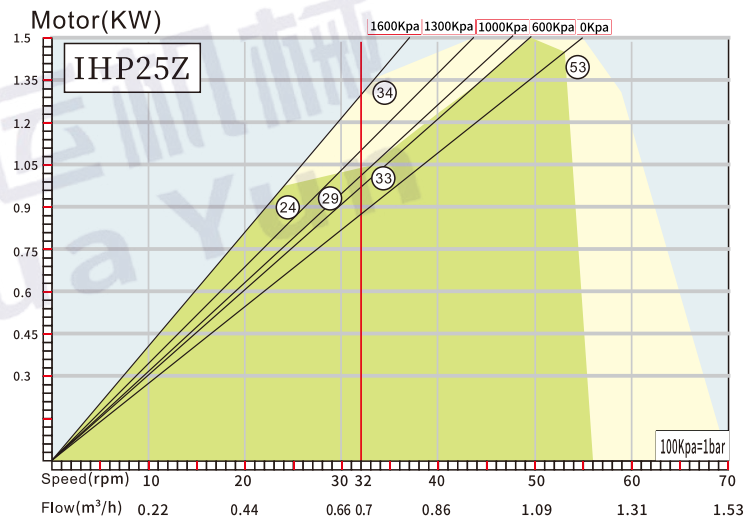
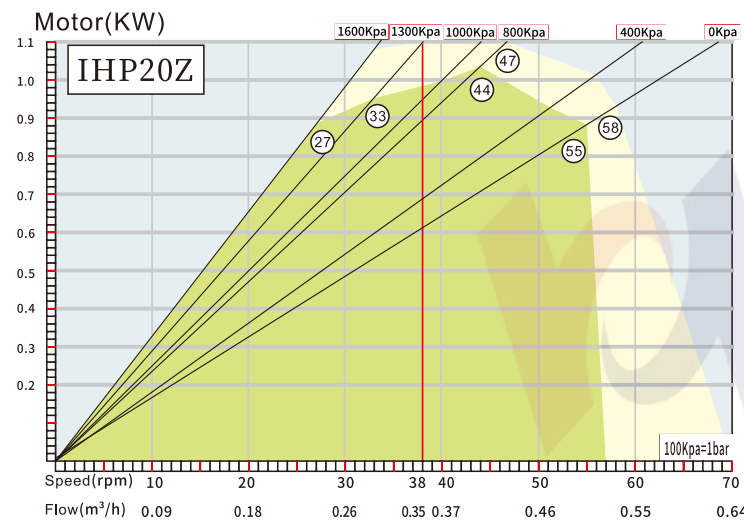
Products dimension

Unit : mm

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	Input/output inner diameter
IHP20Z	638	323	75	231	250	337	Φ11.5	185	230	415	158	79	204	20
IHP25Z	586	405	80	240	260	345	Φ11.5	235	285	499	172	85	270	25
IHP32Z	723	479	103	276	296	414	Φ11.5	275	325	558	168	88	332	32

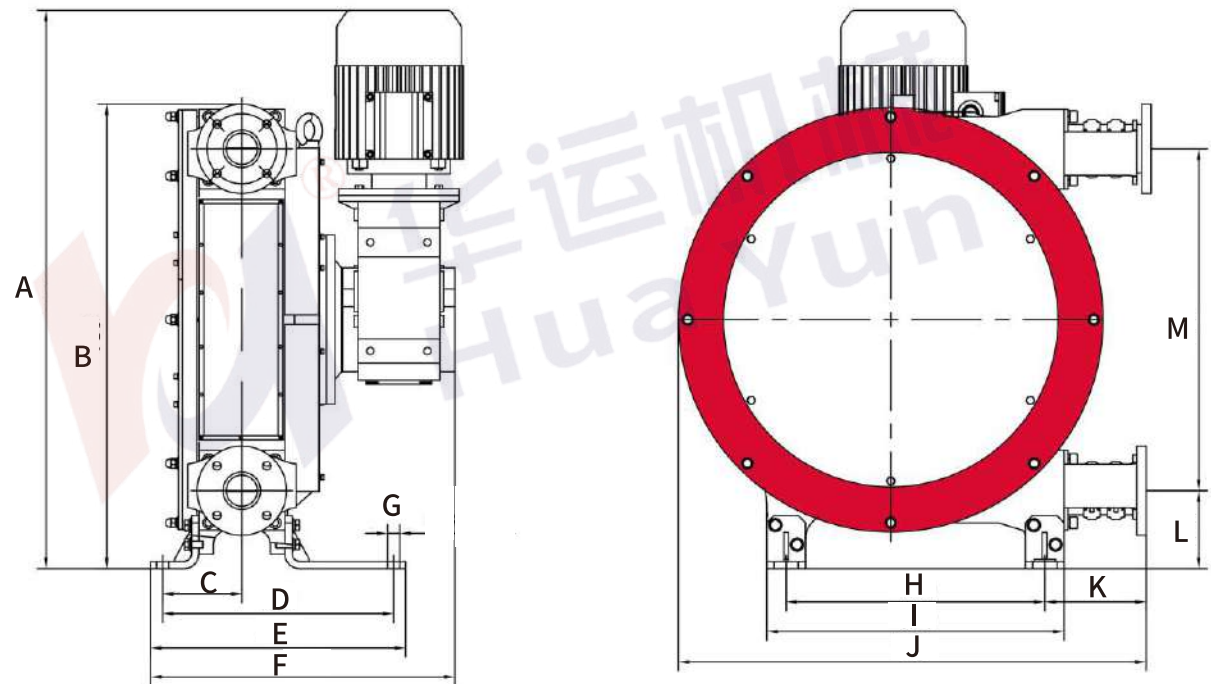
Curve of working

Continuous working Intermittent working Not recommending working



(Pictures sharing)

IHP-Z Single-pipe pump
(IHP40Z--80Z)



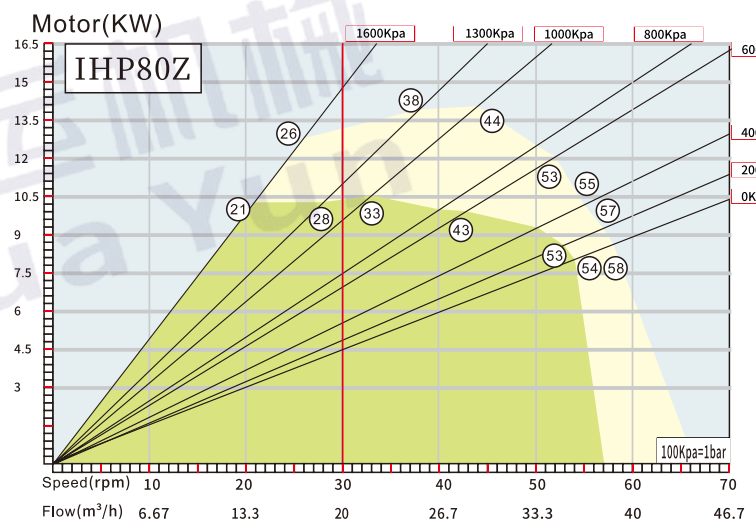
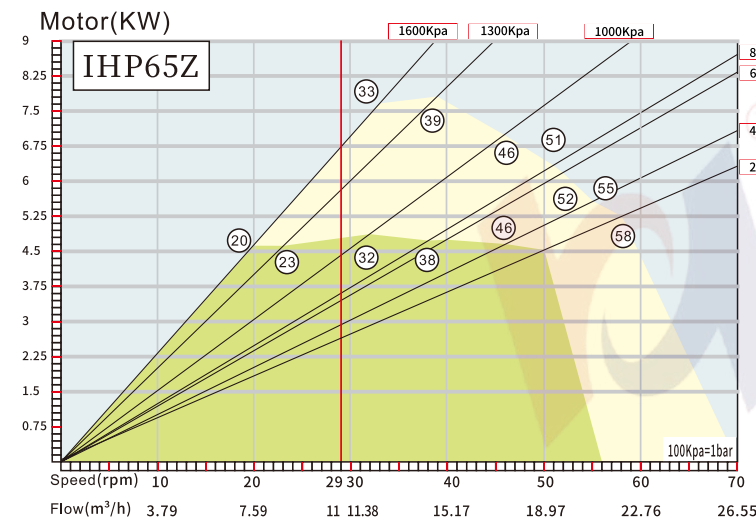
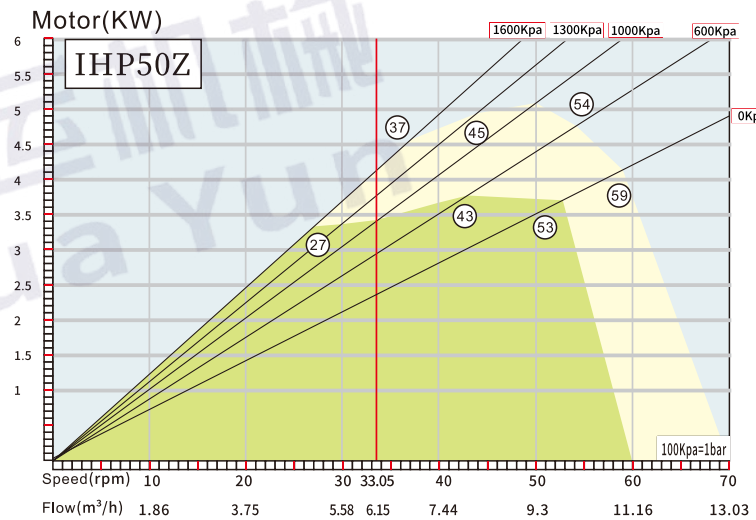
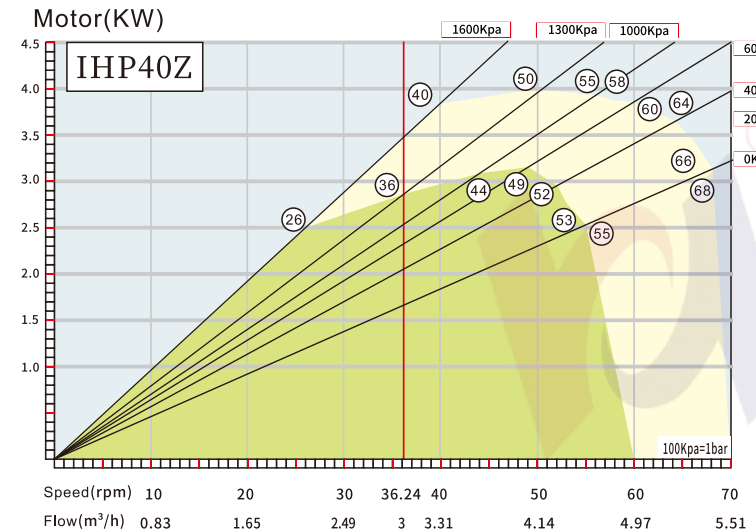
Products dimension

Unit : mm

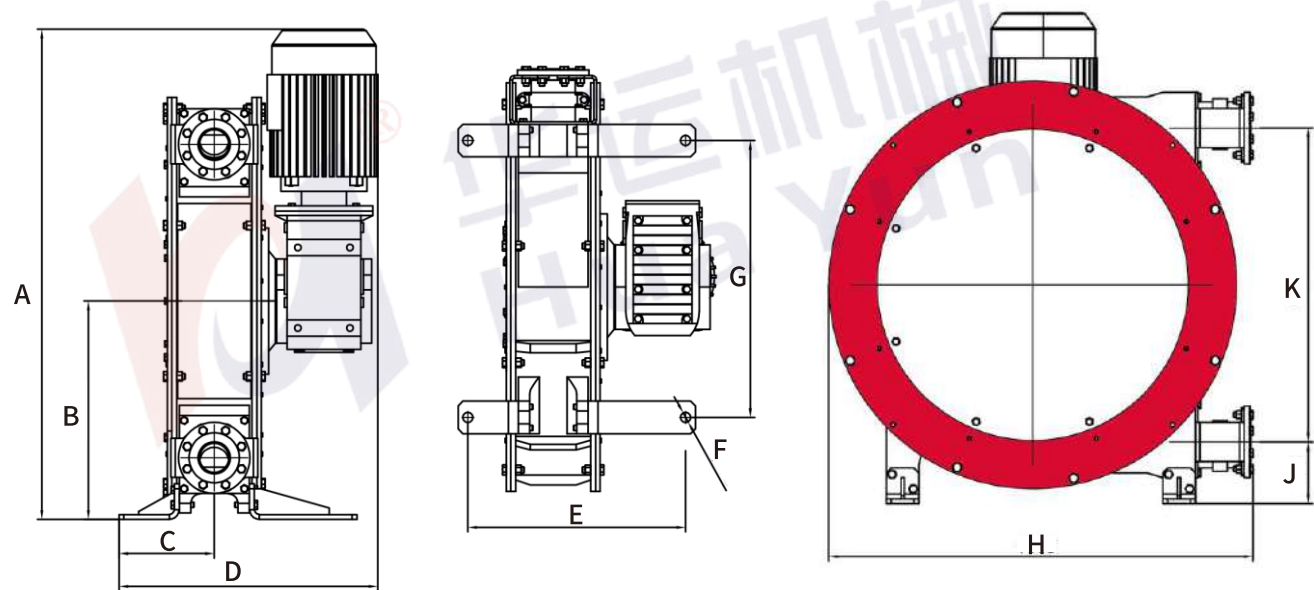
Model	A	B	C	D	E	F	G	H	I	J	K	L	M	Flange
IHP40Z	777	596	115	280	360	450	Φ13.5	325	390	641	175	107	430	DN40
IHP50Z	1131	780	150	400	450	580	Φ25.5	450	530	780	165	160	538	DN50
IHP65Z	1285	950	164	478	528	647	Φ25	535	615	1006	210	161.5	692	DN65
IHP80Z	1674	1133	219	603	668	770	Φ25.5	635	715	1178	205	167	864	DN80

Curve of working

Continuous working Intermittent working Not recommending working



IHP-Z Single-pipe pump
(IHP90Z--125Z)



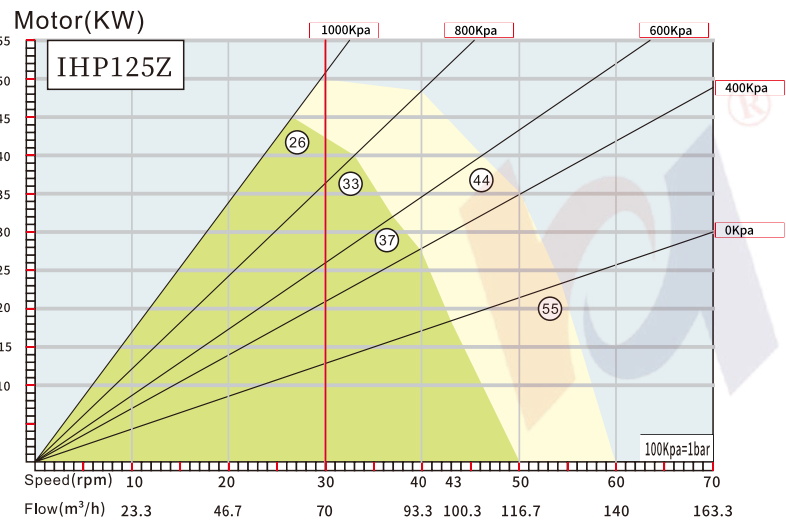
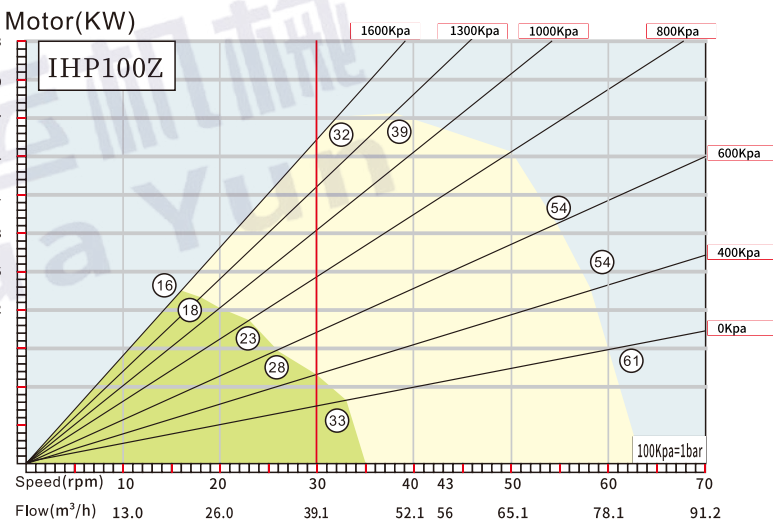
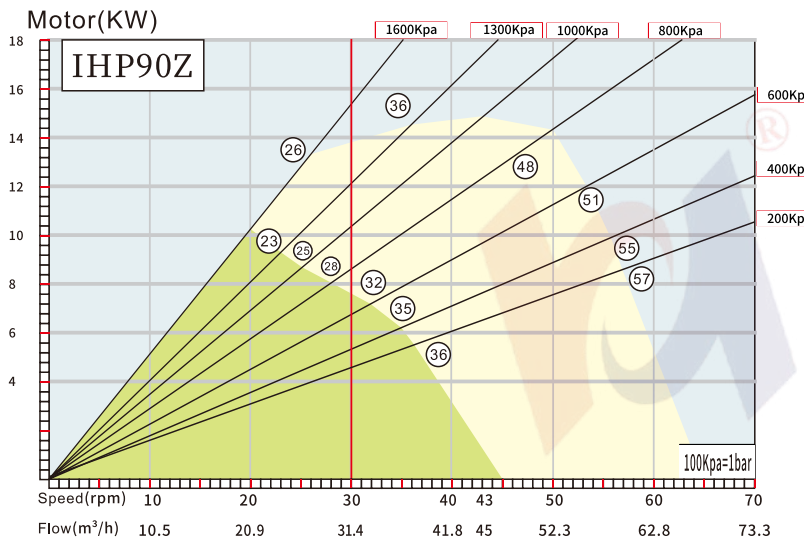
Products dimension

Unit : mm

Model	A	B	C	D	E	F	G	H	I	J	Flange
IHP90Z	1510	672.5	292	794	670	Φ32	850	1305	190	965	DN100
IHP100Z	1726	755	300	851	710	Φ32	970	1410	210	1080	DN100
IHP125Z	2070	985	423	1104	1006	Φ32	1150	1725	305	1360	DN125

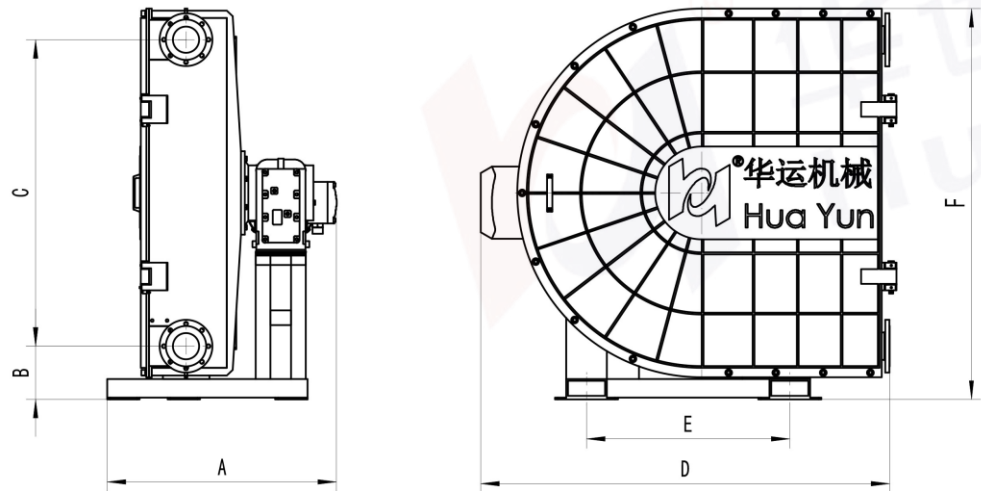
Curve of working

Continuous working Intermittent working Not recommending working



(Pictures sharing)

IHP-Z Single-pipe pump
(IHP150Z--180Z)



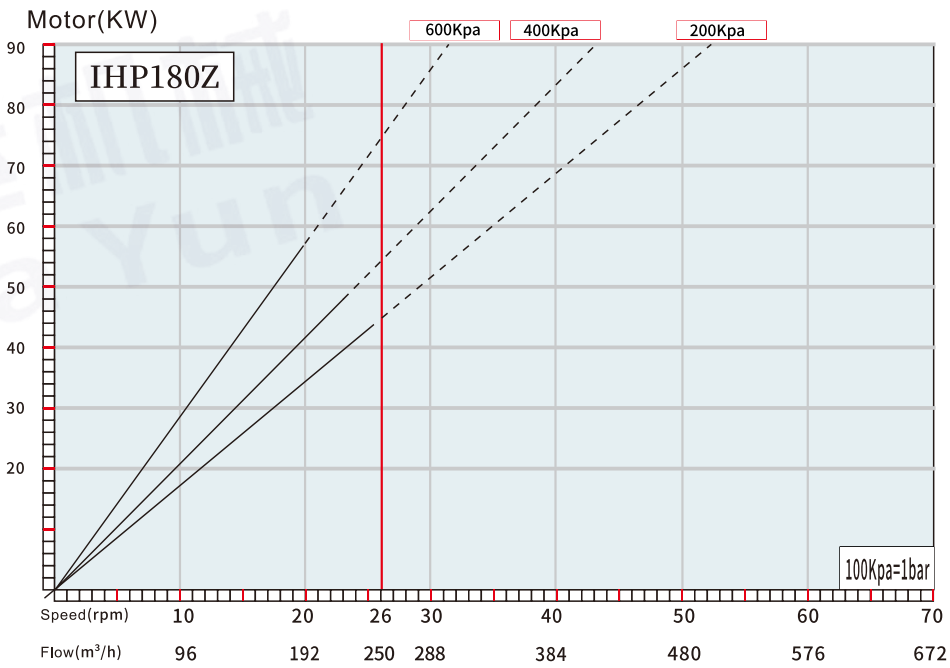
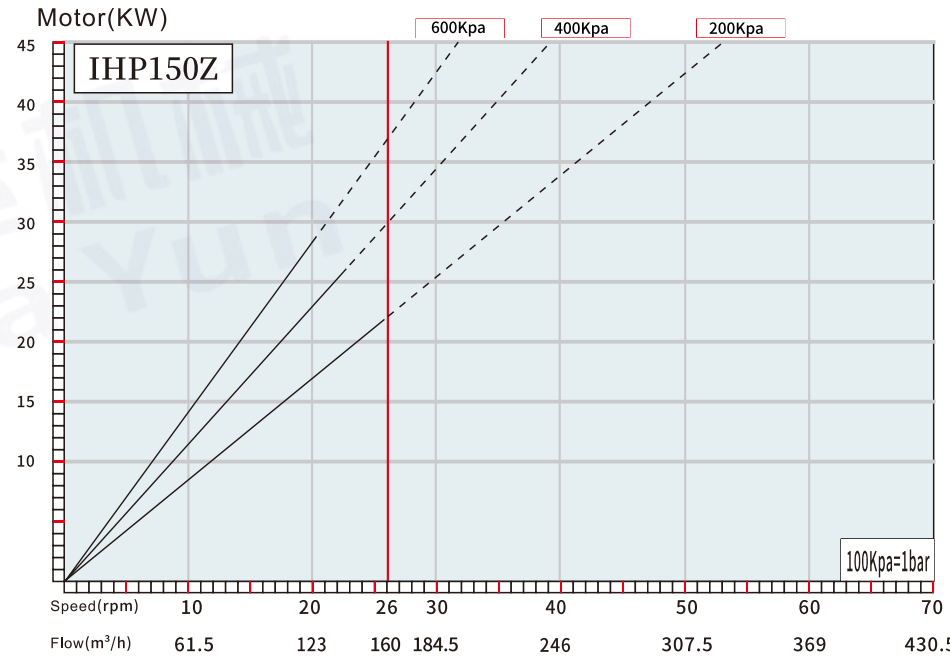
Products dimension

Unit : mm

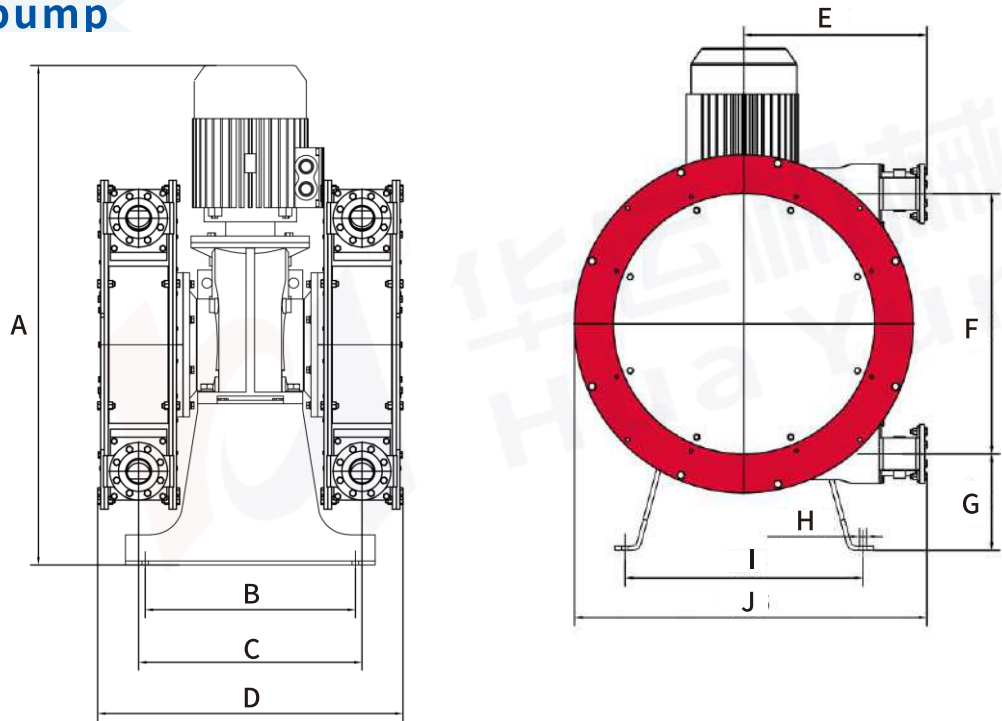
Model	A	B	C	D	E	F	Flange
IHP150Z	1235	287	1650	2205	1095	2105	DN150
IHP180Z	1241	302	1800	2466	1235	2285	DN200

Curve of working

Solid line: 24-hour continuous operation
Dotted line: intermittent operation



IHP-Z Double-pipe pump
(2IHP65Z--125Z)



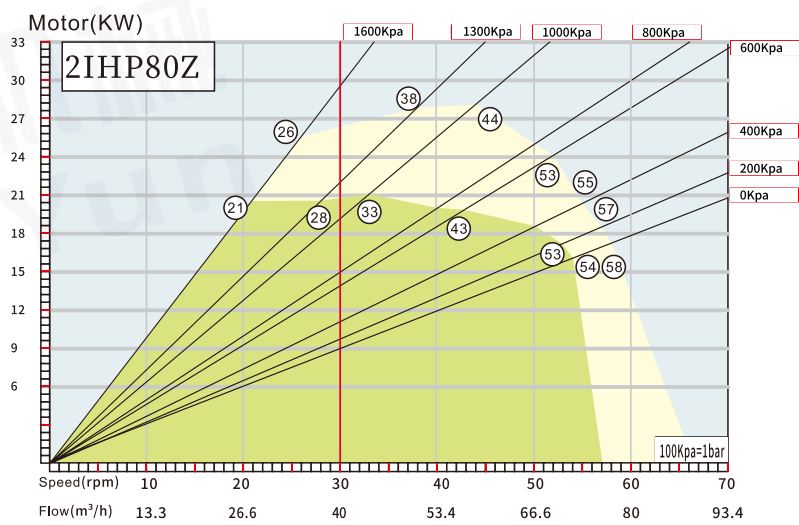
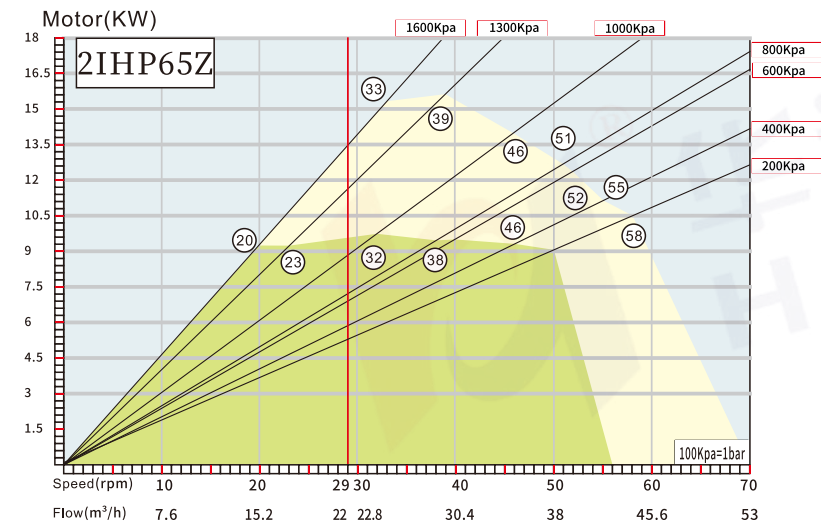
Products dimension

Unit : mm

Model	A	B	C	D	E	F	G	H	I	J	Flange
2IHP65Z	1420	500	760	1110	527	692	206	Φ25	720	947	DN100
2IHP80Z	1740	600	950	1294	581	864	243	Φ25	880	1111	DN100
2IHP90Z	2130	800	850	1163	677	965	357	Φ32	900	1305	DN100
2IHP100Z	2430	960	1000	1373	707	1080	364	Φ32	1060	1410	DN100
2IHP125Z	2730	1020	1210	1510	884	1360	426	Φ32	1120	1754	DN100

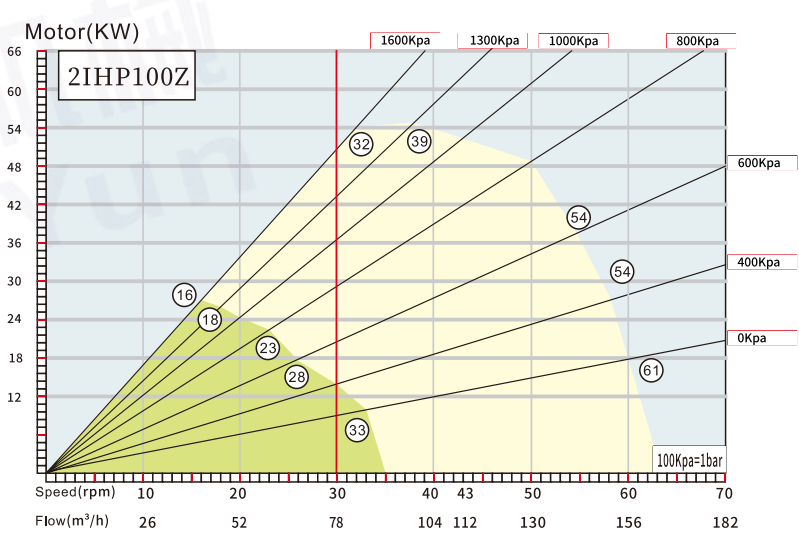
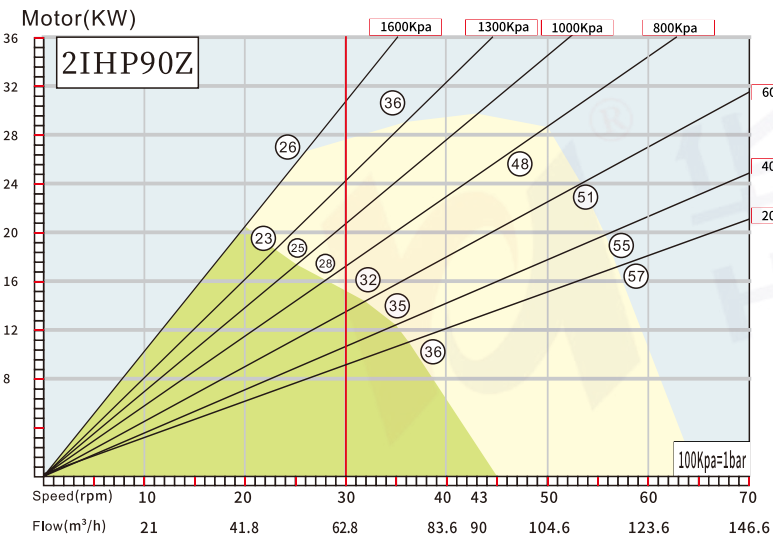
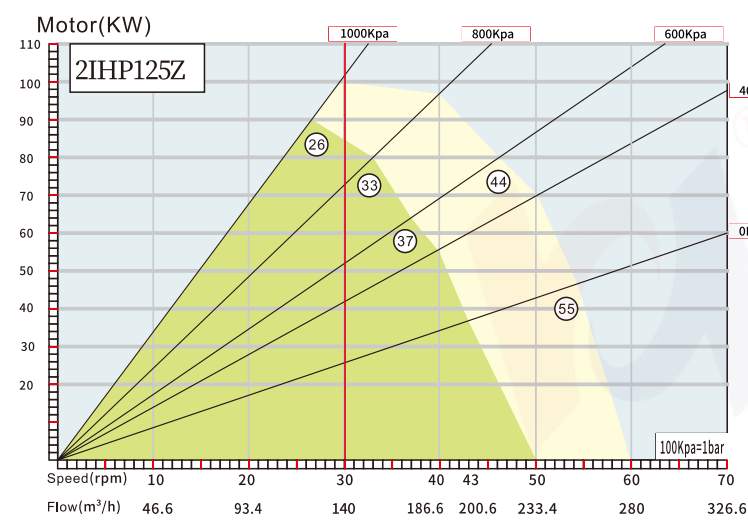
Curve of working

Continuous working Intermittent working Not recommending working

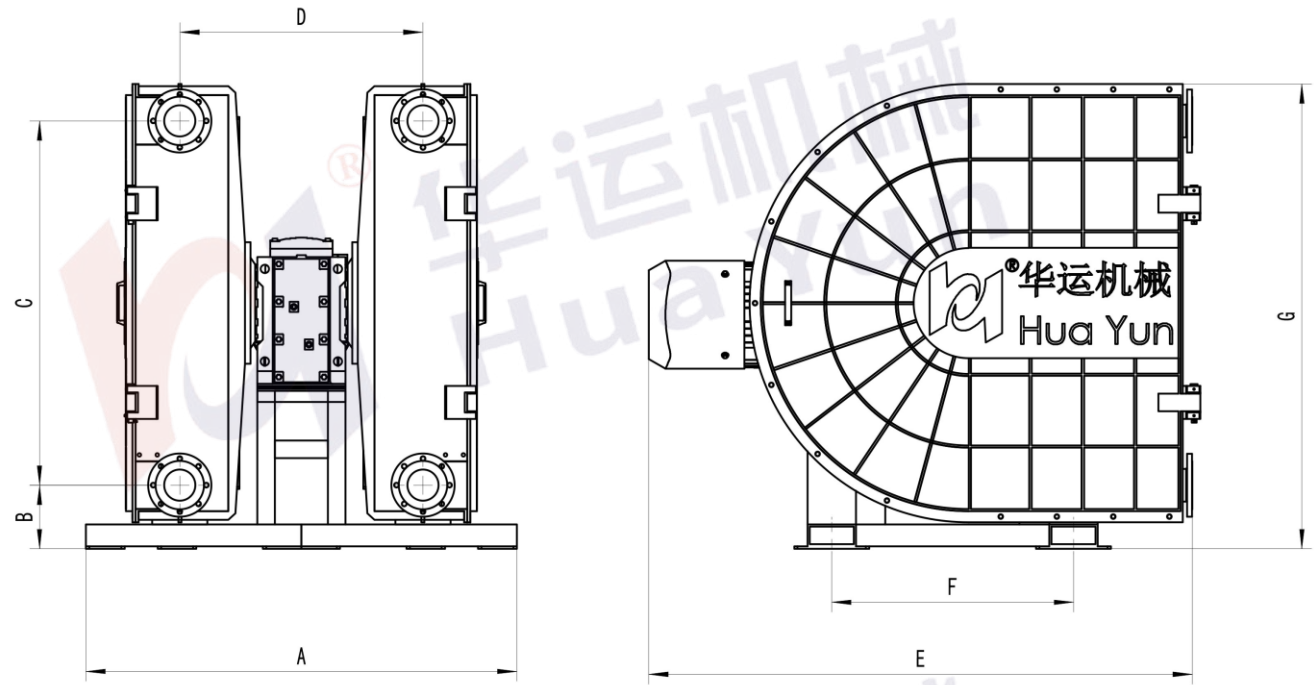


Curve of working

Continuous working Intermittent working Not recommending working



IHP-Z Double-pipe pump
(2IHP150Z--180Z)



Products dimension

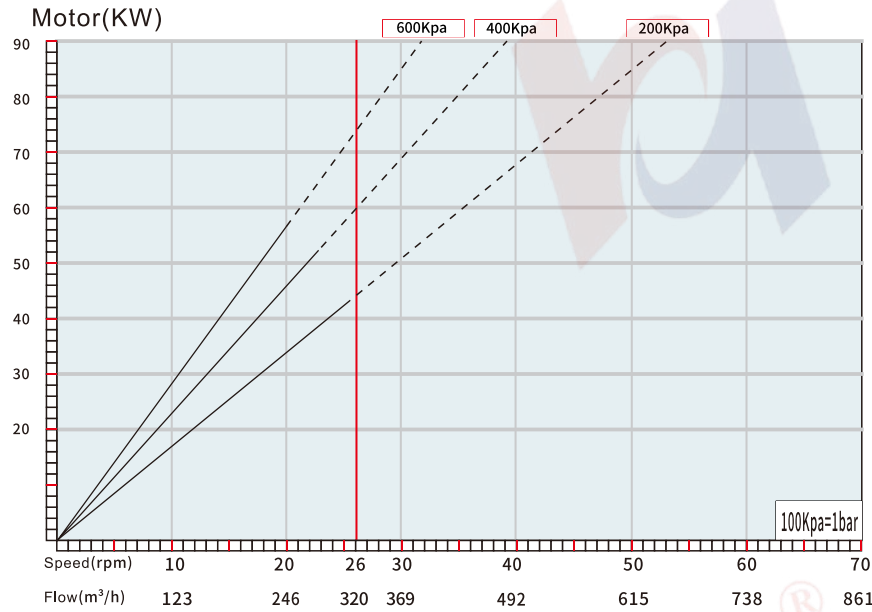
Unit : mm

Model	A	B	C	D	E	F	G	Flange
2IHP150Z	1952	287	1650	1102	2464	1095	2015	DN150
2IHP180Z	2190	302	1800	1290	2853	1285	2285	DN200

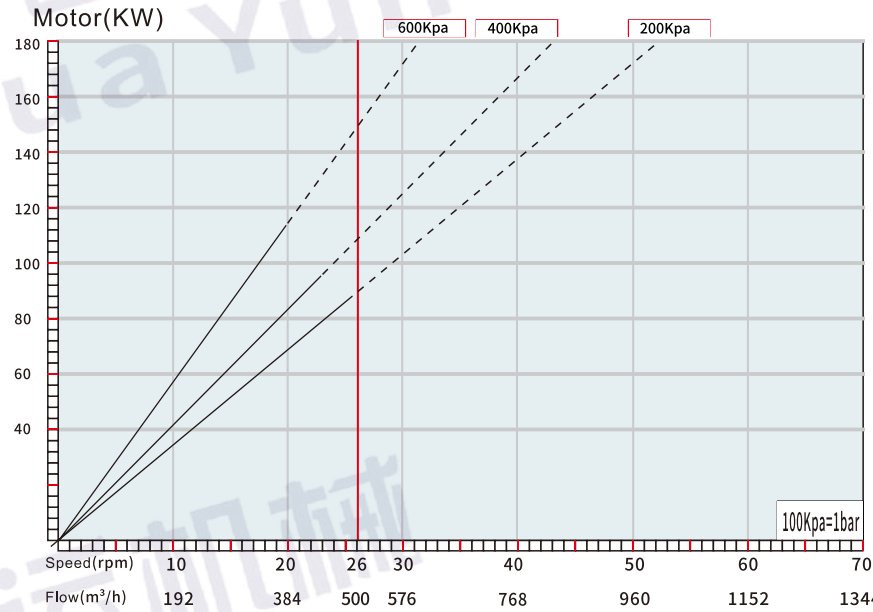
Curve of working

Solid line: 24-hour continuous operation Dotted line: intermittent operation

2IHP150Z



2IHP180Z





Outlet pulsation damper

The addition of a pulsation damper at the pump outlet eliminates 92% of the outlet pulsation, protects the pump, piping and piping equipment, and reduces the vibration, hammering and noise of the piping.

Inlet pulsation damper

Installed on the inlet side, when the inlet operating conditions change, the positive and negative pressure peaks on the inlet pipeline can be effectively reduced, which can make the pump run quietly without noise and can increase the service life of the pump.



Smoothing filter

Hefei Huayun Machinery HYPB straight-through smoothing device is mainly composed of an internal hose and an external tank body, with docking flanges at both ends of the tank body. This product is used in the conveying pipeline of intermittent pumping materials such as hose pumps, piston pumps, screw pumps, diaphragm pumps, etc. It can be connected to any part of the conveying pipeline to eliminate the pulsation caused by intermittent pumping, and complete the smooth conveying of conveyed materials, accurate metering, batching, etc.



Inverter

If the pump's flow requirements are variable and the process needs to be controlled, an additional frequency converter can be added



Leak alarm

Connected to the motor control system. Once the hose is broken during use, the material enters the pump chamber. The alarm probe detects will outputs a signal to the control system to stop the pump from operating.

Peristaltic Hose



Huayun produces pump hose independently

The hose of the peristaltic hose pump is the core component that determines the performance, durability and efficiency of the peristaltic hose pump. Hefei Huayun has a unique chemical formula developed independently and uses high-quality synthetic rubber to produce the pump hoses. The rubber is reinforced with multi-layered material and subjected to high-precision machining. Therefore, the hose can be completely compressed. There will not be any leakage, and other types of pumps will damage the shear sensitive materials due to backflow, reduce the metering accuracy, or caused the abrasive materials to erode the components. The peristaltic hose pump which produced by Hefei Huayun including the hose can be a good solution to such incurable diseases.

Huayun has its own hose manufacturing technology and capability, so it has more advantages in quality and cost control. To meet the needs of our own hose pump, we can be specially designed for all other hose pump brands to replace hose.

Composition of pump hose

The hose is the core part of the hose pump. The hose independently developed by Hefei Huayun adopting the international standard structure winding method and is composed of inner layer, reinforcement layer and outer rubber. The service pressure can reach 1.6mpa and the service life is long.

① The outer rubber

Material: natural and synthetic rubber matching material
Advantages: good adhesion with reinforcing fiber layer, high wear - resistant formula material

② Reinforced layer

Material: Rubber and synthetic fiber cord composite material
Advantages: High strength, fatigue resistance, corrosion resistance and abrasion resistance of synthetic fiber, after special treatment, the rubber hose adhesive material maintains the excellent adhesion strength

③ The inner rubber

Materials: natural rubber, EPDM, NBR rubber, CSM, fluoro rubber
Advantages: high elasticity, high strength, high wear-resisting adhesive, good elasticity recovery

Optional for hose material



Natural Rubber(NR)

Excellent abrasion resistance,
generally resistant to dilute
acid and ethanol
Fluid maximum temperature: 80°C
Fluid minimum temperature: -20°C



NBR

Oil, grease, alkali and
detergent resistance,
Fluid maximum temperature: 80°C
Fluid minimum temperature: -10°C



EPDM

Excellent chemical resistance,
especially resistant to concentrated
acids and ethanol
Fluid maximum temperature: 90°C
Fluid minimum temperature: -10°C



Chlorosulfonated polyethylene rubber (CSM)

High-quality anti-hardening,
antioxidant products and
concentrated acid and
concentrated alkali
Fluid maximum temperature: 90°C
Fluid minimum temperature: -10°C



Food Grade Hose(F-NBR)

Meets the latest FDA, EU,
3A standards, resistant oil,
grease, alkali and detergent
Fluid maximum temperature: 80°C
Fluid minimum temperature: -10°C



Tetrapropyl fluororubber (AFLAS)

Tetrapropyl fluororubber (AFLAS)
High strength, good chemical
corrosion resistance
Maximum fluid temperature: 90°C
Minimum fluid temperature: -10°C

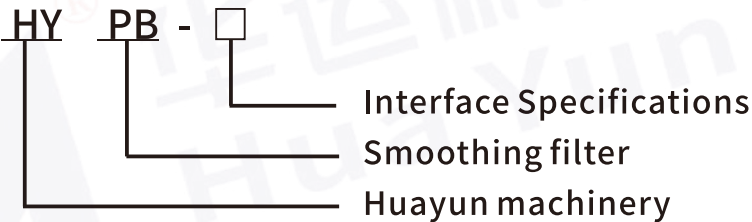
HuayunSmoothing filter

Hefei Huayun Machinery HYPB straight-through smoothing device is mainly composed of an internal hose and an external tank body, with docking flanges at both ends of the tank body. This product is used in the conveying pipeline of intermittent pumping materials such as hose pumps, piston pumps, screw pumps, diaphragm pumps, etc. It can be connected to any part of the conveying pipeline to eliminate the pulsation caused by intermittent pumping, and complete the smooth conveying of conveyed materials, accurate metering, batching, etc.



The internal hose of the tank body is pressed with different rubbers and can withstand the conveying of various concentrations of acid, alkali, salt solutions and oils, slurry, food and medicine media. After years of use by users in various industries, Huayun Machinery HYPB straight-through smoothing device is the product with the best smoothing performance.

型号表示



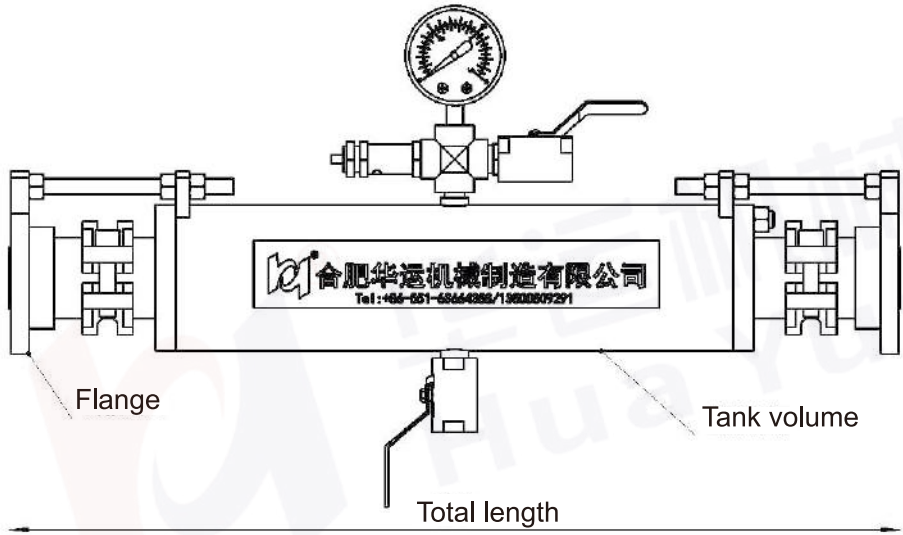
For example:

HYPB-34 means: Huayun Machinery soft smoothing device interface specification DN34

HYPB-50 means: Huayun Machinery soft smoothing device interface specification DN50

HYPB-80 means: Huayun Machinery soft smoothing device interface specification DN80

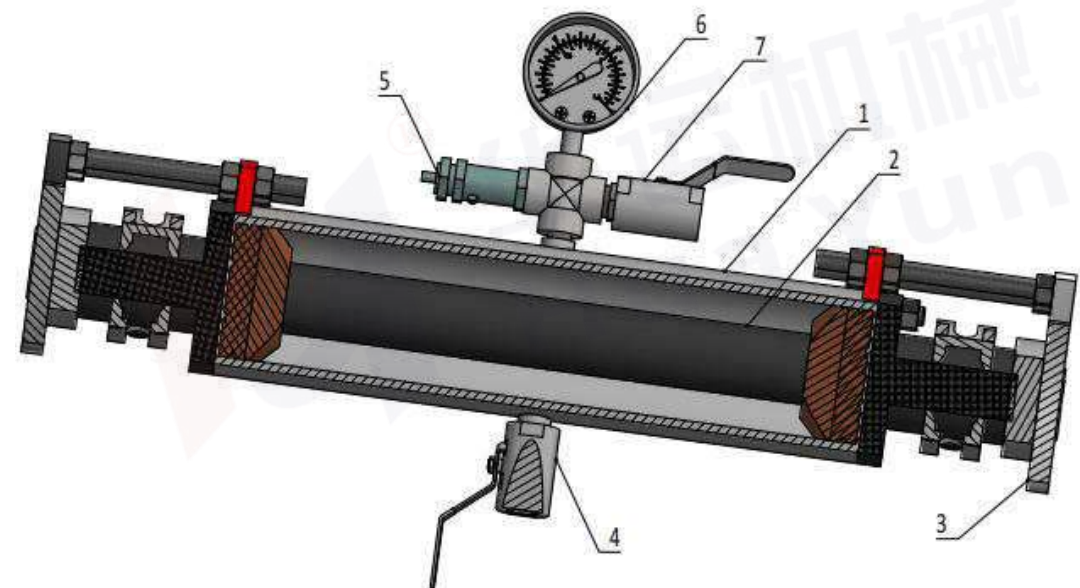
Product Parameters



Product Parameters						
Model	Nominal diamete	Tank volume	Flange	Inflation pressure	Total length	Flat Wave Rate
HYPB-20	DN20	6.84L	DN20	0-0.6MPa	880mm	85-100%
HYPB-25	DN25		DN25	0-0.6MPa		85-100%
HYPB-32	DN32		DN32	0-0.6MPa		85-100%
HYPB-34	DN34		DN34	0-0.6MPa		85-100%
HYPB-40	DN40	25.85L	DN40	0-0.6MPa	1240mm	85-100%
HYPB-45	DN45		DN45	0-0.6MPa		85-100%
HYPB-50	DN50		DN50	0-0.6MPa		85-100%
HYPB-65	DN65	50.66L	DN65	0-0.6MPa	1450mm	85-100%
HYPB-75	DN75		DN75	0-0.6MPa		85-100%
HYPB-80	DN80		DN80	0-0.6MPa		85-100%

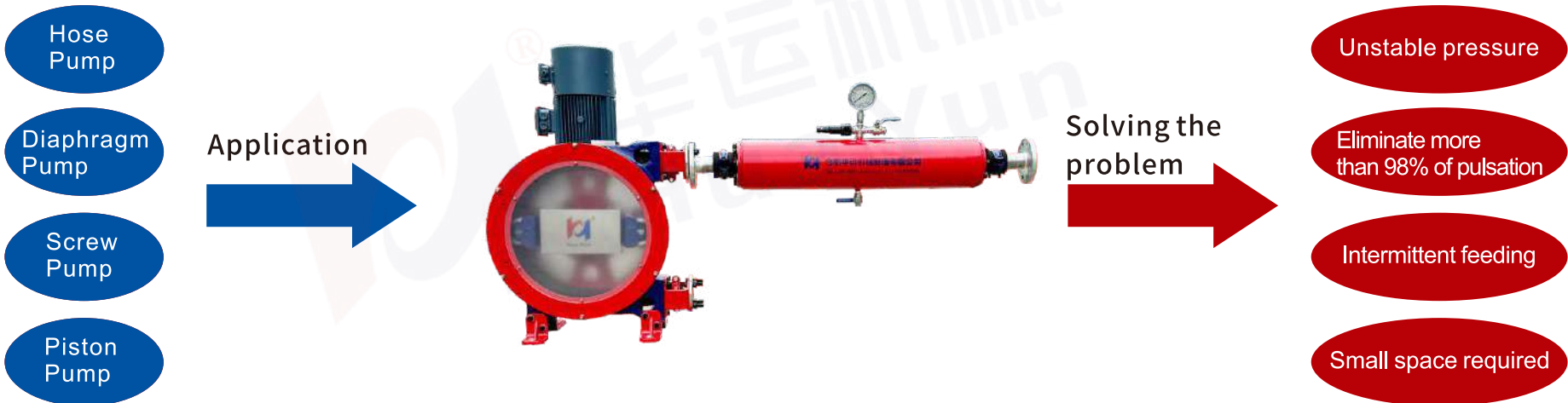
Note: The flat wave rate in the table is experimental data with water as the material.

华运平波器结构特点

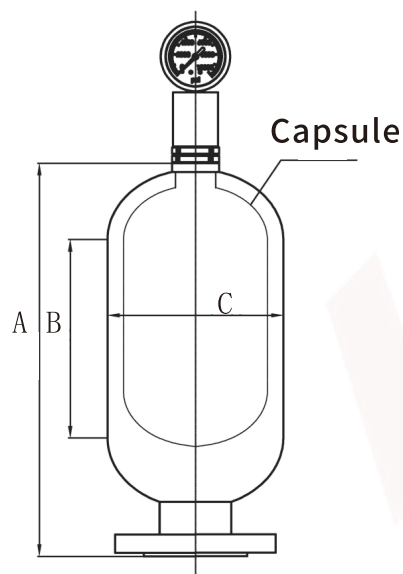


- 1. Tank
- 2. Hose
- 3. Butt flange
- 4. Exhaust valve
- 5. Safety pressure relief valve
- 6. Barometer 7. Inflatable valve

Application



Huayun Damper



Hose pump model	Damper capsule model	A	B	C
15Q-40Q	5L buffer tank, 2.5L capsule	350	190	φ168
50Q-65Q	14L buffer tank, 4L capsule	460	300	φ219
80Q-125Q	46L buffer tank, no capsule	650	450	φ325

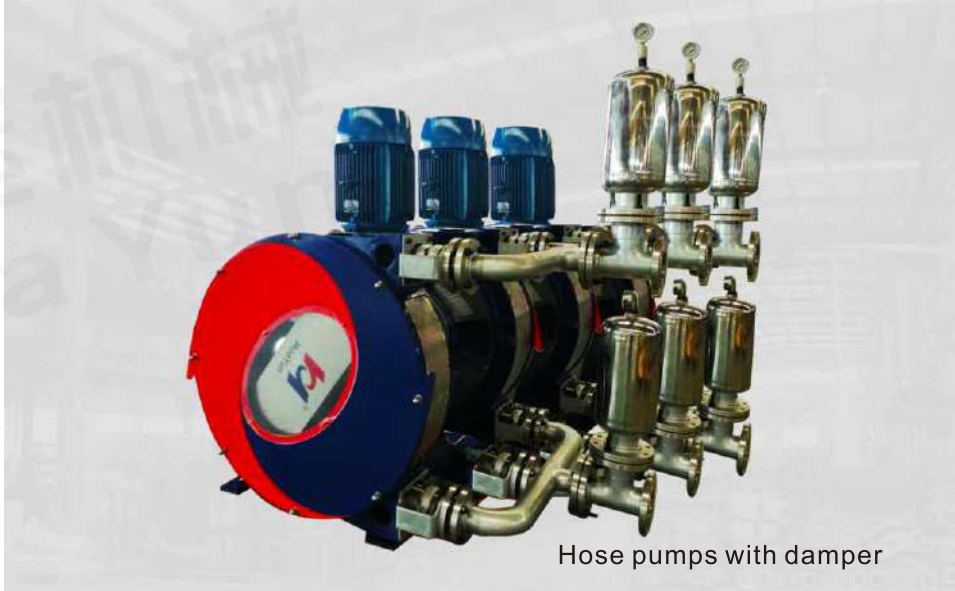
Application



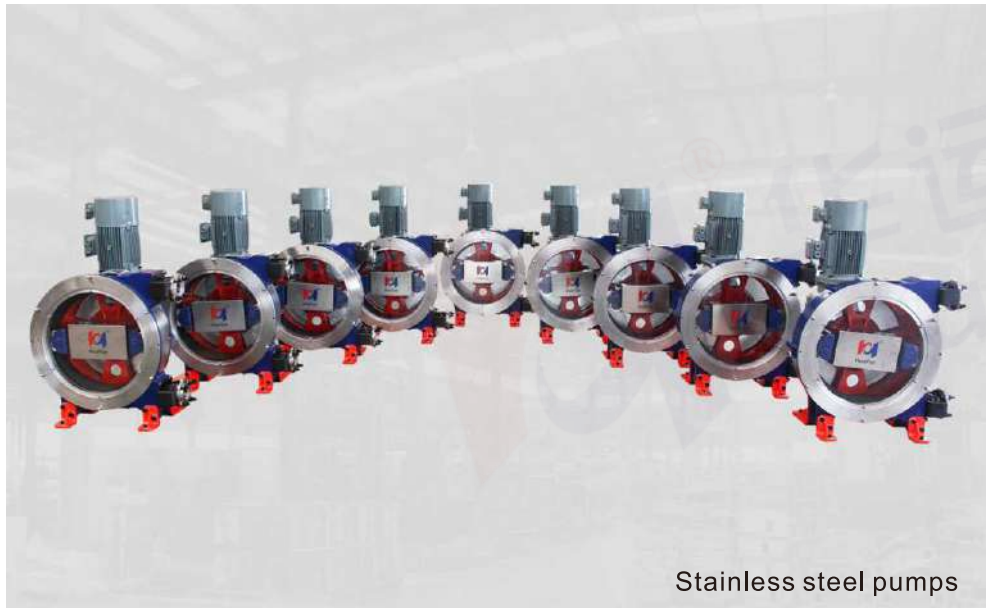
Pictures sharing



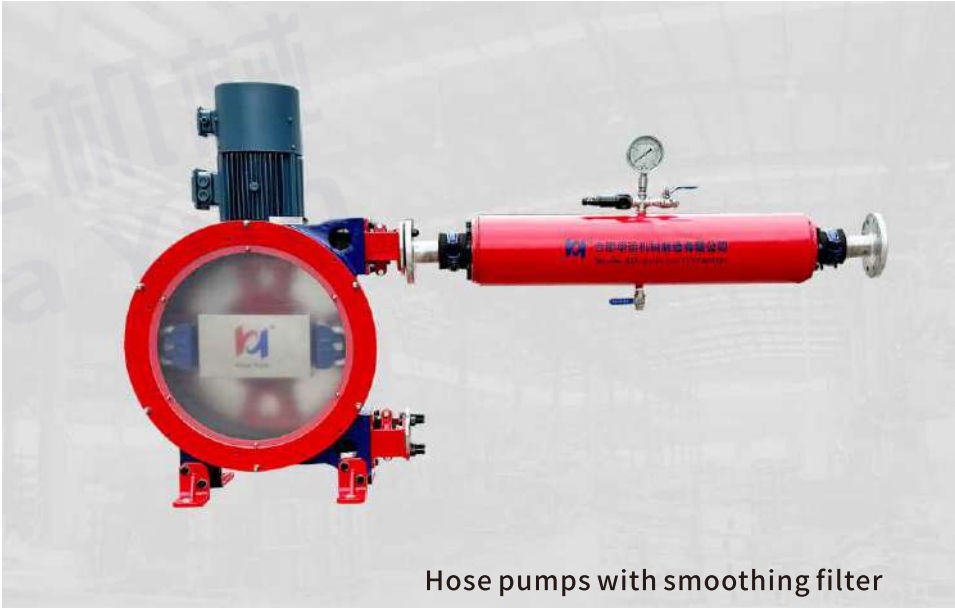
Standard pumps



Hose pumps with damper



Stainless steel pumps



Hose pumps with smoothing filter

Pictures sharing



Pictures sharing



Hydraulic motor pumps



Pneumatic motor pumps

Pictures sharing



Movable hose pumps



Hose pumps for grape delivery



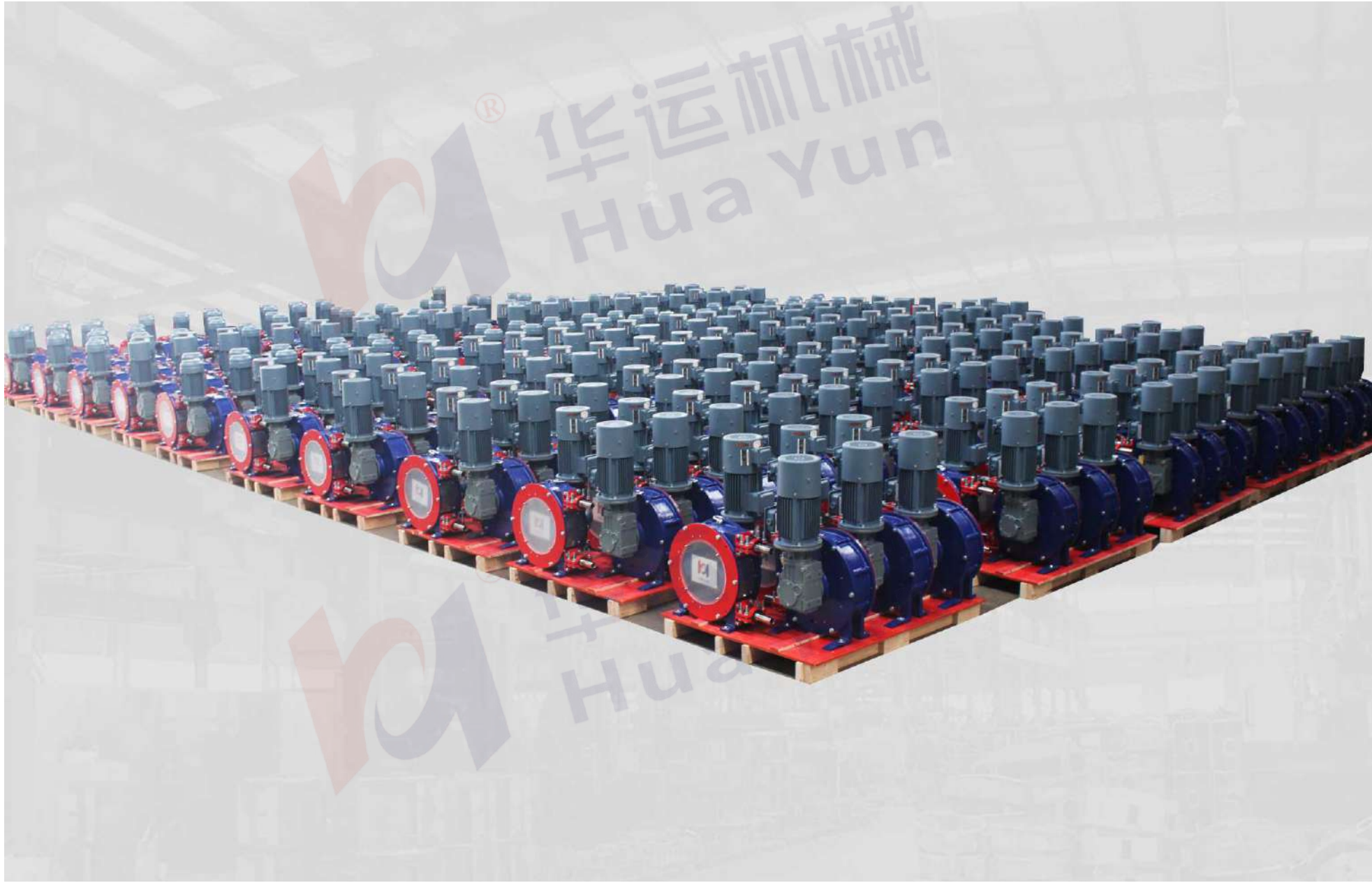
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