

**Cangzhou Hangyuan Pump Co.,Ltd**

*Provide you with the perfect fluid delivery  
solution*



**航源泵业**  
Hangyuan Pump

*Excellent quality and trustworthy*

**沧州航源泵业有限公司**

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扫一扫 加好友



Quality creates excellence

Service wins the market

CoMPANY PROFILE

Cangzhou Hangyuan Pump Industry Co., Ltd. is located in Bo Town, Botou City, Cangzhou City, Hebei Province. The factory is adjacent to the Beijing-Shanghai Railway and 104 National Highway to the east and 106 National Highway to the west. It has convenient transportation and is a comprehensive enterprise integrating production and sales. Our company has technical strength, complete production equipment, and testing systems. Since then, it has been introducing production technology and using quality systems as standards to test the quality of products,so that the products are always at a high level in the same industry and ensure that users can rest assured. product.

Our company's products include stainless steel pump series, gear pump series: KCB gear pump, YCB gear pump, 2CY gear pump and other products; magnetic pump series, high temperature insulation pump series: RY high temperature heat transfer oil pump, LQB asphalt insulation pump, etc.; diaphragm pump series , Industrial hose pump series, sliding vane pump series, centrifugal pump series: IS clean water centrifugal pump, ZW sewage self-priming pump, CYZ self-priming centrifugal pump, etc.; asphalt pump series, screw pump series: G single screw pump, 3G screw pump etc.; hand pump series, rotor pump series: NYP internal meshing rotor pump, NCB high viscosity rotor pump, LC Roots pump, etc. Widely used in water supply and drainage, HVAC, fire protection, tap water, chemical industry, fertilizer, metallurgy, dust removal, pharmaceutical products, petroleum, chemical industry, shipbuilding, electric power and other industries.

Cangzhou Hangyuan Pump Industry Co., Ltd. will take this as a new starting point and continue to maintain its advantages in technology, product quality, and corporate reputation. Establish a correct outlook on development, continuously improve the company's overall quality, enhance market competitiveness, and promote the company's development to a new level. The development of enterprises cannot be separated from technology, talents and users. We are willing to establish stable, equal and mutually beneficial business relationships with customers from all over the world, so that we can develop and prosper together. Our company regards quality as its life and regards the actual interests of customers and its own long-term development as one. The company has done every job in a down-to-earth manner and won the trust of the majority of users step by step. We wholeheartedly serve new and old users and work with you to create brilliance!

Details determine success  
Quality is created

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1、application

Transporting lubricating oil or similar properties that does not contain solid particles and fibers, has a temperature not higher than 300°C, and a viscosity of 5x10<sup>6</sup>~1.5x10<sup>-3</sup>m<sup>2</sup>/s (5-1500cSt) Lubricants and other liquids.

Reduce the speed of the pump and the viscosity of the conveyed medium can reach 5×10cSt.

2、Application scope

- It can be used as a transmission and booster pump in the oil delivery system;
- It can be used as a fuel pump for delivery, pressurization and injection in the fuel system;
- It can be used as lubricating oil pump in all industrial fields.

3、Structural features

The gear pump of this system mainly consists of gears, shafts, pump bodies, safety valves, shaft end seals (for special requirements, magnetic drive and zero leakage structure can be selected), etc. The gear has been heat treated to have higher hardness and strength, and is installed together with the shaft in a replaceable sleeve to run. The lubrication of all parts in the pump is automatically achieved by using the conveying medium when the pump is working.

There are well-designed oil drain grooves and oil return grooves in the pump, so that the gears bear the minimum torque force during operation, so the bearing load is small, the wear is small, and the pump efficiency is high.

The pump is equipped with a safety valve as overload protection. The total return pressure of the safety valve is 1.5 times the rated discharge pressure of the pump. It can also be adjusted according to actual needs within the allowable discharge pressure range. However, please note that this safety valve cannot be used as a pressure reducing valve for a long time and can be installed separately on the pipeline if necessary.

When viewed from the extended end of the main shaft towards the pump, it rotates clockwise.



Model	Capacity Q		Speed r/min	Pressure Mpa	NPSHm	Efficiency η%	Motor	
	m3/h	L/min					PowerK W	Model
KCB-18.3	1.1	18.3	1400	1.45	5	59	1.5	Y90L-4
2CY-1.1/1.45								
KCB-33.3	2	33.3	1420	1.45	5	59	2.2	Y100L1-4
2CY-2/1.45								
KCB-55	3.3	55	1400	0.33	7	41	1.5	Y90L-4
2CY-3.3/0.33								
KCB-83.3	5	83.3	1420	0.33	7	43	2.2	Y100L1-4
2CY-5/0.33								
KCB-135	8	135	940	0.33	5	46	2.2	Y112M-6
2CY-8/0.33								
KCB-200	12	200	1440	0.33	5	46	4	Y112M-4
2CY-12/0.33								
KCB-300	18	300	960	0.36	5	42	5.5	Y132M2-6
2CY-18/0.36								
KCB-483.3	29	483.3	1440	0.36	5.5	42	11	Y160M-4
2CY-29/0.36								
KCB-633	38	633	970	0.28	6	43	11	Y160L-6
2CY-38/0.28								
KCB-960	58	960	1470	0.28	6.5	43	18.5	Y180M-4
2CY-58/0.28								
KCB-1200	72	1200	740	0.6	7	43	37	Y280S-8
KCB-1600	95	1600	980				45	Y280S-6
KCB-1800	112	1800	740	0.6	7.5	43	55	Y315S-8
KCB-2500	150	2500	985				75	Y315S-6
KCB-2850	170	2850	740	0.6	8	44	90	Y315L1-8
KCB-3800	230	3800	989				110	Y315L1-6
KCB-4100	245	4100	743	0.6	8	44	132	Y355M1-8
KCB-5400	325	5400	989				160	Y355M1-6
KCB-5600	330	5600	744	0.6	8	44	160	Y355M2-8
KCB-7600	460	7600	989				200	Y355M3-6
KCB-7000	420	7000	744	0.6	8	44	185	Y355L1-8
KCB-9600	570	9600	989				250	Y355L2-6



1、application

Suitable for Turkish solid particles and fibers, non-dyed, temperature not exceeding 300°C, viscosity 5x10<sup>6</sup>~1.5x 10~m<sup>2</sup>/S (5-1500cSt) lubricating oil or other liquids with similar properties to lubricating oil and used in hydraulic transmission systems.

Reduce the speed of the pump and the viscosity of the conveyed medium can reach 5×10cSt.

2、Application scope

- Can be used as transmission and booster pump in oil delivery system;
- It can be used as a fuel pump for transportation, pressurization and injection in the fuel system;
- It can be used as a hydraulic pump to provide hydraulic power in hydraulic transmission systems;
- It can be used as lubricating oil pump in all industrial fields.

3、Structural features

This series of gear pumps mainly consists of gears, shafts, pump bodies, pump covers, bearing sleeves, shaft end seals, etc. The gear is manufactured with double arc sinusoidal tooth profile. Its most prominent advantage compared with involute gears is that there is no relative sliding of the tooth profile surfaces during the gear meshing process, so there is no wear on the tooth surfaces, smooth operation, no trapped liquid, low noise, long life and high efficiency. This pump breaks away from the constraints of traditional design, bringing gear pumps into a new field in design, production and use.

The pump is equipped with a safety valve as overload protection. The full return pressure of the safety valve is L5 times the rated discharge pressure of the pump. It can also be adjusted according to actual needs within the allowable discharge bottom force range. However, please note that this safety valve cannot be used as a pressure reducing valve for a long time and can be installed separately on the pipeline if necessary.

The pump shaft end seal is designed in two forms, one is mechanical seal, and the other is packing seal, which can be determined according to specific usage conditions and user requirements. When viewed from the extended end of the main shaft towards the pump, it rotates clockwise.



Model	CapacityQ	Speed/ min	PressureM pa	NPSHm	efficiency %	Motor		
	m3/h					FrequencyHz	PowerK W	model
YCB0.6-0.6	0.6	960	0.6	5.5	32	50	0.75	Y90S-6
			1.6				1.5	Y100L-6
YCB1-0.6	1	1400	0.6	7.0	70	50	1.1	Y90L-4
			1.6				2.2	Y100L1-4
YCB1.6-0.6	1.6	960	0.6	5.5	42	50	0.75	Y90S-6
			1.6				1.5	Y100L-6
2.5-0.6	2.5	1440	0.6	7.0	71	50	1.1	Y90S-4
			1.6				2.2	Y100L1-4
YCB3.3-0.6	3.3	960	0.6	5.0	60	50	1.5	Y100L-6
			1.6				3	Y132S-6
YCB4-0.6	4.0	960	0.6	5.0	60	50	1.5	Y100L-6
			1.6				3	Y132S-6
YCB5-0.6	5.0	1500	0.6	7.0	72	50	2.2	Y100L-4
			1.6				4	Y112M-4
YCB6-0.6	6.0	1500	0.6	7.0	70	50	2.2	Y100L1-4
			1.6				4	Y112M-4
YCB8-0.6	8.0	960	0.6	5.0	61	50	3	Y132S-6
			1.6				5.5	Y132M2-6
YCB10-0.6	10.0	960	0.6	5.0	62	50	4	Y132M1-6
			1.6				7.5	Y160M-6
YCB12-0.6	12.0	1500	0.6	7.0	76	50	5.5	Y132S-4
			1.6				11	Y160M-4
YCB15-0.6	15.0	1500	0.6	5.0	68	50	5.5	Y132S-4
			1.6				11	Y160M-4
YCB20-0.6	20.0	960	0.6	5.0	68	50	7.5	Y160M-6
			1.6				15	Y180L-6
YCB25-0.6	25.0	960	0.6	5.5	69	50	11	Y160L-6
YCB30-0.6	30.0	960	0.6	5.5	70	50	11	Y160L-6
YCB40-0.6	40.0	960	0.6	5.5	72	50	15	Y180L-6
YCB50-0.6	50.0	960	0.6	5.5	72	50	22	Y200L2-6
YCB60-0.6	60.0	960	0.6	5.5	72	50	30	Y225M-6

1、application

Suitable for transporting lubricating oil or other liquids with similar properties to lubricating oil and used in hydraulic transmission systems that do not contain solid particles and fibers, the temperature is not higher than 300°C, and the viscosity is 5x10<sup>6</sup>~1.5×10<sup>9</sup>m<sup>2</sup>/s (5-1500cSt) .

Reduce the speed of the pump and the viscosity of the conveyed medium can reach 5×10cSt.

2、Application scope

- Can be used as transmission and booster pump in oil delivery system;
- It can be used as a fuel pump for conveying, pressurizing and injecting in the fuel system;
- It can be used as a hydraulic pump to provide hydraulic power in hydraulic transmission systems;
- It can be used as lubricating oil pump in all industrial fields.

3、Structural features

This series of gear pumps mainly consists of gears, shafts, pump bodies, pump covers, bearing sleeves, shaft end seals (for special requirements, magnetic drive and zero leakage structure can be selected), etc. The gears have higher hardness and wear resistance after nitriding treatment. Installed together with the shaft and running in a replaceable bushing. The lubrication of all parts in the pump is automatically achieved by using the conveying medium when the pump is working.

The four bearing sleeves in the pump are installed floatingly in the pump body, and the end clearance is automatically adjusted according to the working pressure. Therefore, the pressure of the pump is stable, the output flow pulsation is small, and the volumetric efficiency is high. When viewed from the extended end of the main shaft towards the pump, it rotates clockwise.

When viewed from the extended end of the main shaft towards the pump, it rotates clockwise.



Model	CapacityQ		Speed r/min	Pressur MPa	NPSH m	Efficiency %	Motor	
	M3/h	L/min					Power Kw	Model
2CY-1. 08/2. 5	1. 08	18	1420	2. 5	5. 5	58	2. 2	YI00L1-4
2CY-2. 1/2. 5	2. 1	35	1420	2. 5	5. 5	58	3	Y100L2-4
2CY-3/2. 5	3	50	1440	2. 5	5. 5	59	4	Y112M-4
2CY-4. 2/2. 5	4. 2	70	1440	2. 5	5. 5	62	5. 5	Y132S-4
2CY-7. 5/2. 5	7. 5	125	1440	2. 5	5. 5	63	7. 5	Y132M-4
2CY-12/2. 5	12	200	1460	2. 5	5. 5	61	15	Y160L-4
2CY-21/2. 5	21	350	1440	2. 5	5. 5	60	30	Y200L-

## 1、application

WCB gear oil pump (ordinary type, stainless steel type): WCB type gear oil pump is a low-pressure miniature portable energy-saving oil pump. It is most suitable for loading and unloading oil barrels in sales units without power supply. The pump adopts a bearing that is isolated from the transmission medium. Structure, the bearings are separately lubricated, the gears are made of alloy steel, and a special heat treatment process is adopted. The surface hardness of the gears can reach above HRC60, which has strong wear resistance and extends the life of the pump. Compared with ordinary gear pumps, this pump has strong applicability when transmitting liquids with no lubrication or poor lubrication or containing fine particles. It is a typical soap pump.

## 2、 Application scope

It is suitable for oil transportation in refineries, power plants, power stations, substations (rooms) and oil depots. Thin oil transfer in thin oil lubrication systems.

Such as: transporting non-lubricant oil, beverages, low-corrosive water, etc.



Model	Capacity Q L/min	Conveyin g height (m)	weight (kg)	Driving power (w)	using electric (v)	Material
WCB30	30	30	17	370	220	Castiron
WCB50	50	30	19	550	220	
WCB75	75	30	21	750	220	
WCB30P	30	30	17	370	220	Stainless steel
WCB50P	50	30	19	550	220	
WCB75P	75	30	21	750	220	

## 1、 product description

CB-B series gear pumps have simple structure, beautiful appearance, light weight, easy maintenance, low price, low noise, stable oil delivery, large flow rate, small pulse, smooth operation, good self-priming performance, reliable operation and long service life.

Scope and purpose of application.

The installation dimensions of the CB-B series gear pump are completely the same as those of the CB-B and BB-B gear pumps issued by the ministry.

Can be installed and used interchangeably. It is an ideal replacement product for the currently used CB-B series gear pumps.

CB-B series gear pump is suitable for transporting mineral oil with a viscosity of 1~8 Pascals and different properties.

For vegetable oils, the oil temperature should not exceed 100°C, such as hydraulic oil, machine oil, and fuel oil.

CB-B series gear pumps are not suitable for use in flammable, explosive media and media containing particle impurities with high hardness.

CB-B series gear pumps are widely used in the low-pressure hydraulic transmission system of machine tools and the oil supply and cooling systems of thin oil stations in large mechanical equipment, as well as the lubrication systems of various mechanical equipment.



Model	Capacity L/min	preset pressure MPa	Rated speed r/min	Volumetric efficiency η v%	total efficiency T t%	pressure pulsatio n MPa	Noise value db	Driving power kw	weight kg
CB-B2.5	2.5	2.5	1450	≥70	≥63	+0.15	62-65	0.18	1.6
CB-B4	4			≥80	≥72			0.21	1.7
CB-B6	6							0.31	1.8
CB-B10	10			≥90	≥81			0.51	2.1
CB-B16	16						67-70	0.82	4.2
CB-B20	20							1.02	4.4
CB-B25	25							1.3	4.6
CB-B32	32			≥94	≥85			1.65	5
CB-B40	40						74-77	2.1	7.2
CB-B50	50							2.6	7.6
CB-B63	63							3.3	7.8
CB-B80	80			≥95	≥86		80-83	4.1	12.6
CB-B100	100							5.1	13.3
CB-B125	125							6.5	14.5
CB-B160	160							8.2	15.6



LQB/RCB asphalt pump

1、Scope of application

It is suitable for transporting media that is non-corrosive, does not contain solid particles, and is coagulable at room temperature. It is especially suitable for outdoor installation in cold areas and situations where the medium needs to be insulated during the process. The medium temperature can reach 250P and the viscosity is 5-1500cst.

2、Application scope

Used to transport heavy oil, asphalt, glue, resin, detergent, etc.

3、Structural features

The pump body is equipped with a hollow interlayer and is equipped with inlet and outlet flanges, which can be used for heating, insulation and cooling of the transported liquid and pump using thermal oil, steam, hot water and other media.



Model	CapacityQ		work pressure Mpa	Suction vacuum height m	Import and export caliber mm	Matching motor	
	l/min	Mf/h				power KW	Model
LQB--1/0.36 1/0.8	16.6	1	0.36 0.8	3	Φ50	1.5 1.5	Y90L-4 Y90L-4
LQB--2/0.36 2/0.8	33.3	2	0.36 0.8	3	Φ25	1.5 2.2	Y90L-4 Y100L-4
LQB- 3/0.36 3/0.8	50	3	0.36 0.8	3	Φ25	1.5 2.2	Y100L-6 YU2M-6
LQB--5/0.36 5/0.8	83.3	5	0.36 0.8	3	Φ40	2.2 4	YTOOL-4 YU2M-4
LQB --6/0.36 6/0.8	100	6	0.36 0.8	3	Φ40	2.2 4	Y100L-4 Y112M-4
LQB--8/0.36 8/0.8	133	8	0.36 0.8	3	Φ50	4 5.5	Y132M1-6 Y132M2-6
LQB--10/0.36	167	10	0.6	3	Φ50	4	Y132S1-6
LQB--12/0.36 12/0.8	200	12	0.36 0.8	3	Φ55	4 5.5	Y132M1-6 Y132M2-6
LQB--18/0.36 18/0.8	300	18	0.36 0.8	3	Φ55	5.5 7.5	Y132S-4 Y132M-4
LQB--18/0.36 18/0.8	300	18	0.36 0.8	3	Φ70	5.5 7.5	Y132M2-6 Y160M-6
LQB--25/0.6	416	25	0.6	3	Φ100	7.5	Y160M-6
LQK 29/0.36 29/0.8	483.3	29	0.36 0.8	3	Φ70	7.5 1.1	Y132M-4 Y160M-4
LQB--38/0.36 38/0.8	633	38	0.36 0.8	3	Φ100	11 15	Y160M-4 Y180L-6
LQB--58/0.36 58/0.8	960	58	0.36 0.8	3	Φ100	18.5 22	Y180M-4 Y180L-4



YHCB arc gear

1、Introduction

The YHCB series arc gear pump is designed and produced using advanced Japanese technology. Its outstanding feature is high efficiency and energy saving. Compared with ordinary gear pumps, the same amount of liquid is transported with less energy consumption. The ordinary gear pump has a flow rate of 58 cubic meters/hour, a pressure of 2.8kg, and is driven by an 18.5KW motor, while the YHCB oil pump has a flow rate of 60 cubic meters/hour, a pressure of 6kg, and is only driven by an 11KW motor. YHCB series arc gear oil pumps are mainly suitable for transporting various liquids with a viscosity of 5-1500CST, a temperature not exceeding 80°C, containing no solid particles, and non-corrosive. Such as gasoline, kerosene, Diesel and machinery lubricants. It is a high-efficiency and energy-saving special gear pump. It has the advantages of large flow, high pressure, small size, low noise, good self-priming performance, easy installation and maintenance, etc. It is also the ideal pump type for the tank car modification industry and the petroleum department. This product refers to JB/6434-92 standard allow.

Note: If used as a wine pump or chemical raw material pump, special materials can be selected according to user requirements and the actual conditions of the medium.

Model	Capacity Q (m³/h)	work pressure (MPa)	Rotating speed (r/min)	efficiency %	Suction vacuum height (m)	Equipped with power		
						car driven	Matching motor	
							Model	power KW
50YHCB-15	15	0.6	960	70	5	car driven	YB 132S-6	3
50YHCB-20	20	0.2	1100	70	5	car driven	YB132S-6	3
65YHCB-30B	30	0.4	970	70	5	car driven	YB132M-6	5.5
65YHCB-35	35	0.6	1440	70	5	car driven	YB132M-4	7.5
65YHCB-35A	35	0.6	960	70	5	car driven	YB160M-6	7.5
76YHCB-40	40	0.6	1440	70	5	car driven	YB132M-4	7.5
76YHCB-40A	40	0.6	970	70	5	car driven	YB160M-6	7.5
76YHCB-40B	40	0.4	970	70	5	car driven	YB1-60M-6	7.5
76YHCB-50	50	0.6	970	70	5	car driven	YB160L-6	11
80YHCB-60	60	0.6	970	70	5	car driven	YB160L-6	11
80YHCB-60A	60	0.6	970	70	5	car driven	YB160L-6	11
80YHCB-60B	60	0.4	970	70	5	car driven	YB160L-6	11
80YHCB-80	80	0.6	970	70	5	car driven	YB160L-6	15
100YHCB-100	100	0.4	970	70	5	car driven	YB200L-6	18.5
150YHCB-150	150	0.4	980	70	5	car driven	YB225M-4	30
200YHCB-200	200	0.4	740	70	5	car driven	YB280M-6	45

RY air-cooled hot oil pump



## 1、application

The pump has reasonable structure, excellent performance and reliable use. Suitable for transporting high-temperature liquids without solid particles. Its corrosion resistance and operating temperature depend on the medium in contact with it.

The materials of the main parts of the contact (divided into three categories:

1.HT200; 1LZG230-450in.Cr8Ni9Ti,OCH8Ni12-Mo2Ti)

## 2、Application scope

1. Petroleum and chemical industry
2. Grease industry
3. Synthetic fiber industry
4. Textile printing and dyeing industry
5. Plastic and rubber industry
6. Paper industry
7. Timber industry
8. Construction industry

## 3、Structural features

The RY type hot oil pump has a single-stage cantilever structure divided into foot supports and center supports. The inlet of the pump is axial suction, and the outlet is vertically upward from the center. The pump and drive motor are mounted on the same base through elastic couplings. The entire unit does not require a cooling system.

It is mainly composed of shell, rotor, bearing, seal and other parts. It adopts a packing seal structure (see Figure 2 for details), with an additional temperature-resistant oil seal, which acts as an auxiliary seal. The pump and motor are connected by a three-claw elastic coupling.

The design of this pump changes the structure of the traditional hot oil pump and adopts a natural heat dissipation cooling method, which reduces the volume of the pump, makes the structure simple, saves operating costs, and is safe and reliable.

Model	CapacityQ m³ /h	Lift m	Rotating speed r/min	powerKw		efficiency η %	Motor (Y type)Frame number
				Shaft power	Equipped power		
20-20-100		10	2800	0.45	0.75	26	80I
20-20-125	1.5	22	2800	0.22	0.75	30	80I
40-25-16C	10	28	2800	1.72	2.2	45	90L
25-25-160		27	2900	0.53	1.5	30	90S
32-32-160	6	28	2900	0.85	1.5	50	90S
50-32-160	12.5	30	2900	1.90	3.0	57	100L
50-32-20C	18	40	2900	3.92	5.5	50	132S
50-32-200A	16	32	2900	3.35		42	112M
50-32-250	12.5	80	2900	6.2	11	44	160M
60-50-160	20	32	2900	3.17	5.5	55	132S1
65-40-200	30	48	2900	6.3	7.5	62	132S2
65-40-200A	25	35	2900	4.0	5.5	59	132S
65-40-250	25	80	2900	10.3	15	53	160M2
65-40-250A	20	51	2900	5.67	7.5	49	132S2
65-40-315	25	125	2900	18.9	30	45	200L1
65-40-315A	22.5	100	2900	15.3	22	40	180M
80-50-200	50	50	2900	9.7	15	70	160M³
80-50-200A	45	40	2900	7.8	11	63	160M1
80-50-200E	40	32	2900	6.37	7.5	55	132S2
80-50-250	50	80	2900	17.1	22	58	180M
80-50-250A	43	60	2900	12.8	15	55	160M2
80-50-315	50	125	2900	30.4	45	56	225M
80-50-3154	45	100	2900	23.6	30	52	200L1
100-65-200	100	50	2900	18.4	22	74	180M
100-65-200A	94	44	2900	16	22	70	180M
100-65-200B	87	38	2900	13.8	15	65	160ME
100-65-200C	80	32	2900	11.8	15	59	160M2
100-65-250	100	80	2900	32.06	37	68	200L2
100-65-250A	95	72	2900	29	37	64	200L2
100-65-250B	90	65	2900	26.2	30	61	200L1
100-65-250C	85	50	2900	20.3	30	57	200L1
100-65-315	100	125	2900	50.06	75	68	280S
100-65-315/	95	113	2900	45.23	55	64.63	250M
100-65-3156	90	100	2900	40.5	55	60.50	250N
100-65-315C	82	84	2900	34.76	45	54	225M
125-100-200	200	50	2900	35.4	45	77	225M
125-100-200A	178	40	2900	26.6	37	73	200L2
25-100-250	200	70	2900	47	55	80	250M
125-100-250A1	190	63	2900	41.6	55	78	250M
25-100-250B	180	57	2900	37.9	45	74	225M
125-100-250C	170	51	2900	32.15	45	72	225M
125-100-250D	150	70	2900	40	45	70	225M
150-150-200	350	50	2900	60	75	80	280S
150-150-200A	313	40	2900	45	55	76	250M
200-150-400	350	50	1450	61.8	75	78	280S
200-150-400A	330	45	1450	52.8	75	77	280S
250-200-400	500	50	1480	86.2	110	79	315S
250-200-500	500	80	1480	136	160	76.5	315M
250200-500A	400	50	1480	75	90	73	280M



Model	Capacity Q		pressure Mpa	Suction and discharge pipe diameter	NPSH m	efficie ncy %	Deceleration method					
	m³ /h	l/min					power KW	Rotating speed r/min	Reducer			
NYP3/1.0	2	33.3	1.0	Rp11/2	5	45	3	587	YCJ71			
NYP10/1.0	6	100	1.3	Rp2		45	7.5	228	YCJ112			
	8	133.3	1.0	Rp2		45	7.5	303	YCJ100			
	10	166.7		Rp2		51	7.5	357	YCJ100			
	12	200		Rp2		54	7.5	475	YCJ100			
	NYP30/1.0	18		300		φ 80	54	15	305	YCJ112		
22		366.7		φ 80		58	15	359	YCJ112			
28		466.7		φ 80		65	15	479	YCJ112			
NYP50/1.0		50		833.3		φ 150	52	37	128	YCJ315		
	80	333.3		p150		58	45	208	YCJ355			
	100	1666.6		φ 150		65	55	253	YC/35E			
NYP3/1.0	1.5	25		Rp11/2		43		480	pulley drive			
	2	33.3		Rp11/2		43		640				
NYP10/1.0		133.3		Rp2		43	7.5	303				
	10	166.7		302		49	7.5	357				
	12	200		Rp2		51	7.5	475				
NYP3/1.0	3	50		1		Rp11/2		55			3	960
Sealing method: user needs												

1、Vacuum principle

In the circular pump body (stator) with a suction valve and an exhaust valve, there is an eccentric rotor and three blades that move by centrifugal force in the rotor slot. These blades divide the pump into three parts, and their volumes As the rotor rotates, it changes periodically to complete the process of gas suction, compression, and discharge, so that the gas at the suction port is sucked to form a vacuum.

2、Application scope

packaging, pasting

- Vacuum or inert gas packaging of various foods, metal parts and electronic components
- Pasting of photos and advertising paper.

Lifting, conveying, suction and holding, loading and unloading

- Lifting wooden boards for glass panels and holding plastic panels
- Loading and unloading of non-magnetic parts
- Loading, unloading and conveying of paper and cardboard in the papermaking and printing industry
- Conveying of powdery materials

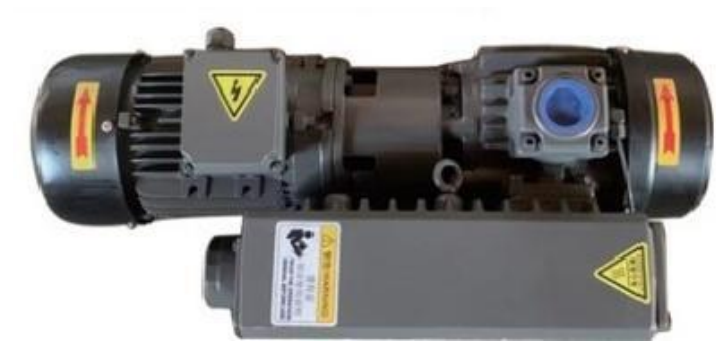
Drying, degassing, impregnation:

- Drying and impregnation of electronic components
- Degassing of molds, coatings, and vacuum furnaces

other:

- Laboratory equipment
- Medical devices
- Freon recycling
- Vacuum heat treatment

Model	SVR-020	SVR-040	SVR-063	SVR-100	SVR-160	SVR-202	SVR-250	SVR-302
Pumping rate (m³/h)	20	40	63	100	160	200	250	300
ultimate pressure (mbar)	0.1~0.5	0.1~0.5	0.1~05	0.1~0.5	0.1	0.1	0.1	0.1
Motor power (KW)	0.75	1.1/1.5	1.5/2.2	2.2/3	4	4.5	5.5	7.5
Motor speed (r/min)	2880	1440	1440	1440	1440	1440	1440	1440
Water vapor allowable pressure (mbar)	≤62	≤65	≤65	≤67	≤70	≤72	≤73	≤75
noise (DB)	40	40	40	40	40	40	40	40
Water vapor extraction (Kg/h)	0.3	0.6	1	1.6	2.5	4	4.5	5
Operating temperature (℃)	82	80	80	84	95	95	81	83
Oil volume (L)	0.5	1	2	2	5	5	7	7
weight (Kg)	18	45	55	70	150	150	195	211
Air inlet thread	Rp3/4	Rp1/4"	Rp1/4"	Rp1/4	Rp2"	Rp2"	Rp2"	Rp2"



NCB series rotor pump



# 1、Introduction

NCB series stainless steel high viscosity rotor pump uses

This stainless steel rotor pump adopts the principle of internal meshing. The pitch circles of the inner and outer gears are close to one side, and the other side is separated by a "crescent plate". The gears rotate in the same direction and there is no trapped liquid. The rotor pump has a unique structure, small volume and large flow rate. Low noise and long life.

Structural features of NCB series stainless steel high viscosity rotor pump

Stainless steel rotor pumps are suitable for transporting a variety of light, volatile liquids, to heavy, viscous liquids, and even semi-solid liquids. NCB series stainless steel rotor pumps are widely used in petroleum, chemical, grease, paint and other industries.

Model	Import and export diameter mm	CapacityQ m³ /h	pressure Mpa	suction vacuum m	Rotating speed r/min	Equipped with motor		Assembly form	weight kg	Dimensions
						Model	power KW			
NCB-1.2/0.3	Gi"	1.2	0.3	0.03	500	Y90L-6	1.1	W-L	10	234×140×140
NCB-1.8/0.3	G11/2"	1.8	0.3	0.03	500		1.5	W-L	11	254×153×153
NCB-3/0.3		3			700	Y100L-6	1.5	W-L		
NCB-6/0.5	40	6	0.5	0.05	500		3	W-L	70	700×370×300
NCB-8/0.5		8			570	Y100L4		W-L		
NCB-12/0.5	50	12	0.5	0.05	690	Y132M-6	4	W-L	140	800×550×420
NCB-16/0.5		16			380	Y132Mz-E	5.5	W-L		
NCB-20/0.5		20			460	Y132M-4	7.5	W-L		
NCB-12107	80	12	0.7	0.05	220	Y160M-6	7.5	W-L	330	910×780×500
NCB-18/0.7		18			310	Y160L-6	11	W-L		
NCB-24/0.5		24	0.5	0.05	420	Y10M-4	11	W-L		
NCB-30/0.5		30			520	Y160L-4	15	W-L		
NCB-40/0.5	125	40	0.5	0.06	230	7200L-6	8.5	W-L	750	1240×1022×610
NCB-50/0.5		50			290	Y200L2-6	22	W-L		
NCB-60/0.5		60			350	Y200L2-6	22	W-L		
NCB-70/0.5		70			410	Y225M-6	30	W-L		
NCB-80/0.5	150	80	0.5	0.06	470	Y200L-4	30	W-L		
NCB-100/0.5		100			320	Y280S-6	45	W-L		
NCB-120/0.5		120			380	Y280M-6	55	W-L		
NCB-150/0.5		150			480	Y280S-4	75	W-L		

LC Roots pump



Roots oil pump has the characteristics of low rotation speed, high efficiency, small volume, large flow rate, low power consumption, strong self-priming ability, and easy use. It can be widely used to transport petroleum and petroleum products (copper rotors are required for gasoline), transport various oils and liquids in factories, and can transport various liquids in food processing. It is fast, efficient and easy to use for loading and unloading various tank trucks and oil tankers.

## Structural principle of Roots oil pump:

Roots oil pump consists of pump body, pump cover, shaft, gear, rotor, packing, gland and other components. The pump has three forms of belt drive, gear reducer and variable frequency motor drive. It can reverse the action. At both ends of the shaft It is equipped with a skeleton oil-resistant seal and an oil return device in the middle to prevent air intake or oil leakage. The pump is a positive displacement cam pump, and the power is transmitted to the gear through a shaft. A pair of synchronous gears drive the pump rotor to perform differential synchronous rotation, dividing the pump working chamber into a suction area (low pressure area) and a discharge area (high pressure area). As the pump rotor rotates, the medium is continuously sucked in from the low-pressure area and discharged from the high-pressure area to achieve the purpose of transporting the medium.

## Roots oil pump features:

1. The Roots pump has a compact structure, few parts, easy maintenance and operation, and reliable operation.
2. The relative sliding speed of the Roots pump rotor is very low, the operation is smooth, the wear is less, the noise is low, and the service life is long.
3. The suction side of the Roots pump has a large area, the volume between teeth changes slowly, the pressure pulsation is small, and the suction capacity is high, up to 5m.
4. The flow rate of the Roots pump is proportional to the rotation speed, and the flow rate can be automatically adjusted with the help of the speed regulator.
5. The Roots pump is equipped with an insulation jacket, which can be insulated by insulating steam or heat transfer oil. The insulation temperature can reach 350C.
6. Roots pump has high processing precision and volumetric efficiency greater than 85%



Model	Capacitym3/h	Pressur e Mpa	Diameterm m	Suction heightm	PowerKW	Pump efficiency	Speed r/min	Medium temperature < C
LC-10/0.6	10	0.6	50	6	4.0	62	400	200
LC-18/0.6	18	0.6	50	6	5.5	62	400	200
LC-38/0.6	38	0.6	80	6	7.5	65	400	200
LC-50/0.6	50	0.6	100	6	11	70	445	200
LC-80/0.6	80	0.6	150	6	30	70	209	200
LC-100/0.6	100	0.6	150	6	37	73	254	200
LCW-10/0.6	10	0.6	50	6	4.0	62	400	200
LCW-18/0.6	18	0.6	50	6	5.5	62	400	200
LCW-38/0.6	38	0.6	80	6	7.5	65	400	200
LCW-50/0.6	50	0.6	100	6	11	70	445	200
LCW-80/0.6	80	0.6	150	6	30	70	209	200
LCW-100/0.6	100	0.6	150	6	37	73	254	200

3RP Cam Rotor Pump



Stainless steel rotor pump is also called colloid pump, three-leaf pump, shoe sole pump, etc. It relies on two synchronous counter-rotating rotors (the number of teeth is 2-4) to generate suction (vacuum degree) at the inlet during the rotation process, thereby sucking in the material to be transported. Stainless steel rotor pump is a rotor pump made of stainless steel.

## Structure introduction

The structure of the rotor pump: It is assembled as a whole with couplings, which reduces the volume (the length can be shortened by 100-250mm), reduces the floor space, has a compact structure, is covered with stainless steel, and is mirror polished. It has a beautiful appearance and high grade, and avoids the need to apply the original brush. Paint peeling off. Performance optimization: The coupling is assembled as a whole to reduce the power consumption, noise and wear of the elastic coupling and improve work efficiency. It achieves the highest efficiency, minimal internal sliding and longer service life.

## working principle

The rotor pump relies on two synchronously counter-rotating rotors (number of teeth is 2-4) to generate suction (vacuum) at the inlet during the rotation process, thereby sucking in the material to be transported. The two rotors divide the rotor chamber into several small spaces and operate in the order of a→b→c→d. When it reaches position a, only chamber I is filled with medium; when it reaches position b, part of the medium is enclosed in chamber B; when it reaches position C, the medium is also enclosed in chamber A; when it reaches position d, room A, chamber B and room II are filled with medium. The chambers are connected, and the medium is transported to the discharge port. In this way, the medium (material) is continuously transported out.

## Application scope

- Food and beverages: dairy, latex, chocolate, syrup, cheese, wort, beer, soda
- Fruit concentrates: pudding, jam, jelly, ketchup
- Paste products: fats, oils, etc.
- Cosmetics: facial creams, detergents, hair gels, fragrance oils, etc.
- Drugs: extracts, emulsions, pills, etc.
- Chemical industry: dyes, fats, solvents, resins and polymers

## Technical Parameters

- Viscosity range of conveyed materials: 0.2CP~500,000CP
- Maximum outlet pressure: 0.6Mpa (at high viscosity)
- Product temperature ranges from -20°C~150°C

## Features

1. Comparison with centrifugal pumps (breast pumps): Centrifugal pumps have been widely used due to their simple structure and low cost. Compared with the rotor pump, it has the following main differences: Chemical pump Sanitary pump

(1) The rotor pump is a positive displacement pump, and the delivery flow can be controlled more accurately and can be easily made into a variable pump. The output flow of a centrifugal pump cannot be controlled and decreases as the resistance increases; the rotor pump has a strong self-priming ability, and the centrifugal pump must be filled with liquid before operation.

(2) The rotation speed of the rotor pump is very low, generally between 200rpm and 600rpm. The transported materials are output smoothly without damaging their components. The speed of the centrifugal pump is very high, and the materials being transported are subject to strong impact and centrifugal force. Therefore, when the centrifugal pump transports the mixture, the material composition often occurs, which reduces the quality of the finished product. The universal conveying pump is the best choice to solve this problem, so it is especially suitable for conveying mixtures and even materials containing solid particles.

(3) The rotor pump can be used to transport substances with high viscosity, so it is also called a colloid pump. Centrifugal pumps do not have this feature.

(4) Rotor pumps can be easily made into varieties with higher output pressure, such as 150kgf/cm2, which are suitable for long-distance or high-resistance quantitative transportation.

(5) The production of rotor pumps is more complicated and precise, and the cost is high. This is also the biggest difference between it and centrifugal pumps.

Model	Theoretical Displacement、 (L/100r)	Maximum pressure difference (MPa)	Caliber (mm)	Maximum speed (r/min)	Motor Power (kW)
3RP6/0.6	6	0.6	25	960	1.5
3RP8/0.4	8	0.4	25	960	1.5
3RP12/1.0	12	1.0	25	960	4
3RP21/0.6	21	0.6	40	960	5.5
3RP28/0.4	28	0.4	50	960	4
3RP36/1.0	36	1.0	50	720	11
3RP52/0.6	52	0.6	50	720	11
3RP66/0.4	66	0.4	80	720	7.5
3RP78/10	78	1.0	80	720	22
3RP107/0.6	107	0.6	80	720	18.5
3RP156/0.4	156	0.4	100	720	18.5

### DHB booster fuel pump

DHB booster pump is suitable for pressurizing fuel. The injection is suitable for heavy fuel oil, light fuel oil, residual oil, coal tar, and other fuel oils. It is not suitable for transporting highly volatile or low flash point liquids, such as ammonia, benzene, etc. It is widely used in road and bridge engineering mixing stations, power plants, oil-fired boilers, coal tar chemicals, etc., and has reliable wear resistance.

DHB booster pump is suitable for high temperature resistance of 200°C, strong resistance to impurities, stable pressure, and long pressure holding time.



Model	Capacity m <sup>3</sup> /h	Pressure Mpa	Suction height mH2O	Import and export diameter	Matching motor	Remark
DHB3/4.0	3	4.0	3	1"	Y132M-4B35	Suitable for 2000 type mixing station
DHB6/4.0	6	4.0	3	1 1/2"	Y160M-4B35	Suitable for 3000 type mixing station
DHB8/40	8	4.0	3	1 1/2"	Y160L-4B35	Suitable for 4000 type mixing station

### ZYB residual oil pump

The design of the ZYB residual oil pump fully considers the interchangeability with the KCB series ordinary gear pump. The appearance, installation dimensions and technical parameters are exactly the same as the KCB series gear pump. Therefore, this type of pump is also called the "powerful type" of the KCB series. When transporting lubricated and impurity-free media, it also displays the important features of long service life and stable pressure of the pump. ZYB residual oil pump adopts self-sealing lubrication, automatic gap adjustment structure, and all parts are made of high wear-resistant materials. It has the characteristics of compact structure, good self-priming, high efficiency and strong adaptability. When the transported liquid contains impurities, the working life of ZYB residual oil pump (installation instructions) is more than 10 times longer than that of ordinary gear pumps.

ZYB residual oil pump is not suitable for transporting corrosive, metallic impurities, sand and gravel impurities with a particle diameter greater than 3mm, and media with high volatility and low flash point. Such as: gasoline, benzene, etc.



Model	Capacity m <sup>3</sup> /h	Rotating speed r/min	Specified pressure MPa	Required cavitation allowance m	Efficiency %	Power KW	Motor model
ZYB-18.3	1.1	1400	0.6	5	44	1.5	Y90L-4
ZYB-33.3	2	1400	0.6	5	44	2.2	Y100L1-4
ZYB-55	3.3	1400	0.6	6	41	1.5	Y90L-4
ZYB-83.3	5	1400	0.6	6	43	2.2	Y100L1-4
ZYB-200	12	1400	0.6	5	46	4	Y112-4
ZYB-300	18	970	0.6	5	42	5.5	Y132M-6
ZYB-633	38	970	0.6	5	43	11	Y160L-6

YQB liquefied gas petroleum pump

The YQB series liquefied petroleum gas pumps produced by our company are mainly used to transport liquefied petroleum gas, propylene, liquid ammonia, or various volatile liquids and petroleum products with similar properties. This pump is a positive displacement vane pump with an advanced structure. The stator curved surface is composed of compound curves. Mechanical seals are used at both ends. Each fixed mating end face uses an "O" type sealing ring. The matching parts for rotation are made of metal and non-metallic ones. , with the functions of safe and reliable use and multi-purpose in one machine.

working principle

The pump type is a positive displacement vane pump. It works by centrifugal sliding of the blades. The flow rate is related to the rotation speed of the shaft. The inner curved surface of the stator is made of a domestic original compound curve. The stator, rotor, baffle and blades form ten sealed cavities. Since The stator curved surface is a compound curve. When the rotor rotates, the volume of the inlet cavity gradually increases, and a negative pressure is formed to generate suction, thereby sucking in the oil. When the rotor rotates to a certain angle, the volume section gradually decreases, thereby pushing the oil out. There is an oil block between the oil suction chamber and the pressure oil chamber to separate the oil suction chamber and the pressure oil chamber. The blades rely on centrifugal force and the two-baffle structure to closely fit the inner curved surface of the stator, allowing the pump to operate normally under rated conditions.



Model	Rotating speed N	Capacity Q	Pressure difference AR	Working Pressure P	Matchin motor model	Power N	Entrance diameter inch	Exit diameter inch	Temperature range ℃
YQB2-5	600r. P. m	2m³ /h	0. 5MPa	1. 6MPa	YB90L-4	1. 5KW	1	1	+40 -40
YQB5-5	780r. P. m	5m³ /h			YB100L-4	2. 2KW	1. 2	1. 2	
YQB10-5	600r. P. m	10m³ /	0. 5MPa	1. 6MPa	YB132S-4	5. 5KW	2	2	+40 -40
YQB15-5	780r. P. m	15m³ /h							
YQB15-5A	780r. P. m	15m³ /h	0. 4MPa	1. 6MPa	YB112M-4	4KW	2	2	+40 -40
YQB10-5A	600r. P. m	10m³ /h							
YQB25-5	600r. P. m	25m³ /h	0. 5MPa	1. 6MPa	YB160M-4	11KW	3	3	+40 -40
YQB35-5	780r. P. m	35m/h							
YQB50-5	600r. P. m	50m² /h	0. 5MPa	1. 6MPa	YB160L-4	15Kw	4	4	+40 -40
YQB60-5	780r. P. m	60m³ /h	0. 5MPa	1. 6MPa	YB160L-4	15KW	4	4	+40 -40
YQB80-5	780r. P. m	80m³ /h	0. 5MPa	1. 6MPa	YB180L-4	18. 5KW	4	4	+40 -40



## YPB sliding vane pump

### working principle:

The working principle of YPB sliding vane pump and vane pump is that the sliding vane is installed in the slotted rotor, and the rotor is eccentrically installed in the pump body. When the rotor rotates, the sliding vane slides out of the rotor and slides close to the surface of the pump body. The space size of the cavity formed by the slide vane and the pump body changes periodically as the rotor rotates. When the cavity increases, the medium is sucked in. When the cavity becomes smaller, the medium is discharged. This cycle repeats to complete the medium transportation process.

### Product performance features:

- 1) Strong self-priming ability, when used to pump underground tanks, the lifting height can reach 4.5m.
- (2) The sliding vane in the high-efficiency pump is subject to the combined action of centrifugal force, mechanical thrust, and hydraulic force, and moves closely in the stator curve, giving the pump unique high efficiency.
- (3) The self-adjusting sliding vane that maintains constant performance slides out of the rotor groove and continuously replenishes wear without reducing pump performance. This is essentially different from a gear pump.
- (4) Ability to transport shear-sensitive liquids. The high-efficiency design of the hydraulic slide reduces the shear force and agitation of the fluid on the fluid when the pump is driven, avoiding the resulting change in fluid properties.
- (5) Reliable sealing In view of the characteristics of viscous and high-temperature media, a mechanical seal with a special structure is adopted, which is safe, durable and reliable.

### Advantage:

The YPB series self-priming rotary sliding vane pump has a built-in overflow valve and uses a rotor with blades to drive the liquid. The material is made of ductile iron with self-lubricating blades. Because of its excellent performance, it can transport viscous and volatile liquids with lower power than equivalent pumps. It has more advantages in low-speed and large-flow transmission. Fast and low-noise for long-term use; the blade structure makes it stable in performance and trouble-free use.

YPB sliding vane pump has the above advantages, and has strong self-priming ability, long life, small size and high efficiency. When transporting gasoline, diesel or similar media, the sliding vane pump has great advantages and is a substitute for self-priming centrifugal oil pumps and copper wheel gear pumps.

### Application scope:

Tank trucks, ship refueling, lubricating oil, aviation fuel, petroleum, chemicals, gasoline, diesel, bio-fuel, solvents, etc.

### Install using:

This pump is widely used in mobile or fixed installations. When matched with a universal coupling or hydraulic motor, the pump can be installed on any tank truck, or connected to a motor or diesel engine, mounted on a metal floor, and used on any large-flow dispenser or mobile refueling equipment. . It is a replacement for copper wheel gear pump.



Model	Capacity m <sup>3</sup> / h	Discharge Pressure Mpa	Rotatingsp eed r/min	Self-priming height m	Equipped with Power KW	Motor model
50YPB-8	8	0.4	960	6	1.5	YB100ML1-6-1.5
50YPB-12	12	0.4	1450	6.5	3	YB112M-4-4
60YPB-16	16	0.6	960	6.5	4	YB132M1-6-4
60YPB-24	24	0.4	1450	7	5.5	YB132S-4-5.5
65YPB-35	35	0.6	960	6.5	5.5	YB132M2-6-5.5
80YPB-60	60	0.4	960	6.5	7.5	YB160M-6-7.5

3G three screw pump

1、application

It is used to transport media with temperature ≤150C, viscosity 5-760cSt, no solid particles, non-corrosive, and lubricating properties.

Applicable pressure range: 0.6-2.5MPa;

Applicable flow range: 0.6-123m³/h.

Mainly used in fuel transportation, hydraulic engineering, ship engineering, petrochemical and other industries.

2、Features

- (1) The medium is conveyed continuously in a straight line without stirring or pulsation;
- (2) Small vibration and low noise;
- (3) High pressure and high efficiency;
- (4) Simple structure, easy to disassemble and assemble
- (5) Small size and light weight;
- (6) Slight wear and long life

3、Structural features

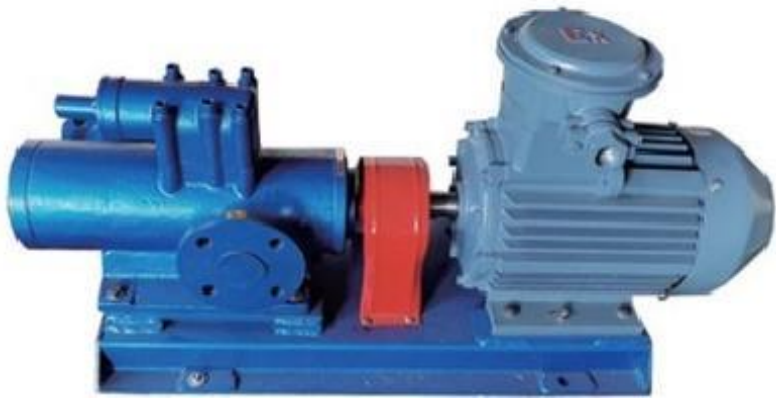
Mechanical seals are generally used. The pump is driven by an electric motor via a claw coupling. When viewed from the extended end of the main shaft towards the pump, it rotates clockwise.

4. Material

Master and slave screws 16MnCrS5, 40Cr, 45, 38CrMoAl

Pump body: HT200, QT450-10, ZCuSn10Pb2, ZG270-500

Model	Discharge pressure MPa	Capacity		Rotating speed r/min	Required cavitation allowance mm	efficiency %	Electric motor	
		m³/h	L/min				Power kW	Model
25 × 4-46	1.0	0.8	13	1450	4	62	0.75	Y802-4
	2.5	0.6	10			60.6	1.5	Y90L-4
	1.0	2.0	33	2900	4.5	59.4	1.5	Y90S-2
	2.5	1.6	26			69	3	Y100L-2
25 × 6-46	4	0.6	10	145	3.5	42	2.2	Y100L-4
	6	0.4	6.6			32	3	Y100L2-4
	4	1.6	26	2900	4	52	4	Y112M-2
	6	1.4	23			47	5.5	Y132S1-2
30 × 4-46	1.0	1.6	26	1450	4.5	63.5	1.1	Y90S-4
	2.5	1.2	20			61	2.2	Y100L1-4
	1.0	3.6	60	2900	5	60	2.2	Y90L-2
	2.5	3.2	53			69	4	Y112M-2
36 × 4-46	1.0	2.5	46	1450	4.5	66	2.2	Y100L1-4
	2.5	2.4	40			66.5	4	Y112M-4
	1.0	6.5	108	2900	5	60.5	4	YU2M-2
	2.5	6	100			72	7.5	Y132822
36 × 6A-46	4.0	6	100	2900	5.5	67	15	Y160M-2
	6.0	5	83			54	18.5	Y160L-2
	4.0	2.4	40	1450	5	56	5.5	Y132S-4
	6.0	2	33			43	11	Y160M-4
42 × 4-46	1.0	4.8	80	1450	5	62	4	Y112M-4
	2.5	4.2	70			73	5.5	Y132S14
	1.0	10.5	175	2900	5.5	61	5.5	Y132S1-2
	2.5	10	166			72	1.5	Y160M2-2
45 × 4-46	1.0	6.3	106	1450	5	70	3	Y100L2-4
	2.5	5.9	99			74	7.5	Y132M-4
	1.0	13.5	225	2900	5.5	60	7.5	Y132S2-2
	2.5	13	217			75	15	Y160M2-2
60 × 4-46	1.0	15.5	255	1450	5	71.3	11	Y160M4
	2.5	14.5	245			74	15	Y160L-4
	1.0	32	533	2900	5.5	63	18.5	Y160L-2
	2.5	31.5	525			77	37	Y200L2-2



CYZ self-priming centrifugal oil pump

1、Features

This pump is a self-priming centrifugal pump with the characteristics of simple structure, convenient operation and maintenance, smooth operation, large displacement, high discharge rate, easy adjustment, and wide range of use.

2 、 application

Used to transport gasoline, kerosene, diesel, aviation kerosene and other petroleum products. The medium temperature is -20°C+80°C. It is an excellent marine loading and unloading oil pump. and applicable to land Oil transportation in underground oil depots, tank trucks and other oil storage devices. It can also be used to transport seawater, fresh water, etc.

3、Structural features

It adopts an axial liquid return pump body structure. The pump body is composed of a suction chamber, a liquid storage chamber, a vortex chamber, a liquid return hole, a gas-liquid separation chamber, etc. The pump bearings adopt single row radial ball bearings. There is a cooling chamber at the bottom of the bearing body of the pump, and there are sealing rings in the high and low pressure areas inside the pump. The shaft end adopts mechanical seal.



Serial number	Model	Capacity		Lift m	pump cavitation allowance  M	Self-priming performance min/5m	Number of revolutions r/min	Shaft Power KW	Import and export diameter mm	Motor	
		m³/h	L/min							Model	Power Kw
1	25CYZ-27	3	50	27	3	3	2900	0.6	25	YB801-2	0.75
2	40CYZ-20	6.3	105	20	3.5	2	2900	0.88	40×32	YB802-2	1.1
3	688YZ-48	10	167	40	3.5	1.5	2900	2.8	5D°840	YBI12M-2	4
4	50CYZ-12	15	250	12	3.5	2.5	2900	1.1	50	YB90S-2	1.5
5	50CYZ-20	18	300	20	3.5	2	2900	1.8	50	YB90L-2	2.2
6	50CYZ-35	14	233	35	3.5	1.5	2900	2.7	50	/B 12M-2	
7	50CYZ-50	12.5	208	50	3.5	1.5	2900	4.3	50	YBI32S1-2	5.5
8	50CYZ-60	15	250	60	3.5	1.5	290C	6.3	50	YB132S2-2	7.5
9	50CY <sup>7</sup> -75	20	333	75	3.5	1.5	2900	9.9	50	YB160M1-2	11
10	65CYZ-15	30	500	15	4	2	2900	.92	65	YB100L-2	
11	65CYZ-30	25	416	30	4	2	2900	3.2	65	YB112M-2	
12	80CY <sup>7</sup> -12	35	583	13	4	3.5	2900	1.9	30	YB100L-2	
13	80CYZ-17	43	716	17	4	2	2900	3.1	30	YB112M-2	4
14	80CYZ-25	50	833	25	4	1.5	2900	5.2	80	YB132S2-C	7.5
15	80CYZ-32	50	833	32	4	1.5	2900	6.8	80	YB132S2-2	7.5
16	80CYZ-55	60	000	55	4	1.5	2900	15.0	80	YB160L-2	18.5
17	80CYZ-70	60	1000	70	4	1.2	2900	20.1	80	YB180M-2	22
18	100CYZ-40	100	1667	40	4	2	2900	18.3	100	YB180M-2	22
19	100CYZ-40A	100	1667	40	4	1.5	1470	18.5	100	YB180L-4	22
20	100CYZ-65	100	1667	65	4	2	2900	27.7	100	YB200L1-2	30
21	100CYZ-75	70	1167	75	4	2	2900	24.2	100	YB200L1-2	30
22	150CYZ-55	160	2667	55	5	2	2900	38.1	150	YB225M-2	45
23	150CYZ-65	170	2833	65	5	1.3	1470	51.0	150	YB250M-4	55
24	200CYZ-63	280	4667	63	5	1.5	4480	75.1	200	YB280M-4	90
25	80CYZ-125	50	833	125	4	1.5	2900	41.2	80	YB250M-2	55
26	00CYZ-125	100	1667	125	4	1.5	2900	69.4	100	YB280S-2	75
27	150CYZ-125	150	2500	125	5	1.5	2900	93	150	YB31SS-2	110
28	200CYZ-125	200	3333	125	5	1.5	2900	19.7	200	YB315M-2	132
29	250CYZ-50	400	6666	50	6	1.5	1480	77.2	250	YB280M-4	90



3GBW three-screw thermal insulation pump

1、Introduction

3GBW type insulated three-screw pump uses  
It is used to transport media with temperature ≤350C, viscosity 3-760cSt, no solid particles, non-corrosive and lubricating properties.  
Applicable pressure range: 0.6-2.5MPa  
Applicable flow range: 0.6-123m3/h  
Mainly used in fuel transportation, hydraulic engineering, ship engineering, petrochemical and other industries.

2、Application scope

- 1. The medium is conveyed continuously in a straight line without stirring or pulsation.
- 2. Small vibration and low noise.
- 3. High pressure and high efficiency.
- 4. Simple structure, easy to disassemble and assemble.
- 5. Small size and light weight.
- 6. Slight wear and long life.

3、Structural features

Mechanical seals are generally used. The pump is driven by an electric motor via a claw coupling. When viewed from the extended end of the main shaft towards the pump, it rotates clockwise.

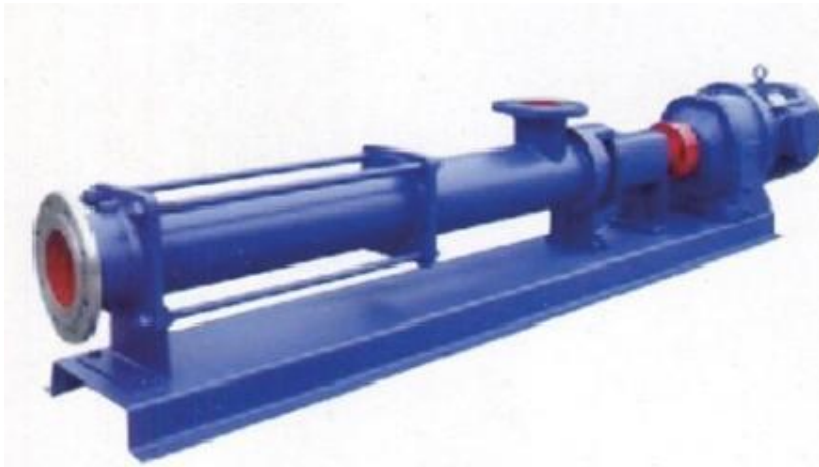
4. Material

Master and slave screws 16MnCrS5, 40Cr, 45, 38CrMoALA  
Pump body: HT200, QT450-10, ZCuSn10Pb, ZG270-500

Model	Capacity		Outlet pressure Mpa	Rotating speed r/min	Power KW		Required cavitation allowance mm	Motor Model
	m³ /h	L/min			Shaft Power	Motor Power		
45×3-36	2.8	46	0.6	950	0.8	1.1	5	90L
	2.7	45	1.0		1.2	1.5		100L-6-B3
	2.5	42	1.6		1.6	2.2		I2M-6MB3 132Mr6-B3
	2.4	40	2.5		2.8	4		
	4.2	70	0.6	1450	1.0	1.5	5	90L-4-63
	4.0	66	1.0		1.7	2.2		100Lr4-B3
	3.8	63	1.6		2.8	3		100L2-4-B3
	3.5	58	2.5		4.3	5.5		32-4-B3
45×2-46	4.2	70	0.6	950	1.0	1.5	5	100L-6-B3
	4.0	66	1.0		1.7	2.2		112M-6-B3
	6.3	105	0.6	1450	1.5	2.2		100L1-4-B3
	6.1	101	1.0		2.3	3		100L2-4-B3
60×2-43	8.58	143.4	0.6	950	2.06		5	132S-6-B3
	8.25	137.9	1.0		3.18	4		32MT-6-B3
	13.1	2189	0.6	1450	3.15	4		112M-4-B3
	12.6	210.5	1.0		4.86	7.5		132M-4-B3



G type single screw pump



The G-type screw pump is a new type of pump that works on the rotary meshing volumetric principle. The main working parts are the eccentric screw (rotor) and the fixed bushing (stator). Due to the special geometry of the two components, separate sealed chambers are formed respectively, and the medium flows uniformly in the axial direction. The internal flow rate is low, the volume remains unchanged, and the pressure is stable.

Therefore, no eddies and agitation will occur. The output pressure of each stage pump is 0.6MPa, and the lift is 60m (clean water), the self-priming height is generally 3m (clean water), and is suitable for conveying medium temperatures below 80C (special requirements can reach 150C).

Because the stator of the G-type screw pump is made of a variety of elastic materials, this pump has characteristics that ordinary pumps are not capable of transporting high-viscosity fluids and media containing hard suspended particles or media containing fibers. Its flow rate is proportional to the rotation speed.

The transmission can be directly driven by couplings, or can be driven by speed-regulating motors, V-belts, gearboxes and other devices.

The G-type screw pump has fewer parts, compact structure, small size, and easy maintenance. The rotor and stator are the wearing parts of the pump, and the structure is simple and easy to assemble and disassemble.

Model	Capacity (m³/h)	Pressure (MPa)	Rotating speed (r/min)	Motor Power (kw)	Import flange diameter (mm)	Outlet flange diameter (mm)	Allowable particle diameter (mm)	Allowable fiber length (mm)
G20-1	1.2	0.6	960	0.75	25	25	1.5	25
G20-2		1.2		1.1	25	25		
G25-1	2	0.6	960	1.5	32	25	2	30
G25-2		1.2		2.2	32	25		
G30-1	5	0.6	960	2.2	50	40	2.5	30
G30-2		1.2		3	50	40		
G35-1	8	0.6	960		65	50	3	40
G35-2		1.2		4	65	50		
G40-1	12	0.6	960		80	65	3.8	45
G40-2		1.2		5.5	80	65		
G50-1	20	0.6	960	5.5	100	80	5	50
G50-2		1.2		7.5	100	80		
G60-1	30	0.6	960	11	125	100	6	60
G60-2		1.2		15	125	100		
G70-1	45	0.6	720	11	150	125	8	70
G70-2		1.2		18.5	150			
G85-1	65	0.6	720	15	150	150	10	80
G85-2		1.2		30	150			
G105-1	80	0.6	720	22	200	150	10	80
G135-1	100	0.6	720	30	200	150	10	80