

BRIEF INTRODUCTION

Zhejiang xingsheng machinery o.,ltd was found in 1995,which is manufacturing sanitary transfer pumps and mixing equipments in the field of food,chemistry,pharmacy,commodity,chemical industry. "The pursuit of excellence,honesty and trustworthiness" is our consistent principle of service,your needs is our goal. We got trust by our customers because of experiences,abilities and innovation on our products,the more importance is our reasonability and high quality request on our products. The products are made of SUS304, sus316 and 316L, 2205,2507 etc,authorized from GMP,CE, ISO etc.

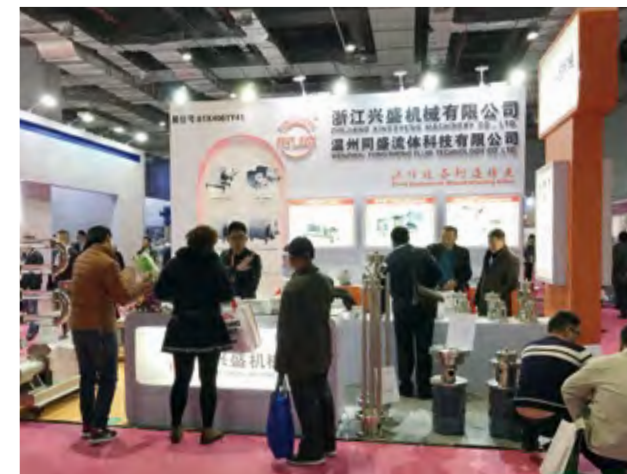
The company adopt international advanced production equipment and materials,and we always keep improving on products including sanitary rotor pump,eqmulsification pump,sine pump and centrifugal pump and Double screw pump, the products are used in the production line of well known companies!



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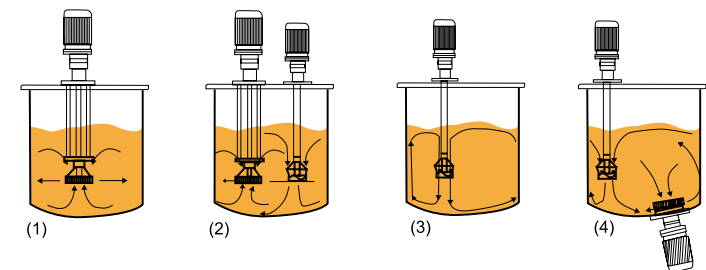
Xingsheng is always keeping closely with customers, and do a beautiful job in the similar fields, depending upon perfect quality, advanced technology, perfect service and reasonable product price.

Xingsheng' s products are spreading all over China and exported Southeast Asian regions, Australia, so that our products are favored by customers from home and abroad!



Operation Principle

High shear dispersing emulsifier effectively,quickly and evenly disperse a phase or phases to another consecutive phase ,usually,these phases are dissolvable to each other.The rotor revolves quickly and strong force is produced through high tangent speed and high frequency mechanical effect,therefore,the material in the narrow slotamong stator and rotor receives strong forces from mechanical and liquid shearing,centrifugal force,pressing,liquid fraction,clashing,tearing and rush water. A dissolvable solid,iquid and gas material is then instantly dispersed and emulsified evenly and finely with better production procedures and appropriate additives and finally products with stable high quality are made.



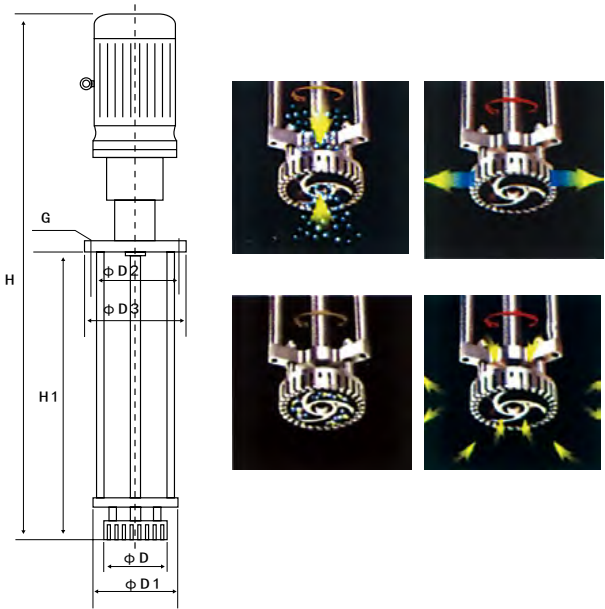
Main Parameters - power/ capacity

Model	(KW) Power	(r/min) Rotation speed	(L) Handling capacity
HSH-80	1.5	2900	20-100
HSH-100	2.2	2900	50-300
HSH-120	4	2900	100-500
HSH-140	5.5	2900	200-800
	7.5	2900	
HSH-160	11	2900	300-1000
	15	2900	
HSH-180	18.5	2900	500-1500
HSH-200	22	1450	800-2000
HSH-220	30	1450	1000-3000
HSH-240	37	1450	1500-5000
HSH-270	55	1450	2000-8000
HSH-290	75	1450	3000-10000

Intermittent High Shear Dispersing Emulsifier Working Process

The rotor revolves in high speed produces centrifugal force,which suctions the material from upper and lower feeding area axially to the operation chamber.the strong centrifugal force throws the material axially to the narrow slot between stator and rotor.The outer terminal of the rotor revolved in high speed produces a line speed more than 15m/s and even up to 40m/s,which produces strong mechanical and liquid shearing,liquid abrasion. ,clashing and tearing which fully disperse,emulsify,homogen,and break the material and jet from the stator slot.













As materials jet in radial in high speed,they change their flow direction with resistance from themselves and vessel walls.' The upper and lower axial suction force then leads to strong upper and lower rushing flows. After many circulations, the material is well dispersed and emulsified evenly.

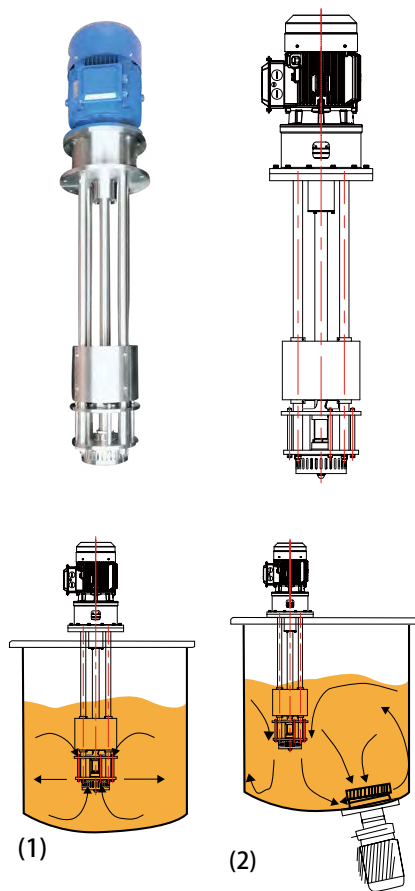


Dimensions;

Model	D	D1	H1	D2	D3	H	G
HSH-80	65	100	195	220	105	705	4×Φ14
HSH-100	116	160	550-850	215	260	1150	4×Φ14
HSH-120	141	195	750-900	255	260	1300	4×Φ14
HSH-140	156	235	800-1000	280	330	1520	6×Φ16
HSH-160	184	235	900-1200	280	330	1655	6×Φ16
HSH-180	200	280	1000-1400	360	415	2070	8×Φ18
HSH-200	240	300	1100-1600	360	415	2130	8×Φ18
HSH-220	260	320	1200-1800	400	450	2525	8×Φ20
HSH-240	280	340	1300-2000	400	450	2585	8×Φ20
HSH-270	330	380	1400-2200	500	550	2995	8×Φ20
HSH-290	350	400	1500-2400	500	550	3050	12×Φ20

Options for rotor-stator designs;

Workhead type		Model code	Workhead type		Model code	Workhead type		Model code	Workhead type		Model code
	Teeth Type	GC		Jet-Shear	JQ		High-effective slot type	GL		No-air Blender	JA
	Slot Type	GK		Jet-Round ole Type	JR		Double-Rotor Vortex type	GD		Jet-Vortex	JX
	ROund-Hole Type	GY		Jet-Disperse	JF		Square-Hole Type	GS		Fast-speed Blender Sanitary No-dead corner	GF



Power, speed and handling capacity

型号 Model	功率 (KW) Power	转速 (r/min) Rotation speed	处理量 (L) Handling capacity
TRH-140-SG	7.5	1450/2900	100-500
TRH-160-SG	15	1450/2900	300-1000
TRH-180-SG	22	1450/2900	500-1500
TRH-200-SG	30/37	1450/2900	800-2000
TRH-220-SG	45/55	1450/2900	1000-3000
TRH-240-SG	55/75	1450/2900	1500-5000
TRH-270-SG	90/110	1450/2900	2000-8000
TRH-290-SG	132/160	1450/2900	3000-10000

Note: the data about flow rate in the table is tested by water as the medium.and outlet pressure of the listed type ≤ 2 BAR.

For the processing of circulation on the machine, the type of intermittent high shear emulsifier is recommended. When the machine is working on high temperature, high pressure, flammable, explosive or corrosive condition, please identify that in order to choose a suitable model.

For mediums that get struggle to get mobility, the transfer pumps must be used and matched, suggested pressure ≤ 0.2 Mpa Specification is based solely on actual products; Subject to change without prior notice.

LIFTING MOVING HIGH-SHEAR DISPERSING EMULSIFIER



pneumatic lift type



electric lift type



manual hydraulic lift type

Shape Size

Model	(KW) Power	(r/min) Rotation speed	(L) Handling Capacity
TRH-80	1.5	2900	20-100
TRH-100	2.2	2900	50-300
TRH-120	4	2900	100-500
TRH-140	5.5/7.5	2900	200-800
TRH-160	7.5/11	2900	300-1000
TRH-180	18.5	2900	500-1500

LAB HIGH SHEAR DISPERSING EMULSIFIER

Working Principle

With the cooperation of high speed rotor and precise stator working chamber, depend on high linear speed, which can generate a strong liquid force to shear, centrifugal squeezing and high speed collision, T25 high shear dispersing homogenizing emulsification for laboratory can fully disperse, emulsify, homogenize and mix the material.

Features

T-25 series can be applied in pharmaceuticals, biochemistry, food industry, nano-material, paintings, adhesive, household chemicals, dye printing, petrochemicals, paper chemistry, polyurethane, inorganic salts, bitumen, organic silicon, pesticide, water treatment, heavy oil emulsification.

Brief

High performance motor and high torque output, it can do dispersing, homogenizing and emulsifying for small-scale, high temperature, medium and high viscous materials in laboratory.

Application

Available to disperse, homogenize, emulsify, for small batch, high temperature, middle viscosity liquid.

Features

Precise rotation speed display, three different stators are available for interchange, double safety protection devices.



型号/MODEL : TR-300



型号/MODEL : TR-25

TRH-I TANK BOTTOM HIGH SHEAR DISPERSING EMULSIFIER

Introduction

The tank bottom high shear emulsifier is mainly used for installed in the bottom of the tank, can solve various due to space problem unable to obtain appropriate best solution of high shear emulsifier equipment, while can also be combined with the blender working inside the tank, for materials inside the tank has better dispersion, emulsification, homogenization effect. Tank bottom high shear emulsifier can be applied to low viscosity and high viscosity fluid, and can be used in food, pharmaceutical, cosmetics, paint chemicals, electronic materials, chemical industry and petroleum chemical industry, etc.



Main Parameter

Model	(KW) Powe	(r/min) Rotatiun speed	(L) Handing capacity
TRH-I-80	1.5	2900	20-100
TRH-I-100	2.2	2900	50-300
TRH-I-120	4	2900	100-500
TRH-I-140	5.5	2900	200-800
	7.5	2900	
TRH-I-160	11	2900	300-1000
	15	2900	
TRH-I-180	18.5	2900	500-1500
TRH-I-200	22	1450	800-2000
TRH-I-220	30	1450	1000-3000
TRH-I-240	37	1450	1500-5000
TRH-I-270	55	1450	2000-8000
TRH-I-290	75	1450	3000-10000

TRH-D BOTTOM SUCTION-POWDER MIXING DISPERSING EMULSIFIER

Operation Principle

TRH - D with innovative design, ingenious mix powder material absorption function and dispersed emulsion functionality set on one device, through the special design which has the function of suction powder high-speed rotation of the stator produce vacuum and mixed shear emulsifying ability, can quickly dry powder inhalation to work inside the cavity, and will immediately powder and liquid mixing shearing emulsification, achieve the desired product. The device not only greatly save the tedious powder feeding process and production time, and avoid the job shop dust pollution. This equipment widely used in food, medicine and cosmetics industries, and can be installed at the bottom of the various vacuum emulsifying tank.



Bottom suction powder



Application

Food Industry: homogeneous concentrated fruit juice, long fiber drinks, soups, all kinds of jam, fruit juice, potatoes, mustard cake; Heterogeneous mix milk products: such as ice cream, chocolate milk, cocoa milk, CMC, starch, Mr Jing, etc.

Biological pharmaceutical industry: tissue, cell body grinding, injection; antibiotics; drug ointment; microcapsules emulsion;

Cosmetics Industry: Emulsion various facial cream, lipstick, liquid detergent, Ximian Nai, skin care products, shampoo;

Chemical industry: resin emulsion, carbon black dispersion; dye coating

Main Parameter

Model	(KW) Power	(r/min) Rotation speed	(kgs/H) Suction powder	(m ³ /h) Flow capacity
TRH-D-120	3/4	2900	100-500	0-3
TRH-D-140	5.5/7.5	2900	100-800	0-5
TRH-D-160	11/15	2900	100-1000	0-8
TRH-D-180	18.5/22	2900	100-1500	0-12
TRH-D-200	30	1450	100-2000	0-20

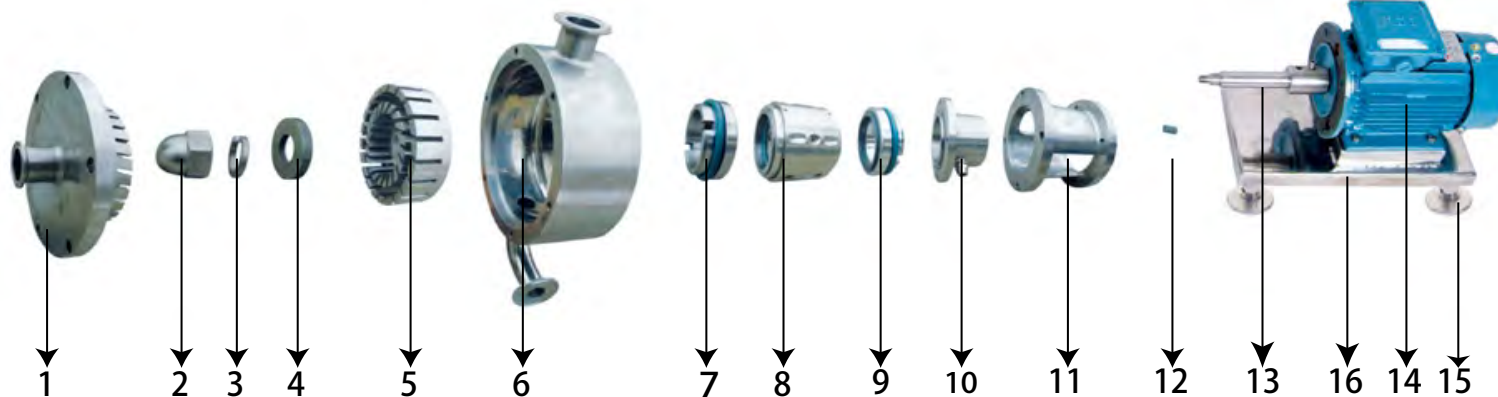
Working Principle

Pipeline high shear dispersing emulsifier is a high performance equipment used for continuous production or circulated treatment of fine material. In the small chamber, there are 1-3 sets of paired and clutched stators and rotor. Driven by motor, the rotor revolve quickly and produces a strong axial suction force which intakes the material to the chamber. The machine disperses, shears and emulsifies the material in shortest time, and the diameter range of the particles gets smaller so that fine and stable products are produced.



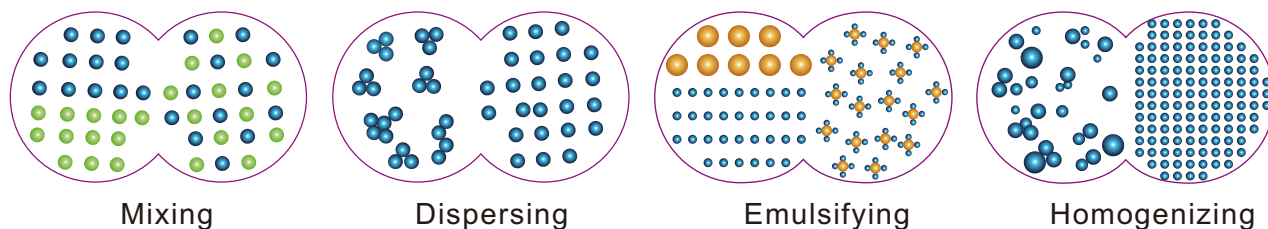
High Shear Dispersing Emulsifier System

Pipeline High Shear Dispersing Emulsifier



1. Stator
2. Screw cap
3. Flexible gasket
4. Flat gasket
5. Rotor
6. Pump cavity
7. Mechanical seal (stationary ring)
8. Mechanical seal (moving ring)
9. Mechanical seal (stationary ring)
10. Seal cool seat
11. Pump seat
12. Pin
13. Pump shaft
14. Motor
15. Support
16. Frame

High Shear Dispersing Emulsifier Is Applied In Many Fie.....



Mixing dissolving	Soluble solid or liquid blends together with liquid in the state of the molecule or the gum Crystallization powder,salt,sugar,ether sulphate ,abrasive ,hydrolysing colloid,CMC thixotropy,rubber,natural and synthetic resin
Dispersed suspension:	Unsoluble solid or liquid forms finer partial blended solution or suspended solution Catalyst,flatting agent ,pigment ,graphite,paint coating,printing ink
Emulsification	Unsoluble liquid together with liquid does not separate Cream ,ice cream , animal oil ,vegetable oil ,protein ,silicon oil ,light oil ,mineral oil ,paraffin
Homogeneity :	Make emulsification and suspended grain size finer with more even distribution Cream,flavouring,fruitjuicejam,condiment,cheese,fatmilk,toot
Thick liquid :	Cell' s tissue ,organic tissue,the animal and plant tissues
Chemical reaction :	Nanometer material,inflating with higher speed ,synthesization with higher speed
Extraction:	The vortex extr action
Depolymerization:	Nanometer powder ,dough powder

Applications

Fine chemical: pigment,glue ,sealing compound,resin emulsifying,germicidal agent,coagulating agent

Petroleum chemical: lubricating grease,diesel emulsifying, asphalt modification,catalyst,paraffin emulsification

Bio-pharmacy: injection, antibiotic, ointment, biopreparate,capsule emulsification,sugar coating

Coating&oil inks: printing ink,emulsion coating,construction coating,auto paint,coating auxiliary agent

Pesticides: bactericidal agent, seed coating agent,herbicide,pesticide emulsified oil,ertilizer,biological pesticide

Nanometer material: dispersing and dispolymerizing nanometer material,extracting nanometer products in chemical reaction

Food industry: juice,jam,elly,ice cream,dairy products,additive,tea drinking

Advantages Of Pipeline High Shear

Dispersing Emulsifier

Mass production suitable for continuous production of industrialized assembly line

Small diameter range, and highly even

Time saving, highly efficient and energy saving

Low noise, stable operation

Reduced quality difference between lots

Material is fully dispersed and sheared

Deliver in short distance with low lift

Easy operation, convenient maintenance

Automatic control



Experimental emulsion pump



Fixed emulsion pump



Rough teeth:
beat, shatter,
shear, dissolve,
rough disperse



Middle teeth:
disperse, refine,
solutize, emulsify



Fine teeth:
superfine disperse,
emulsify, homogenize,
pulpify



Movable emulsion pump

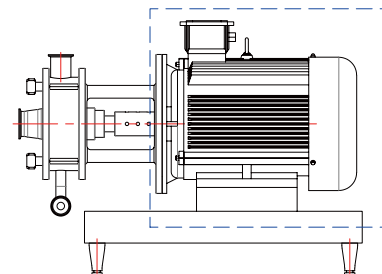
Main Parameter

Model	(KW) Power	(r/min) Rotation speed	(m ³ /h) Capacity
WRL1-80	1.5	2900	0-1.5
WRL1-100	2.2	2900	0-3
WRL1-120	4	2900	0-4
WRL1-140	5.5/7.5	2900/2900	0-5
WRL1-165	7.5/11	2900/2900	0-8
WRL1-180	11/15	2900/2900	0-12
WRL1-185	15/18.5	2900/2900	0-18
WRL1-200	22	2900	0-25
WRL1-210	30	2900	0-35
WRL1-230	45	2900	0-50
WRL1-245	55	2900	0-75
WRL1-260	75	2900	0-90
WRL1-275	90	2900	0-110
WRL1-280	132	2900	0-130

WRL1 PIPELINE HIGH SHEAR DISPERSING EMULSIFIER
 - SANITARY S VERSION WITH QUICK ACCESS INTERCHANGEABLE HEAD



Unit 1, 10c Maurice Rd, Penrose, Auckland New Zealand
 PO Box 2082, Shortland St, Auckland 1140
 Tel 09-580 2520 Fax 09-580 2525
 Email mail@hdprocess.co.nz



Easy dismantle emulsion pump

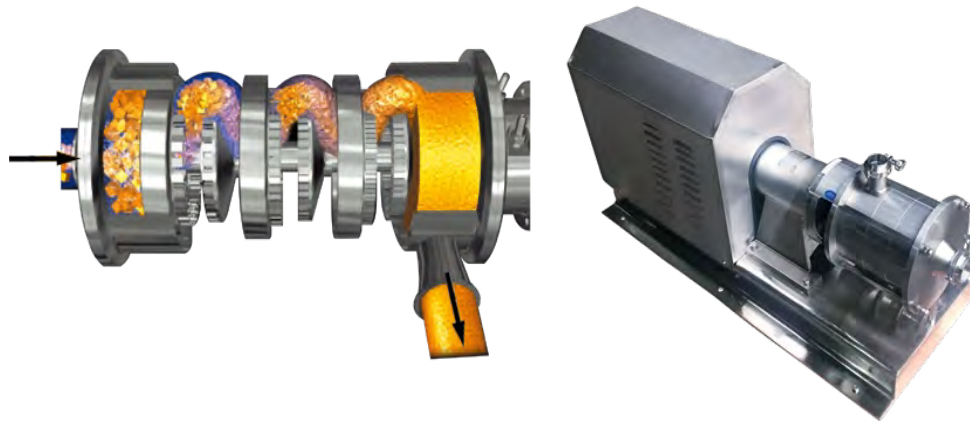


Main Parameter

Model	(KW) Power	(r/min) Rotation speed	(m ³ /h) Capacity
WRL1-S-80	1.5	2900	0-1.5
WRL1-S-100	2.2	2900	0-3
WRL1-S-120	4	2900	0-4
WRL1-S-140	5.5/7.5	2900	0-5
WRL1-S-165	7.5/11	2900	0-8
WRL1-S-180	11/15	2900	0-12
WRL1-S-185	15/18.5	2900	0-18
WRL1-S-200	22	1450/2900	0-25
WRL1-S-210	30	1450/2900	0-35
WRL1-S-230	45	1450/2900	0-50
WRL1-S-245	55	1450/2900	0-75
WRL1-S-260	75	1450/2900	0-90
WRL1-S-275	90	1450/2900	0-110
WRL1-S-280	132	1450/2900	0-130

Principle Of Dynamics

1. Medium sucked in by strong axial suction force.
2. Single phase liquid, multi-phase liquid or suspended particles are pumped in though single-stage, double-stage or three-stage rotor and stators.
3. No matter what medium property is, pump will evenly shear all the liquid with high-intensity and controllable force.
4. Shearing rate is constant, different sizes depends on gear of rotor and stator and speed of rotor.



Main Parameter

Model	(KW) Power	(RPM) Rotation speed	W (m ³ /h) Capacity
WRL3-80	4	2900	0-1.5
WRL3-100	5.5	2900	0-3
WRL3-120	7.5	2900	0-4
WRL3-140	11	2900	0-5
WRL3-165	18.5	2900	0-8
WRL3-180	22	2900	0-12
WRL3-185	30	2900	0-18
WRL3-200	45	2900	0-25
WRL3-210	55	1470	0-35
WRL3-230	75	1470	0-50
WRL3-245	90	1470	0-75
WRL3-260	110	1470	0-90
WRL3-275	132	1470	0-110

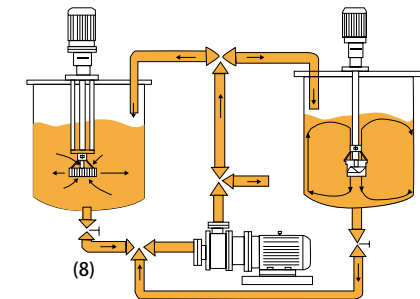
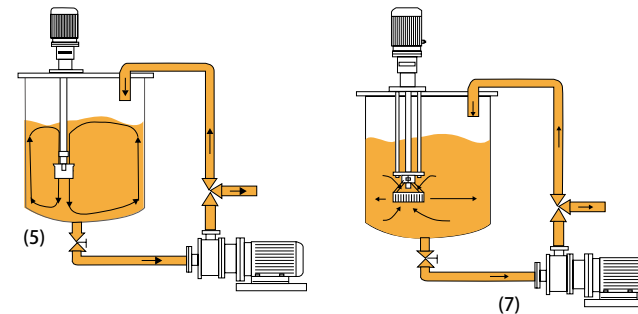
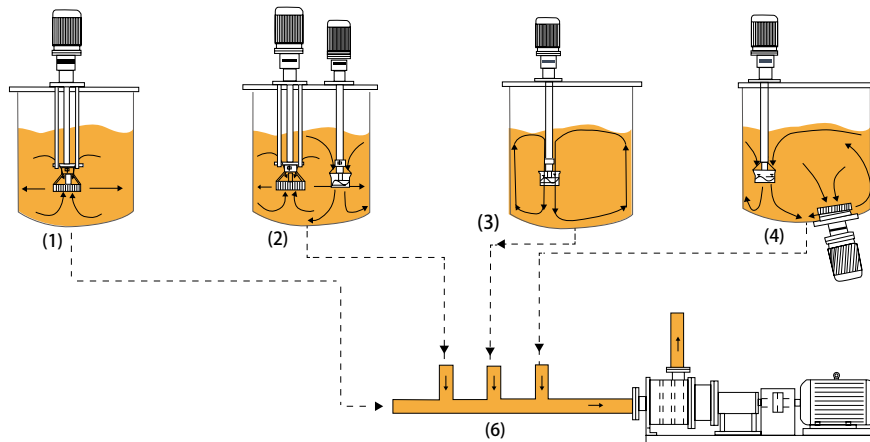
Working Principle

Three sets of stators and rotors are equipped in working cavity. Driving shaft in working cavity is an arm, electrical motor and the shaft in bearing cabinet can be connected by spring coupling to improve the operation quality of driving shaft. Seal form can be selected in different conditions. It is fit for .middle-large scale on-line continuous production or circulated treatment production process.



Optimized Combination Makes The System Reach The Best State

There are equipments in different forms and combine in optimization for different flow processes, to make the system reach the best state. Common process flows are as below:



Introduction

In a wide range of products from simple to demanding applications to blend, emulsify, disperse, dissolve and homogenize, TRL-H series with unique impeller-vane, inducer design enables quick dissolution and hydration of stabilizers, gums, powders, sugars and any fluids requiring sensitive shearing.

Features

The WRL-H Series blenders are ideally suitable for various applications of skimming milk, formulating, toppings, puddings, making sauces, mixing ice-cream, blending sugar and dressing salad. Also, TRL-H Series are designed to blend, emulsify, disperse, dissolve and homogenize.

Supremely efficient and rapid in operation to shorten processing time by up to 90% when compared to conventional paddles or agitators due to configuring impeller-vane design in line with fluid shear rate.

All contact parts are AISI316 stainless steel for pump and funnel.

CIP's ability being suitable for hygienic and clean process reduces downtime consuming hand cleaning and labor intense of man hours besides the risk of equipment damage from COP.

Highest capacity and heaviest duty with compact size being accomplished with state-of-art technology and know-how. The shear blender can deliver capacities up to 80m³/hr.



Impellers with excellent suction capacity ensure that tasks are optimally realised during homogenising and emulsifying.



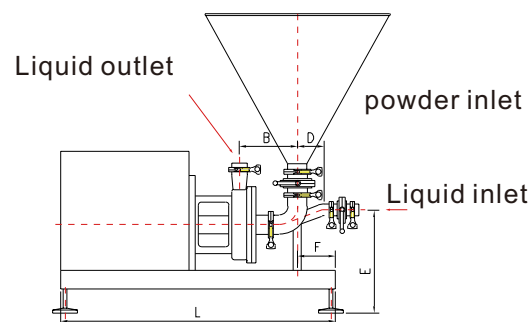
TRL-H with hopper: for mixing sugar, flour, salts, spices, etc. powder with liquid.

Advantages

Liquid Powder Blender - with high through put and excellent anti foaming properties

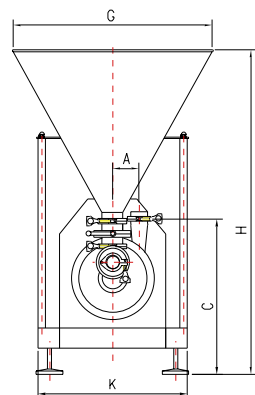
Enormous savings in time, Suitable for extremely varied batch sizes, Low noise, stable operation, For applications where low stress on products is important, Easy to clean: CIP/SIP or manual, Simple maintenance, Different sealing materials.

Main Parameter



Model	Outlet X liquid inlet	Range of capacity (T/H)	Powder inlet	Elec ctrica power (KW)	Rotation speed (r/min)	Powder Suction capacity (T/H)	Remarks
WRL-H-100	1.5 " x1.2 "	0-5	2"	3/4	2900	0-1.5	The flow in the table refers to the data tested taking water as the medium. With different viscosity and density of medium will use different electrical power
WRL-H-130	2 " x1.5 "	0-10	2.5"	5.5/7.5	2900	0-2	
WRL-H-160	2.5 " x2 "	0-20	3"	11/15/18.5	2900	0-3	
WRL-H-190	2.5 " x2 "	0-30	3.5" /4"	22/30	2900	0-4	
WRL-H-210	3 " x2.5 "	0-40	4" /5"	30/37	2900	0-5	

Shape Size



Model	Outlet X liquid inlet (KW)	Dimension									
		A	B	C	D	E	F	K	L	H	G
WRL-H-100	3/4	73	172	425	135	320	75	350	600	920	450
WRL-H-130	5.5/7.5	91	175	455	155	405	150	450	8900	1100	600
WRL-H-160	11/15/18.5	91	159	495	155	435	200	500	1000	1250	600
WRL-H-190	22/30	114	159	495	185	435	200	500	1000	1250	750
WRL-H-210	30/37	114	159	535	185	435	250	600	1000	1250	750

Operation Principle

WRL-B efficient online mixer system is the latest generation of solid and liquid, liquid and the liquid fast, efficient hybrid systems equipment. The system has powerful Central vacuum of power system to ensure operation of the system efficient, safe and reliable, but also the clever design of a set of precise and bite Rotor will close subsystems, making efficient online mixer with a variety of unique and mutual reunification of the Function. In the unique and compact structure of the system, two systems synergy, working together, so that non-homogeneous materials in a small space rapidly and thoroughly mixed and heterogeneous, and may even be a meticulous verification of stability to repeat Production results.



Main Parameters

Model	Flow rate (T/H)	Powder suction capacity (T/H)	Layer of rotor-sator	Power of in-line mixer (KW)	Rotation speed of inline mixer and self-priming pump (r/min)	Remarks
WRL-B-120	0.5-5	0-1	4	4	2900/1450	The flow in the table refers to the data tested taking water as the medium. The feeding pump will be used different type according to medium's property
WRL-B-140	1-8	0-1.5	6	5.5/7.5	2900/1450	
WRL-B-165	1-12	0-2	6	7.5/11	2900/1450	
WRL-B-180	1-15	0-3	6	11/15	2900/1450	
WRL-B-180	1-12	0-3	8	15/18.5	2900/1450	
WRL-B-200	1-20	0-3.5	8	18.5/22	2900/1450	
WRL-B-200	1-18	0-3.5	10	22/30	2900/1450	
WRL-B-230	2-30	0-4	10	30	2900/1450	
WRL-B-250	2-40	0-5	10	37	2900/1450	



System Portfolio

Table system: according to different application requirements, select SUS304 or 316L stainless steel manufacturing. The relatively closed system equipment, cleaning, sanitation, safety, aesthetics, easy to operate;

Dry powder feeding: v-dry powder for solid feeding the mouth of Health with adjustable valves. Can choose manual or pneumatic control;

Control Valve: Yes conditioning systems must be part of the system at the same time to adjust the volume and velocity;

Endoscopic: (choose to install): To observe the entire system operators provide a convenient working conditions and visual instructions.

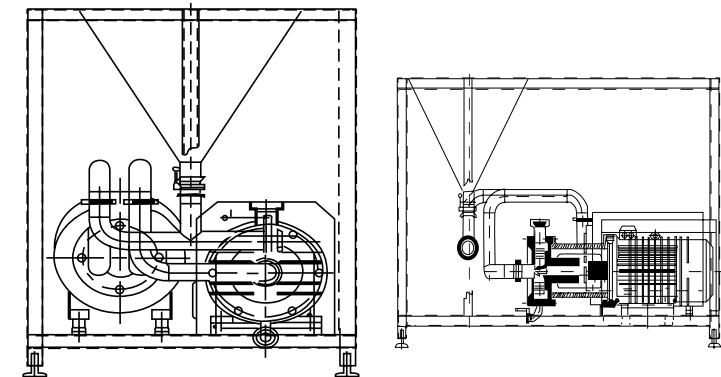
System emptying system (based on customer requirements choose to install); can be used for cleaning, emptying and sampling.

Efficient mixer: the system is the core components, the ingenious design of a precise and bite Rotor will close subsystems, making efficient online mixer with a variety of unique and reunification of the functions of each other.

They are asked to the relatively high rate of high-speed rotation, but not direct contact with each other, not wear. Health centrifugal pump shape the structure from the structure, shaft, mechanical seals, seals and other imports are Germany; rotor, stator, the whole cavity are forging a stainless steel high-precision CNC machining centers from processing; system strong, secure, efficient, safe and reliable;



High effective dosing machine



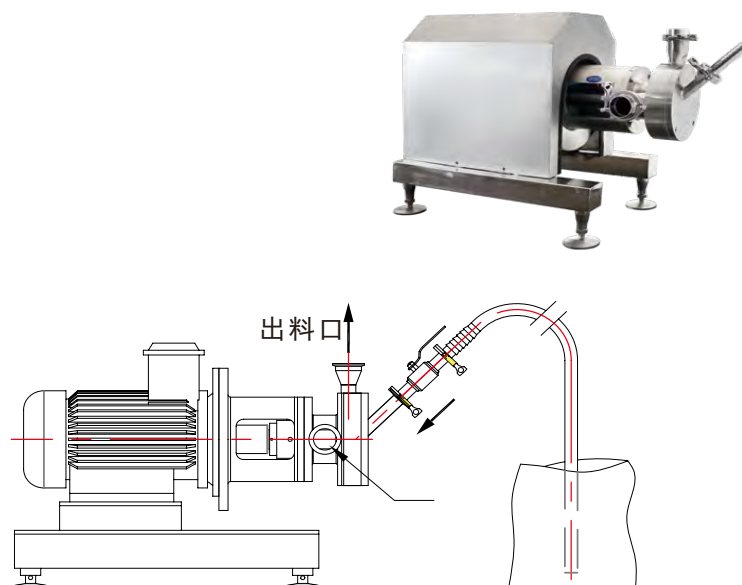
Operation Principle

WRL-C system is the use of special high-speed rotation of the rotor have a vacuum, the powder evenly inhalation chamber work, and it evenly distributed in the rapid flow of sap flow, the flow in the blink Secretary powder was completely wet, do not have a massive reunion Of. Then liquid and powder through a high-shear structure for the rotor to any possible spread of the block-poly, the last fully wet) and Yan evenly distributed the materials.



Main Parameter

Model	(KW) Power	(r/min) Rotation speed	(m ³ /h) Capacity	(Bar) Outlet pressure	(kgs) Powder Suction capacity
WRL-C-100	4	2900	0-5	1	0-200
WRL-C-120	5.5/7.5	2900	0-10	1.5	0-500
WRL-C-140	11/15	2900	0-20	1.5	0-1000
WRL-C-150	18.5/22	2900	0-30	2	0-1500
WRL-C-165	30/37	2900	0-40	2.5	0-2000
WRL-C-180	45/55	2900	0-50	2.5	0-2500
WRL-C-200	75/90	1450/2900	0-70	3	0-3000
WRL-C-220	110/132	1450/2900	0-100	4	0-5000





TAL-A固液混合机

TAL-A LIQUID AND POWDER MIXER

Operation Principle

The water and powder mixer is composed of main machine body and centrifugal pump water wheel, which are vertically installed. Through a double-layer wall pipe, the liquid materials and solid materials are separately pumped in. When the liquid enters into the main machine body of mixer at high speed, vacuum will produce in the center of water wheel to suck the solid materials. The solid materials will be evenly sucked in through the regulation of valve under the hopper. It has brief design and multiple functions. It can rapidly and evenly mix multiple solid materials without contacting the air. The mixing is enough and the product can be recycled. Under some conditions, use "online" and there is no need for recycling. Sanitary design and clamp connection with convenient assembly and disassembly. No need to dismantle any device during the cleaning and disinfecting. Mechanically close the valve to keep the inside sanitation. 40° standard hopper. Specially designed for manufacturers of dairy products and beverages, the equipment can be used to mix solid materials and liquid materials in the production of syrup, sorbitol, glucose.



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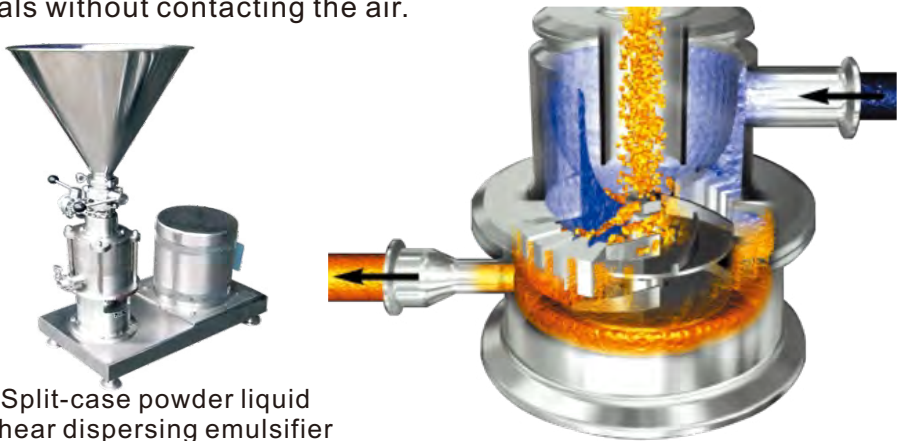


技术参数 Main Parameter

名称/规格 Name/specification	10T/H	20T/H	30T/H
叶轮直径 Impeller diameter	Φ160mm	Φ170mm	Φ180mm
进出液口径 Liquid inlet and outlet diameter	Φ38mm	Φ51mm	Φ63mm
最大工作压力 Max. work pressure	0.3Mpa	0.3Mpa	0.3Mpa
吸取温度 Absorbing temperature	≤80℃	≤80℃	≤80℃
电机功率 Motor power	3.0Kw	5.5Kw	7.5Kw
外形尺寸 Dimension	735X500X1005mm	800x500x1200mm	800x500x1300mm
机器重量 Weight	125kg	150kg	200kg

Operation Principle

The Powder liquid high shear dispersing emulsifier is composed of main machine boby and the gear of mixing pump, which are vertically installed.Through a double-layer wall pipe,the liquid materials and solid materials are separately pumped in, which can prevent them form agglomerating before entering into the main body. When the liquid enters into the main machine body of mixer at high speed, vacuum will produce in the center of rotor and stator to suck the solid materials. The soild materials will be evenly sucked in through the regulation of valve under the hopper. It has brief design and multiple functions. It can rapidly and evenly mix multiple solid materials without contacting the air.



TRS3 Split-case powder liquid high shear dispersing emulsifier



技术参数 Main Parameter

型号 Model	功率 (KW) Power	转速 (r/min) Rotation speed	流量范围 (m³/h) Capacity
TRS3-80	4	2900	0-1.5
TRS3-100	5.5	2900	0-3
TRS3-120	7.5	2900	0-4
TRS3-140	11/15	2900	0-5
TRS3-165	18.5	2900	0-8
TRS3-180	22	2900	0-12
TRS3-185	30	2900	0-18
TRS3-200	45	2900	0-25
TRS3-210	55	2900	0-35
TRS3-230	75	2900	0-50
TRS3-245	90	2900	0-75





TRS固液混合高剪切分散乳化机

TRS POWDER LIQUID HIGH SHEAR DISPERSING EMULSIFIER



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技术参数 Main Parameter

型号 Model	功率 (KW) Power	转速 (r/min) Rotation speed	流量范围 (m³/h) Capacity
TRS1-80	1.5	2900	0-1.5
TRS1-100	2.2	2900	0-3
TRS1-120	4	2900	0-4
TRS1-140	5.5	2900	0-5
TRS1-165	7.5	2900	0-8
TRS1-180	11	2900	0-12
TRS1-185	15	2900	0-18
TRS1-200	22	2900	0-25
TRS1-210	30	2900	0-35
TRS1-230	45	2900	0-50
TRS1-245	55	2900	0-75
TRS1-260	75	2900	0-90
TRS1-275	90	2900	0-110
TRS1-280	132	2900	0-130



TRS1 Split-case powder liquid high shear dispersing emulsifier



TRS1 Verticle powder liquid high shear dispersing emulsifier

技术参数 Main Parameter

型号 Model	功率 (KW) Power	转速 (r/min) Rotation speed	流量范围 (m³/h) Capacity
TRS1-80	1.5	2900	0-1.5
TRS1-100	2.2	2900	0-3
TRS1-120	4	2900	0-4
TRS1-140	5.5	2900	0-5
TRS1-165	7.5	2900	0-8

HD Process supply vertical (COL-V) and in-line (COL-P) colloid Mills. Colloid mills work on the rotor-stator principle: a rotor turns at high speeds (1400 2800 RPM). These mills allow for adjustment of the gap between the (coned) rotor and stator with wider settings providing a slightly coarser product texture if required. In some cases for in-line mills with high viscosity product a pusher pump may be required.

Colloid mills can work with chunkier, more viscous and more sticky products compared to standard emulsifiers. Some of the tricky application where colloid mills come into their own include - mincemeat (for pet food), peanuts (to become peanut butter), chillis (for sauces), almonds (for almond milk).

The internal forces evenly disperse, emulsify, smash and homogenize various semi-liquids, liquids and emulsions.

Colloid Mill Industries

Food industry; Chemical industry; Daily chemicals; Pharmacy; Other industries;

Model	Emulsified granularity Single cycle or multi-cycle(um)	Regulating range(mm)	Output (variable with different medium) (t/Hr)	Electrical power (KW)	Rotatiuon speed (r/min)	Stand Voltage	Diameter of milling slice	Diameter of feed inlet	Diameter of feed outlet	Port size of cooling system	Dimension L xWxH (mm)
CO-V50	5-40	1-0.01	0.01-0.2	1.1	2900	380	50	32	15	1/8"	420×280×760
CO-V 80	3-40	1-0.01	0.3-1	3	2900	380	80	50	25	1/4"	520×400×900
CO-V100	2-40	1-0.01	0.5-2	5.5	2900	380	100	50	32	1/4"	560×420×950
CO-V120	2-40	1-0.01	0.7-3	7.5	2900	380	120	65	40	1/4"	560×420×950
COL-V 80	2-40	1-0.01	0.3-1	4	2900	380	80	50	25	1/4"	640×550×1030
COL-V100	2-40	1-0.01	0.5-2	5.5	2900	380	100	50	32	1/4"	750×620×1080
COL-V120	2-40	1-0.01	0.7-3	7.5	2900	380	120	65	40	1/4"	750×620×1080
COL-V140	2-40	1-0.01	1-4	11	2900	380	140	80	40	1/4"	820×700×1250
COL-V180	2-40	1-0.01	2-7	15	2900	380	200	120	65	1/4"	980×800×1550
COL-V280	2-40	1-0.01	3-10	22	2900	380	250	120	65	1/4"	1140×900×1850

COL-V AND CO-V VERTICAL COLLOID MILL



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Sanitary split-case colloid mill
(COL-V) (sanitary version)



Normal vertical colloid mill
(CO-V) (normal version)



Normal split-case colloid mill
(COL-V) (normal version)

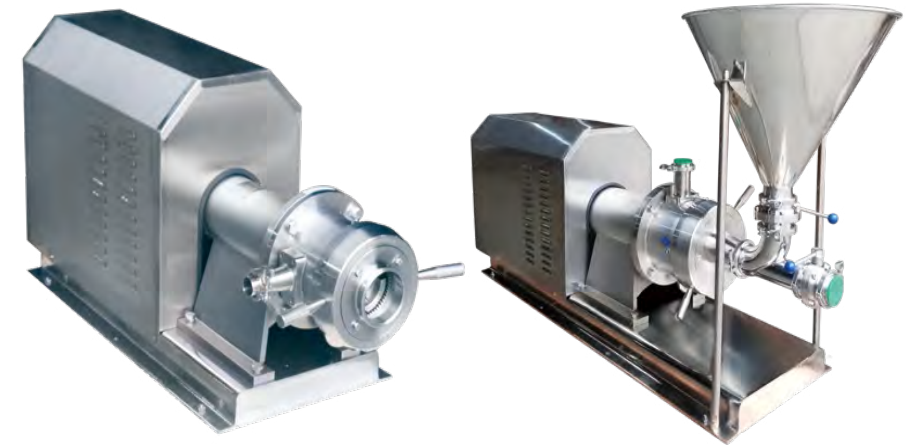


Sanitary vertical colloid mill
(CO-V) (sanitary version)

The in-line type colloid mill is a horizontal design, with high-speed rotation, and adjustable gap between rotor and stator. The rotor turns at high speeds (1400 2800 RPM). Wider head settings providing a slightly coarser product texture if required. In some cases for in-line mills with high viscosity product a pusher pump may be required.

Colloid mills can work with chunkier, more viscous and more sticky products than comparable standard in-line emulsifiers. Some of these applications include mincemeat and vegetable soups (for processed food).

The internal forces evenly disperse, emulsify, smash and homogenize various semi-liquids, liquids and emulsions.



In-Line / Pipeline Type Colloid Mill

Main Parameter

Model	Emulsified granularity Single cycle or multi-cycle(um)	Regulating range(mm)	Output(variable with different medium)(T/Hr)	(Electrical power(Kw)	(Rotation speed(r/min)	Diameter of milling slice	Diameter of feed inlet	Diameter of feed outlet	Port size of cooling system
COL-P 80	2-40	1-0.001	0.3-1	4	2900	80	50	25	1/4"
COL-P 100	2-40	1-0.001	0.5-2	5.5	2900	100	60	32	1/4"
COL-P 120	2-40	1-0.001	0.7-3	7.5	2900	120	65	40	1/4"
COL-P 140	2-40	1-0.001	1-4	11	2900	140	80	40	1/4"
COL-P 180	2-40	1-0.001	2-7	15/18.5	2900	200	120	65	1/4"
COL-P 280	2-40	1-0.001	3-10	22/30	1450/2900	280	120	65	1/4"
COL-P 320	2-40	1-0.001	4-15	37/45	1450/2900	320	150	76	1/4"



油，水和粉体混合乳化系统
WATER IN OIL WITH POWDER SUCTION MIXING EMULSION



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The system with jacketed heating/cooling system

Overview

When the high-speed super-fine emulsification paddle works, it throws the materials in the center of rotor to stator at a high speed, then through teeth clearance of stator and shearing, collision and crushing between rotor and stator, the super-fine emulsification is realized. Therefore, it is an integrated equipment comprising multi-function such as blending, emulsifying, homogenizing, solving and smashing etc.

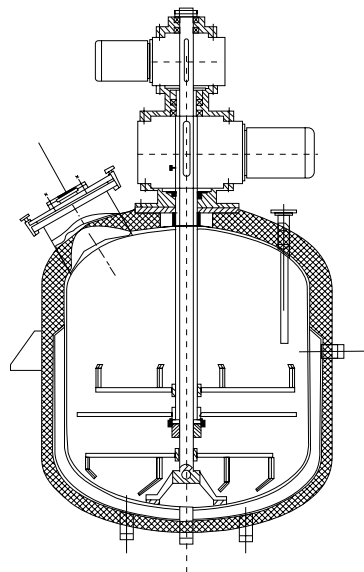
技术参数 Main Parameter

有效容积 Effective volume (L)	筒体尺寸(DxH) Dimension of tank(mm×mm)	总高(H) Total height (mm)	电机功率 Motor power (KW)	搅拌速度 Blending speed (r/min)
500	900x800	2200	3/4	2900
800	1000x1000	2600	4/5.5	2900
1000	1060×1220	2950	5.5/7.5	2900
2000	1340×1500	3400	11/15	2900
3000	1410×2000	3900	22/30	1450
4000	1620×2000	4030	30	2900
5000	1810×2000	4130	37	2900



Dverview

Bi-directional mixing melting glue tank is the main complete set equipment in process of melting glue, matching material, vacuum and condensation etc.The mode of stirring adopts bidirectional multilayer distributary stirring, the structure is compact, the transmission is balanced, the capability is stable;having the strong point such as stirring material equably, accelerating melting glues etc.



技术参数 Main Parameter

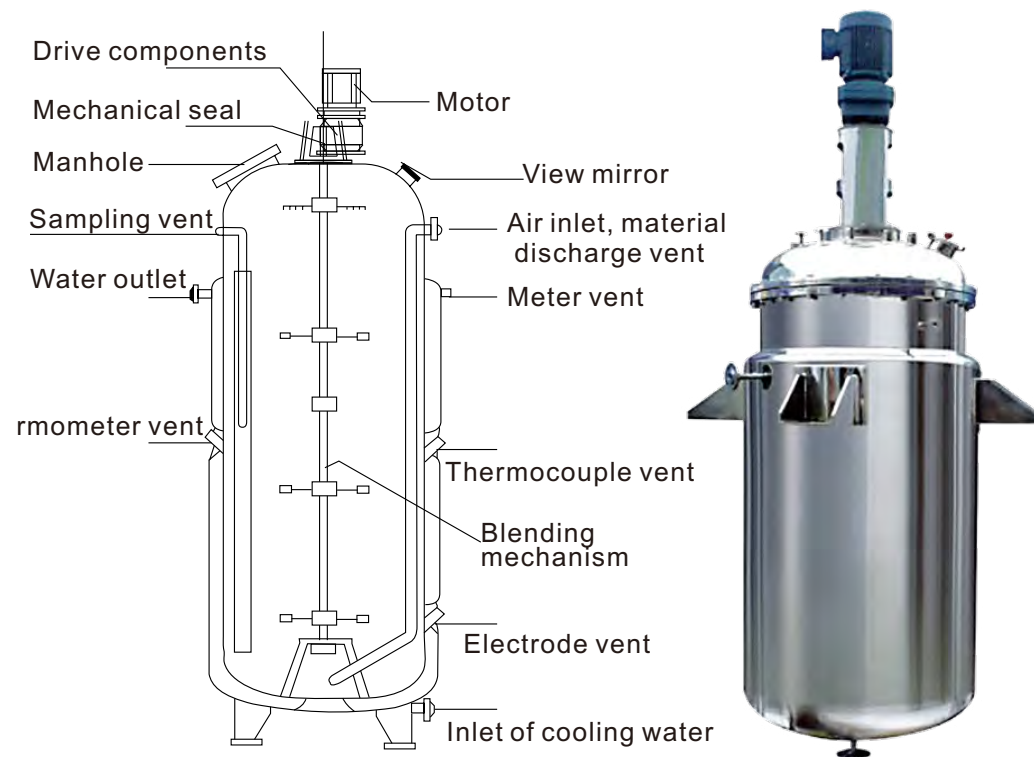
产品型号 Type of products	全容积 L The whole capability	有效容积 The valid capability	加热面积 m ² Heating area	真空度 Mpa Vacuum degree	工作温度℃ Working temperature	功率 (KW) Power	搅拌转速 转 / 分 Rotate speed for stirring
XSG-450	650	450	3.2	-0.09	≤ 100	5.5	25
XSG-600	900	600	4	-0.09	≤ 100	5.5	25
XSG-800	1120	800	4.8	-0.09	≤ 100	7.5	25
XSG-1500	1300	1000	5.5	-0.09	≤ 100	7.5	25

Overview

It's a kind of equipment for mechanical mixing and fermentation, it's inner circulation type, dispersing foam by blades and breaking them into pieces. Asepsis respiration system or asepsis compression ferment system are specially design and in stallation parts. Tank body covered with jacket, material mecium circulation heating or cooling can be done via jacket.

技术参数 Main Parameter

Modle	100L	200L	500L	1000L	2000L	5000L	10000L	20000L
Specificatio								
Diameter (mm)	400	500	700	900	1200	1500	1800	2300
Height (mm)	2000	2300	2650	2900	3800	4480	5250	6550
paddle	1	1	2	3	3	4	4	4
Rotation speed of blending (r/min)	20-300							
Motor power (KW)	0.55	0.75	1.1	1.5	0.3	5.5	7.5	7.5
Pressure in jacket(Mpa)	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3
Pressure in tanl(Mpa)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2



Overview

The kettle can revolve within 180°level. The equipment is mainly for decocting and concentration of liquids in pharmaceutical industry, food industry, chemical industry and light industry etc. The mode of heating type is steam、thermal oil or electricity heating. The parts of the equipment contacting with materials are made of stainless steel SUS304 /SUS316. It has perfect corrosion-proof performance, and is highly durable according to GMP requirements. Blender also can be added according to customer requirements.

技术参数 Main Parameter

Nominal volume	50	100	200	300	400	500	600	800	1000
Caliber (mm)	Φ600	Φ700	Φ800	Φ900	Φ1000	Φ1100	Φ1200	Φ1300	Φ1400
Deep pot (mm)	400	450	530	630	680	730	780	830	900
Heat transfer Are (m ²)	0.45	0.58	1.12	1.42	1.75	2	2.3	3.2	3.9
Electric power (KW)	9	9	15	18	18	24	24	27	30
HTF volume (L)	30	36	45	60	70	80	100	200	250
Working pressure	≤ 0.09Mpa (Can Be Adjusted According To Customer Usage Design)								
String speed	36 r/min(Can Be Adjusted According To Customer Usage Design)								
Mixing power (KW)	0.55	0.55	0.75	1.1	1.1	1.5	1.5	2.2	2.2





整体直冷式冷藏罐
INTEGRAL DIRECT COOLING STORAGE TANK

Operation Principle

The integral direct-cooling type refrigerating tank, here in after referred to as the refrigerating tank, is mainly used for freshness maintenance, cooling and storage of liquid materials. The refrigerating tank is mainly composed of tank body, blender, refrigerating unit and electric control etc.The tank body is completely made of SUS304 stainless steel and subjected to precise polishing treatment so that dirt is not easily accumulated in it and it is easy to be cleaned with corrosion resistant performance.



型号 Model	容量 VOLUME	制冷量 Refrigerating capacity	搅拌转速 Agiting speed	配用功率 Matched power	外形尺寸（长×宽×高） Dimension(L×M×H)
XS-F-0.5	500	3500W	36(24) r/min	1.5 KW	2200×1350×1150
XS-F-1	1000	6900W	36(24) r/min	3.0KW	2750×1150×1500
XS-F-2	2000	13000W	36(24) r/min	5KW	3200×1500×1600
XS-F-3	3000	17800W	36(24) r/min	6.5KW	3500×1650×1700
XS-F-5	5000	34000W	36(24) r/min	13KW	4000×1950×2100
XS-F-6	6000	34000W	36(24) r/min	13KW	4200×2200×2100
XS-F-8	8000	42000W	36(24) r/min	18KW	4800×2400×2400
XS-F-10	10000	65000W	36(24) r/min	24KW	5000×2600×2500





TAL-D型方形底部高剪切乳化罐

TAL-D SUCTION- POWDER MIXING DISPERSING EMULSIFIER

Operation Principle

Square bottom high cut emulsifying tank adopts high speed flow section to disperse and emulsify. The rotor guides flow out, which provide the liquid a verticle high speed cut to avoid the quality difference between the upper and lower layer. The high quality emulsifying work head at the rotation speed high up to 1450-2900r/min, which have good dissolving and emulsifying effect on the suger, milk powder and condiments production. It is the highest efficient machine among the equipments.

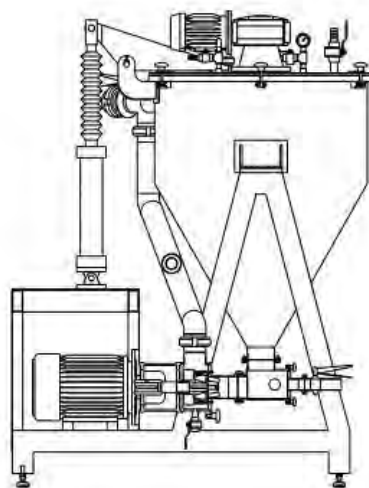
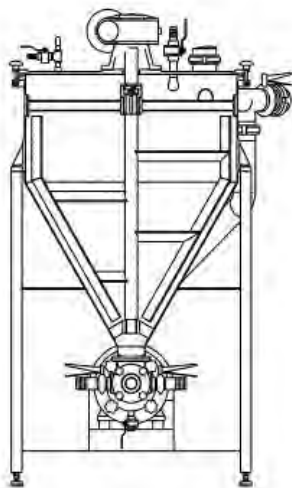
技术参数 Main Parameter

Volume	Dimension (mm)	Max.working pressure (Bar)	Max. working temp (°C)	Rotation speed (RPM)	Motor power (KW)
400L	720×1050×1500	常压 Normal pressure	100	1450	5.5
600L	850×1135×1700		100	1450	7.5
800L	1280×1420×1900		100	1450	11
1000L	1400×1540×2000		100	1450	15
2000L	1460×2150×2200		100	1450	22



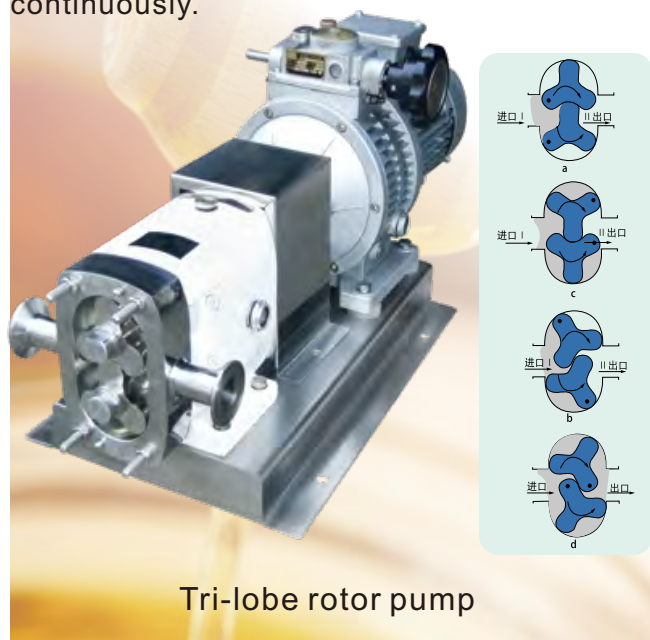
Operation Principle

This vacuum mixing emulsion system is our new advance technology research and development results, this system include inline high shear mixing emulsion pump, scraper blender system, vacuum system and related necessary auxiliary equipments. This system is widely used in Food Industry, Pharmaceutical Industry, Cosmetic Industry and Chemical Industry. Thanks to the special conical tank bottom and scraper mixing system, even kinds of the medium in the tank is very easy to be mixed and emulsification, it can save at least 70% production time against the normal mixing tank. When this tank is working with the special inline high shear mixing emulsion pump, this system don't need extra any other positive displacement pump, it can transferring high viscosity as circulation working by itself, So this system can save many purchase cost and production cost for our clients.

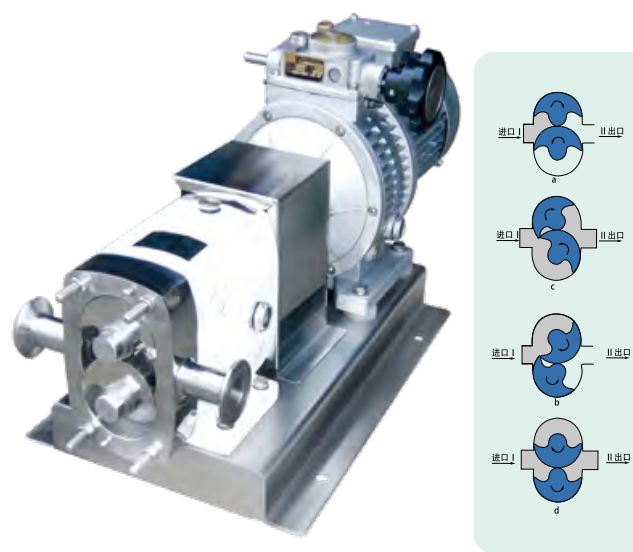


Operation Principle

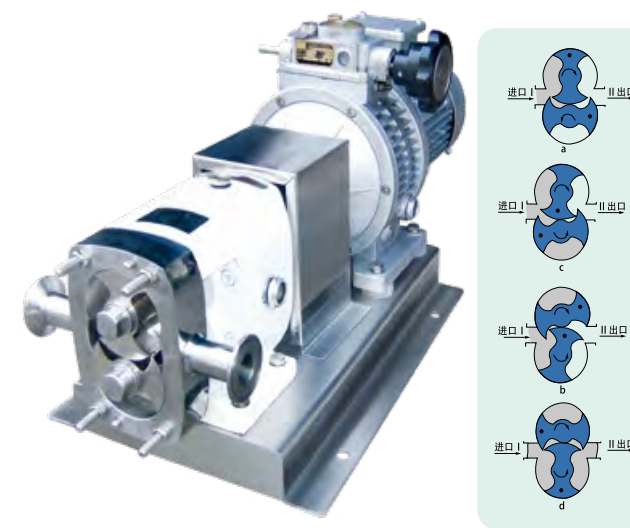
Rotor pump is also named rotary lobe pump, three-lobe pump, sole pump, etc. When the 2 simultaneous reverse rotating rotors(with 2-4 gears)revolve, it produces suction force at the inlet(vacuum),which intakes the material delivered.The 2 rotors divide the rotor housing into many smaller parts and revolve in the sequence of $a \rightarrow b \rightarrow c \rightarrow d$.When it revolves to position a,only housing is filled with medium;when it revolves to position b,housing B encloses part of the medium,when it goes to position c,housing A encloses medium, and finally it goes to position d,then housing A,B and II are interlinked and the medium is transported to the outlet.As this process is repeated,medium(material)is transported continuously.



Tri-lobe rotor pump

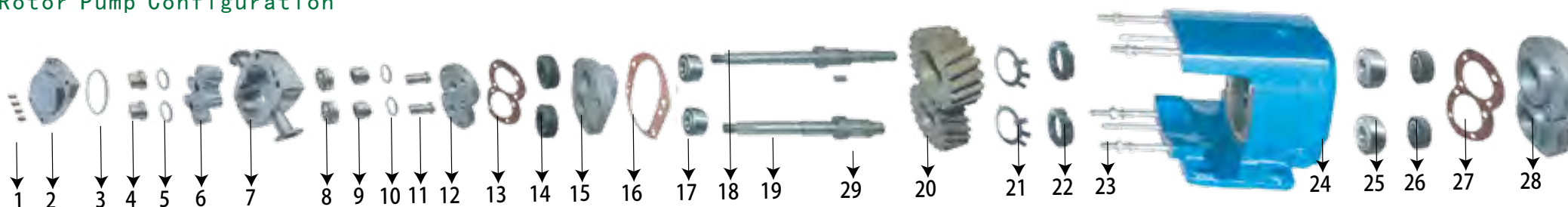


Single-wing rotor pump



Double-wing rotor pump

转子泵结构图
Rotor Pump Configuration



- 1.Screw cap 2.Pump cover 3.Seal ring 4.Cap 5.Seal ring 6.Rotor 7.Pump cavity 8.Mechanical seal (stationary ring)
9.Mechanical seal(moving ring) 10.Seal ring 11.Bearing sleeve 12.Bearing cover 13.Seal gasket 14.Rubber oil seal
15.Bearing seat 16.Seal gasket 17.Bearing 18.Upper shaft 19.L ower shaft 20.Helicalgear 21.Stop washer 22.Cap
23.Screw 24.Pump body 25.Bearing 26.Rubber oil seal 27.Seal gasket 28.Bearing cover 29.Pin



Applications Of Stainless Steel Rotor Pump

Food Industry: Yogurt, Fresh Butter, Ice Cream, Cheese, Whey, Beer, Wort, Yeast, Soft Drink, Fruit Jelly, Fruit Drink, Ketchup, Fruit Puree,, Etc.

Daily Chemicals: Cleansing Facial Milk, Hair Gel, Detergent, Shampoo, Shoe Polish, Cosmetics, Perf-umery Compound, Soap, Balsam, Etc.

Pharmacy: Various Pill, Paste, Emulsifier, Syrup, Nutrition Liquid, Chinese Traditional Patent Medicine, Medicine Grease, Biological Products, Fish

Chemical Industry: Fat, Dissolvent, Resin, Polymer, Paint, Pigment, Dyes, Coating Material, Lubricant, Lubricating Grease, Oil Agent, Emulsified Etc.

Construction Industry: Various Coating, Including Indoor/outdoor Wall Coating,, Ceramic Coating, Paint Coating, Ceramic Glazing, Etc.

Other Industries: Plastic Industry, Textile Industry, Papermaking Industry, Coal Flootation Agent, Nanometer Material, Biochemical Industry, Etc.



ZB3A型凸轮转子泵

ZB3A Series CAM ROTARY LOBE PUMP

Special Structure

Butterfly rotor pump:with butterfly rotor,it is superior to other rotor pump when transferring material with high viscosity and largerpowder and effectively transports extremely stiff material. Single butterfly curved rotor pump(partial rotor pump):this pump series are specially design to transport material with larger powder.Its unique shape and curve makes it more outstanding compared to other pumps in delivering material with larger pantical.It effectively prevents powders from clashing,which is the top choice of pumps transferring material with powders.



Movable rotor pump
with mixing tank



Stuffing product feeding rotor
pump(top in,bottom out)

技术参数 Main Parameter

型号 Model	每百转排量 (L) Flow per 100 rotation	建议调速范围 Speed range (RPM)	对应流量 (L/H) Capacity	电机功率 (KW) Power
ZB3A-3	3L	200-500	300-800	0.55
ZB3A-6	6L	200-500	650-1600	0.75
ZB3A-8	8L	200-500	850-2160	1.5
ZB3A-12	12L	200-500	1300-3200	1.5-2.2
ZB3A-20	20L	200-500	2100-5400	1.5-3
ZB3A-30	30L	200-500	3200-6400	2.2-4
ZB3A-36	36L	200-400	3800-7600	2.2-4
ZB3A-52	52L	200-400	5600-11000	3-5.5
ZB3A-70	70L	200-400	7100-14000	4-7.5
ZB3A-78	78L	200-400	9000-18000	4-7.5
ZB3A-100	100L	200-400	11000-22000	5.5-11
ZB3A-135	135L	200-400	15000-30000	5.5-15
ZB3A-160	160L	200-400	17000-34000	5.5-18.5
ZB3A-200	200L	200-400	21600-43000	7.5-22
ZB3A-300	300L	200-400	32400-64800	11-30
ZB3A-400	400L	200-400	43200-86400	15-37



Z83A型凸轮转子泵 Z83A Series CAM ROTARY LOBE PUMP

Main Application Characteristics

High Viscosity Material Feeding Pump

It has a unique operation principle matching and can be used matching a powerful driving system, so that the rotor pump can output a powerful driving moment at a low speed and ensure material feeding consistently, without stagnancy, and also can ensure that the material performance in the process of material feeding not be damaged. The medium viscosity can reach 1,00000CP fed by this pump.

Thin Medium Feeding Pump

When rotor pump feeding special thin medium, especially feeding thin medium without pulse as required, a big performance advantage can be shown. If the viscosity of the fed medium descends and leakage increases, driving system matched with rotor pump can improve the rotation speed and ensure the invariance of the output flux.

Sanitary Feeding Pump

All parts contacting with material are made of stainless steel which is conforming to sanitary standard, applicable to sanitary and erosion resisting place in fields of food, drinks, pharmacy, chemical industry, etc.



Heat Preservation Sleeve Design

Rotor pump with heat preservation sleeve function can be provided in different working places. This configuration can ensure the material which is easy to be coagulated during feeding to preserve the heat, without coagulation.

Water Cleaning Mechanical Seal

Mechanical seal configuration with water cleaning function can be provided, preventing equipment normal operation on the end surface of the mechanical seal from coagulation during feeding high viscosity material, and the service life mechanical seal in bad environment can be ensured.

Almost Have No Quick-wear Parts

It doesn't have any damage on the part during the rotor pump is operating (except mechanical seal), all parts contacting with material is made of stainless steel.

Choose The Driving System

Motor+fixed relative ratio speed reducer:the driving is easy with cons-tant rotary speed of the rotor,which also leads to nonadjustablity of flow.

Motor+mechanical abrasive stepless speed regulator:the speed regulator changes the speed by manual adjustment,which is safe,reliable and infinitive flow adjustment. But thenon-automatic adjustment is also troublesome.Speed regulating should be done in operation not in shutoff state.Pleasereferto manufacturer instruction for maintenance and servic.

Frequency transformed motor+ frequency transformer:it realizes both automatic adjusting and infinitive adjustment of flow.It is highly automatic and has large torque in low speed.But the frequency transformer is expensive.ase refer to manufacturer instruction for maintenance and service.



Step-less variator lobe pump



Frequency type lobe pump



Gear constant speed ratio lobe pump



PLC Frequency control lobe pump



ZB3A型凸轮转子泵

ZB3A Series CAM ROTARY LOBE PUMP

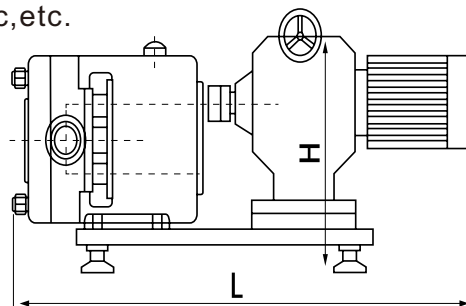
To Choose The Right Model And Achieve The Perfect Results, End-Users Please Consider Below Information:

Viscosity and temperature of medium (-20°C-150°C, highest sterilizing temperature 180°C.

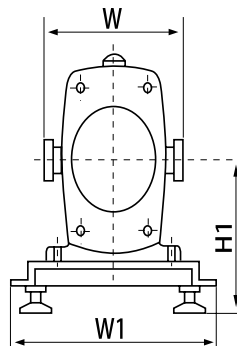
Delivery head, pressure and flow needed.

Type of interface (nipping fork, thread, flange) Valve body material: choose 304, 316 or 316L according to different medium Cooling or heating device can be equipped.

Sealing material: standard rubber gasket is silicon rubber, different medium may use fluorine rubber, Ethylene-Propylene Terpolymerisate rubber, PTFE rubber, nitrile rubber. The standard mechanical seal is silicon carbide/hard alloy, and different medium may use graphite-silicon carbide, graphite-ceramic, etc.



Rotor pump installation instruction



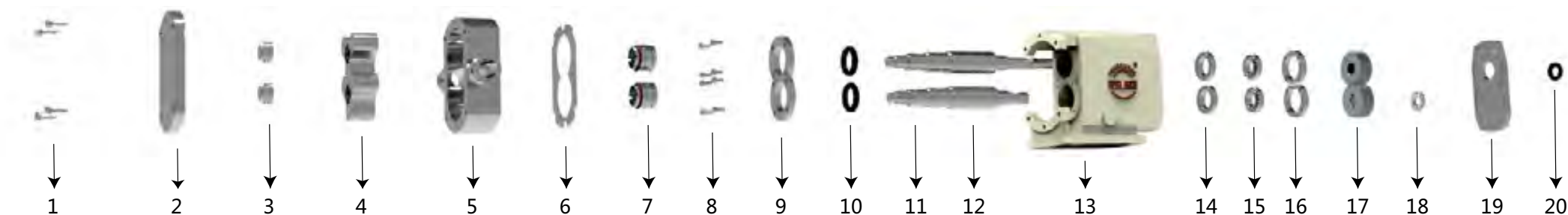
技术参数

Main Parameter

Mode	Power(KW)	Diameter	L	H	H1	W	W1	Connection type
ZB3A-3	0.55	φ 25X1.5	710	290	150	150	240	卡箍 (clamp) 螺纹 (thread) 法兰 (flange)
ZB3A-6	0.75	φ 25X1.5	780	390	170	190	240	
ZB3A-8	1.5	φ 32X1.5	850	400	170	190	280	
ZB3A-12	1.5-2.2	φ 38X1.5	980	450	185	220	330	
ZB3A-20	1.5-3	φ 38X1.5	1000	450	190	250	330	
ZB3A-30	2.2-4	φ 50.8X1.5	1050	480	220	270	350	
ZB3A-36	2.2-4	φ 38X1.5	1100	490	220	270	360	
ZB3A-52	3-5.5	φ 50.8X1.5	1250	580	260	270	480	
ZB3A-66	4-7.5	φ 63.5X1.5	1350	600	260	270	480	
ZB3A-78	4-7.5	φ 63.5X1.5	1260	600	295	370	480	
ZB3A-100	5.5-11	φ 76X2	1320	670	295	370	480	
ZB3A-135	5.5-15	φ 89X2	1500	670	295	370	480	
ZB3A-160	5.5-18.5	φ 102X3	1500	720	320	420	560	
ZB3A-200	7.5-22	φ 102X3	1500	720	320	420	560	
ZB3A-300	11-30	φ 125X3	1650	800	400	480	620	
ZB3A-400	15-37	φ 150X3	1700	800	400	480	620	

转子泵结构图

Rotor Pump Configuration



1.Screw cap 2.Pump cover 3.Cap 4.Rotor 5.Pump cavity 6.Mechanical seal 7.Mechanical seal 8.Screw 9.Front Bearing cover 10.Oil Seal 11.Upper shaft 12.Lower shaft 13.Pump body 14.Front Bearing 15.Back Bearing 16. Back bearing cover 17.Gear 18.Cap 19.Back cover 20.Oil Seal

Applications Of Stainless Steel Rotor Pump

Food Industry: Yogurt, Fresh Butter, Ice Cream, Cheese, Whey, Beer, Wort, Yeast, Soft Drink, Fruit Jelly, Fruit Drink, Ketchup, Fruit Puree, Vegetable Mash, Pudding, Fruit Jam, Jelly, Flavor, Fruit Stuffing, Sweet, Yeast, Seasoning, Meat Gruel, Candy, Syrup, Thin Cream Dressing, Chocolate, Etc.

Daily Chemicals: Cleansing Facial Milk, Hair Gel, Hair Dyes, Essence Oil, Toothpaste, Detergent, Shampoo, Shoe Polish, Cosmetics, Balsam, Etc.

Pharmacy: Various Pill, Paste, Emulsifier, Syrup, Nutrition Liquid, Chinese Traditional Patent Medicine, Fish Meal, Pollen, Royal Jelly, Vaccine.

Chemical Industry: Fat, Dissolvent, Resin, Polymer, Paint, Pigment, Dyes, Coating Material, Lubricant, Lubricating Grease, Oil Agent, Emulsified Asphalt, Adhesive, Plastic, Explosives, Glass Fiber Reinforced Plastics, Leather, Etc.

Construction Industry: Various Coating, Including Indoor/outdoor Wall Coating, Ceramic Coating, Paint Coating, Ceramic Glazing, Etc.

Other Industries: Plastic Industry, Textile Industry, Papermaking Industry, Coal Flootation Agent, Nanometer Material, Biochemical Industry, Etc.



ZB5A型凸轮转子泵

ZB5A Series CAM ROTARY LOBE PUMP

技术参数

Main Parameter

Model	Flow per 100 rotation (L)	Inlet/Outlet (mm)	Speed range (RPM)	Capacity (L/H)	Power (KW)
ZB5A-8	8	Φ25	50-500	200-2000	0.37-1.5
ZB5A-11	11	Φ32	50-500	300-3000	0.55-2.2
ZB5A-15	15	Φ32-38	50-500	400-4000	0.75-2.2
ZB5A-18	18	Φ38	50-500	500-5000	1.5-3
ZB5A-22	22	Φ38	50-500	600-6000	2.2-4
ZB5A-28	28	Φ38-51	50-500	750-7500	2.2-4
ZB5A-40	40	Φ51	50-500	1000-10000	3-5.5
ZB5A-50	50	Φ51-63	50-500	1300-13000	3-7.5
ZB5A-80	80	Φ63-76	50-500	2100-21000	4-7.5
ZB5A-100	100	Φ76	50-500	2700-27000	5.5-11
ZB5A-165	165	Φ76-89	50-400	4500-36000	7.5-18.5
ZB5A-200	200	Φ89	50-400	5400-43000	7.5-22
ZB5A-300	300	Φ102	50-400	8000-65000	11-30
ZB5A-380	380	Φ125	50-400	10000-80000	15-30
ZB5A-450	450	Φ150	50-400	12000-96000	18.5-37



Inlet/Outlet Horizontal



Vertical Inlet/Outlet



Function Principle

Any exquisite product or good functional product has a simple structure---including few component....sine pump is not an exception.

The sine wave shape of impeller means a cavity can be formed at every rotation (4 cavities can be formed every passing the lining space). This operation can "push" or "release" flowing products. The pump cavity is divided into suction chamber and extraction chamber by control panel to ensure pressure tolerances at exit and entrance. Meanwhile, control panel plays another important role to lubricate the pump bearing by product in compulsion. Sine pump----excellent efficiency, high viscosity Best selection of super low shear feeding Super low shear feeding Although with a great deal of solid particle and fragile product A safe and no damage feeding can be provided.

High viscosity performance reaches the limit of flowing capability Can reach 4,000,000cps. No pulse, stable feeding.

Flow cubage adjustment precisely, without interference and shock. Filling machine can supply a stable product dose evenly Sine pump: Special two sine-curve-like vane is taken, instead of rotor, epicyclic gear or piston, and it runs with a movable panel and a fixed line, forming a special volume pump and realizing liquid super low shear.



V type inlet sine pump



Gear constant speed ratio sine pump



Step-less variator sine pump



Frequency controlling movable sine pump

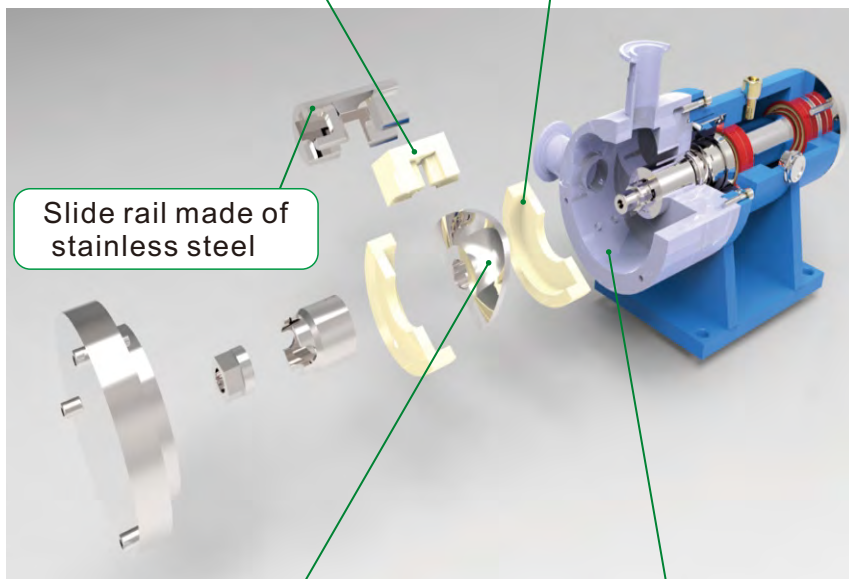
Control panel is made of different materials to divide suction mouth and extraction mouth, ensuring the exit pressure

According to different feeding mediums, lines are made of different material, such as polyamide, peek or stainless steel.

Slide rail made of stainless steel

Impeller is made of stainless steel, like a sine wave.

Pump house is made of stainless steel (W.No.1.4571)



技术参数

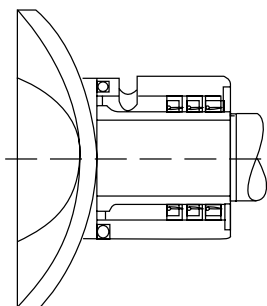
Main Parameter

Model	Displacement per rotation (L)	Diameter of inlet and outlet		Range of RPM (r/min)	Range of flow rate (L/H)	Electrical power	
		inch	mm			KW	HP
TS-SP-1"	0.06	1	25	50-1000	180-3600	1.5	2
TS-SP-2"	0.11	2	51	50-1000	330-6600	2.2	3
TS-SP-2.5"	0.28	2.5	63	50-600	840-11800	3	4
TS-SP-3"	0.45	3	76	50-600	1350-16200	4	5
TS-SP-3.5"	0.75	3.5	89	50-600	2250-27000	5.5	7
TS-SP-4"	1.05	4	102	50-600	3150-37800	7.5	10
TS-SP-6"	2.5	6	152	50-600	7500-90000	15	20

Many Configurations Can Meet The Demands Of Different Product Feedings

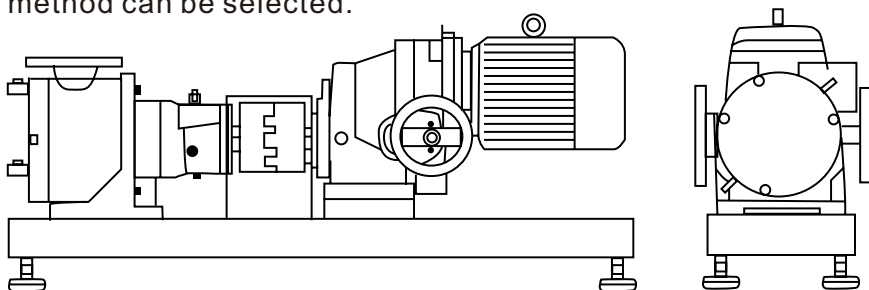
Triple Lip Shaft Seal

Low voltage application. Lip shaft seal is usually installed in a single shaft sleeve, without any damage on driving shaft.



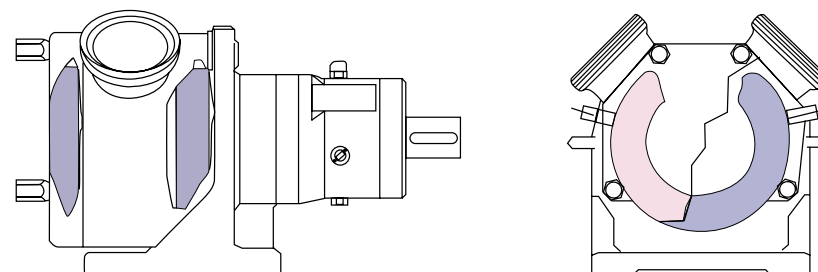
Driving Method In Special Application

As per different application, fixed or flexible rotation speed adjustment method can be selected.



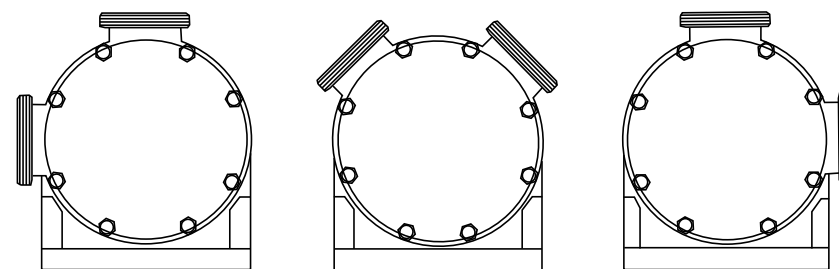
Heating Or Cooling

Many products (for example: sugar manufacturing industry) need to be heated or cooled. Pump house sleeve can be selected to connect with hot water supply system safely and conveniently.



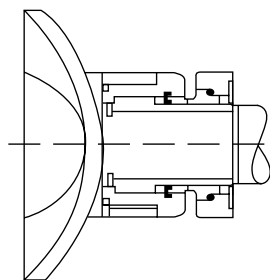
Many interface forms

hoop, thread and flange. Above shows the connection directions of entrance and exit which can be selected.



Single End Surface Or Double End Surface Mechanical Seals

The mechanical seal of sine pump conforms to food sanitary standard, ensures the cooling and sterilization are meeting the requirements of CIP (cleaning in place) and SIP (sterilization in place). Meanwhile, all seal systems can be replaced conveniently.



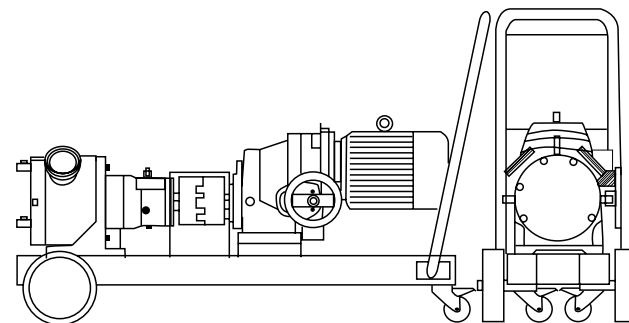
Other Cleaning Function Can Be Added On Shaft Seal

For 3A standard pump, single level inner set mechanical seal is taken to ensure cleaning, cooling and CIP cleaning and sterilization.



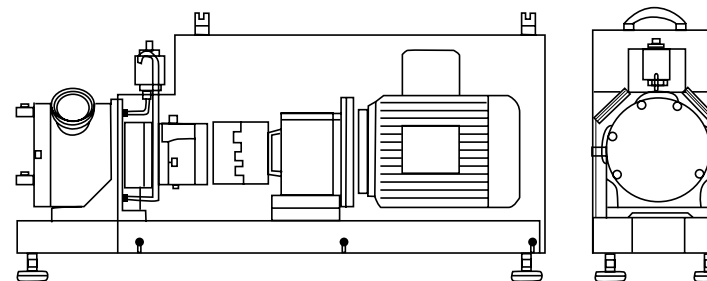
Support Plate

With coupling protective device, made of stainless steel. Both methods are equipped round feet, the height of it can be adjusted or can be brought outdoor. We also can provide a special solution.



Cover :Applicable For Extreme Humid Conditions

Driving motor can be protected specially by a stable cover. An open ventilation hole can ensure the safety of cooling driving system.



Product Description

XSPXP pumps provide you with a range of convincing advantages that together result in the highest possible cost and production efficiency. Using a modular system, we offers four pump sizes and different screw sets that cover a conveyance range of 40l/h to 150 m³/h with a unit size up to 40 mm diameter. The different screw sizes make it possible to handle a wide range of flow capacities with the same viscosities, operating pressures and rotation speeds, XSPXP pumps feature no metal-to-metal contact between the pump screws and the housing. This enables the conveyance of non-lubricating or corrosive and contained materials. As the pump rotates, the intermeshing of the two screws along with the pump housing form chambers. These chambers fill with the pumped fluid and move it from the suction side of the pump to the higher pressure discharge side of the pump.

Very flexible: The pump is designed to allow for reverse flow by simply changing the shaft direction. the pump come with a rotation speed of up to 3,600 rpm.



Advantage

1. Designed for reverse flow capabilities.
2. Shaft seal feeding makes the seal at the Atmospheric pressure, keep the pump's seal ability at the high pressure.
3. High self suction ability. Self-priming down to a vacuum of less than -0.8 bar when the pump is filled.
4. Big range of medium transferred: viscosity from 1~500000cst, the maximum size of 40 mm.
5. Large range of speeds, adjustable 100 up to 3,600rpm, make it possible to convey with one pump and also use it as a conveying aggregate.
6. Low-pulsation conveyance.
7. No dead spot, easy to clean, Compliance with 3A, FDA
8. Almost no abrasion.



双螺杆平行泵 DOUBLE SCREW PARALLEL PUMP

Working Principle

XSPXP twin screw pumps are self-priming, two contact-free Intermeshing screws and the pump housing form closed chambers that, according to the direction of rotation, constantly move towards the pressure discharge end of the pump. This axial system enables cautious, low-pulsation conveyance, different from impact force of centrifugal pump, squeezed of the lobe pump, reciprocating pulse of piston pump, our twin screw pump protects the media and maintains size, surface and visual integrity of the products.

This type twin screw pump is much better than other positive displacement pump, because of its big range of speed, which up to 3600 rpm.

The 2-in-1 principle conveys and cleans in one pump, due to the wide range of pump.

技术参数 Main Parameter

型号 Model	功率 (KW) Power	转速 (r/min) Rotation speed	处理量 (T/H) Handling capacity
XSPXP-70	1.5 - 2.2	720-2900	1 - 3
XSPXP-90	3 - 4	720-2900	3 - 9
XSPXP-110	4 - 5.5	720-2900	5 - 15
XSPXP-130	5.5 - 7.5	720-1450	10 - 20
XSPXP-160	7.5 - 11	720-1450	20 - 40
XSPXP-190	15-22	720-1450	30-60
XSPXP-220	30-45	720-1450	50-100

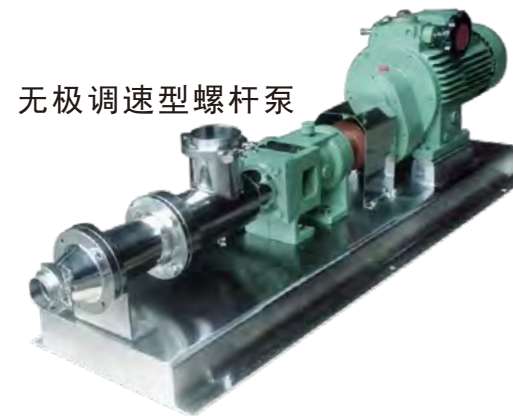


Wide Application

Single screw pump is used in all fields widely to feed kinds of medium, running at a constant pressure continuously, without pulse and damage when feeding medium, and change the gauging aim through adjusting rotation speed.



恒定转速型螺杆泵



无极调速型螺杆泵



圆形单螺杆转子
定子形状图



长方形进料口
带螺旋推送器

Feeding Medium

This product is applicable for feeding medium which has the following properties:

High solid content (diameter of the biggest particle is 50mm) or no solid content

Medium with all viscosities (1 mPas~3,000,000mPas)

Medium that is easy to be generated and swelled

Shearing sensitive medium

Medium with erosion

Medium with/without self lubrication

Erosive medium (PH=0~ 14)

Adhesive medium

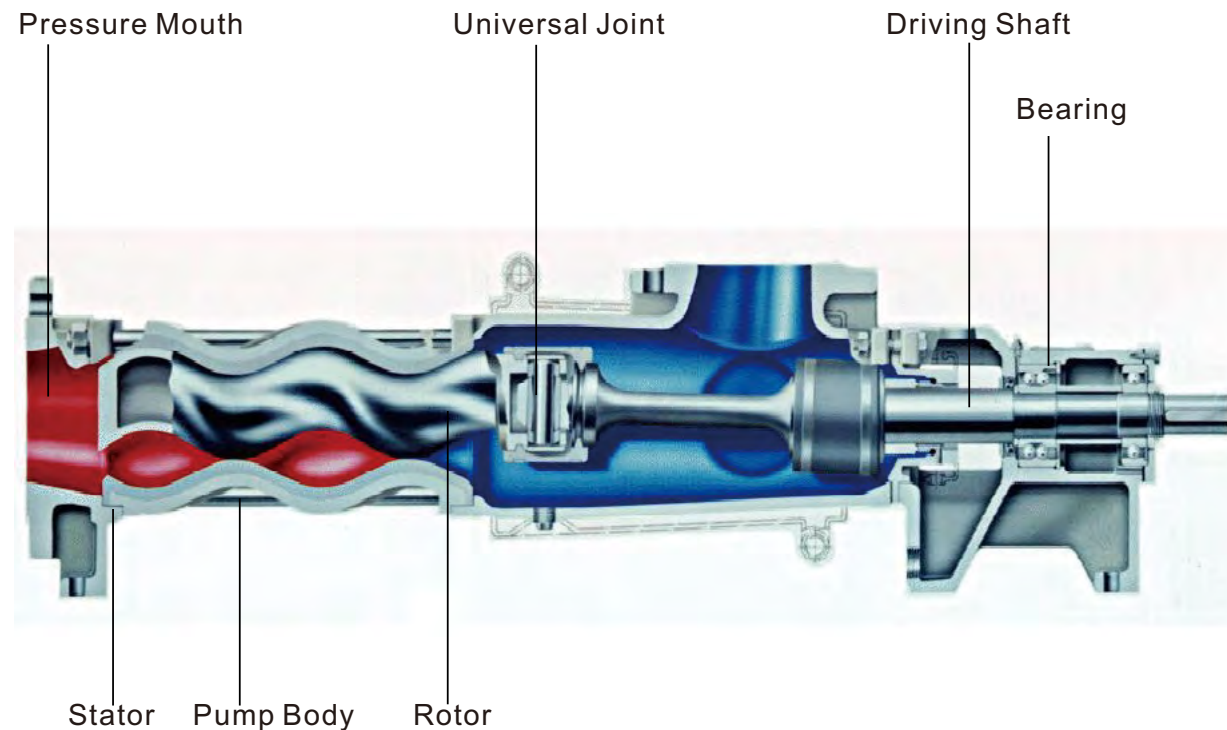
Toxicity hazard medium



Z83A型凸轮转子泵

Z83A Series CAM ROTARY LOBE PUMP

SINGLE SCREW PUMP



技术参数 Main Parameter

Model	Caliber (mm)	Rotation speed (r/min)	Flow rate (T/H)	Electrical power (KW)	Discharge pressure (Mpa)
G10-1-V	20	1400	0.5	0.37	
G15-1-V	25	960	1	0.55	0.4
G20-1-V	32	960	1.5	0.75	
G25-1-V	32	960	2	1.1	
G30-1-V	40	960	3	1.5	
G35-1-V	50	960	5	2.2	
G40-1-V	50	960	7	3	
	50	720	5.5	2.2	
G45-1-V	50	960	9	4	
	50	720	7	3	
G50-1-V	65	960	13	5.5	0.6
	65	720	10	4	
G55-1-V	76	960	18	7.5	
	76	720	13	5.5	
G60-1-V	89	960	22	11	
	89	720	17	7.5	
G65-1 V	80	720	30	11	
G85-1V	100	720	60	15	



Stainless quick-install triplet



Stainless welded triplet



Sanitary welded crose



Sanitary quick-install cross



Stainless "U" type triplet



Stainless steel tube support



Sani tary leather pipejoint



Sani tary reducer



Sani tary hoop



Sanitary union



Sanitary rebreather



Sanitary flordrain

FLAT VANE PUMP(NO-BLOCKING DISC PUMP)

Many pump application locations have severe working conditions, for example: the media containing solid particles, with large viscosity, containing gas, with strong abrasive and corrosive performance etc. have strong destruction to the pump and can severely decrease the pump performance. The excellent flat vane pump researched by our company can decrease the abrasion of pump, make no impact of medium to pump cavity and the medium will not be damaged.

Without Strict Tolerance Matching

The flat vane pump is not centrifugal pump, displacement pump, gear pump or vane pump. With its unique structure, it is the optimal combination of performance of traditional pump and pump technology for severe working conditions.

No Radial Load

The flat vane pump adopts the latest patented technology, which has not been used in any other pump. The flat vane pump makes full use of the natural force of boundary flow layer and viscous driving.



工业级平叶泵



物料片状流动

No Impact

The boundary flow layer is the boundary where the fluid molecules are gathered, which will rotate according to the flat vane. It can create a natural and protective buffer area that can separate the pump cavity from the fluid.

No Pulse

Through viscous pulling, the fluid will smoothly pass through the pump cavity without the occurrence of impact. The boundary layer will absorb and pull the excessive fluid molecules into the parallel fluid.

Media With Air

Because of the non-impact and sheet flow, even the bubbles will not be broken during the transportation. They can pass through the flat vane as smoothly as solid particles. Even if the transported fluid contains gas of more than 70%, there will have no occurrence of explosion and cracking of bubbles and there will have no occurrence of cavitation, noise and vibration etc.

Corrosion

Because of the protective boundary layer, the corrosive particles will not grind or abrade the surface of rotary flat vane. Even if the medium has strong corrosion, such as blowing dust or CO₂.

These rocks (10-80mm) are put into the flat vane pump cavity with the outlet of 2 inches. After continuous operation for several days, there has no damage or abrasion on the internal surface of pump. The flat vane pump has no large abrasion under the working conditions of strong corrosion, which is the reason why the service life of our pump is so permanent.



Sanitary flat vane pump



Industrial grade flat vane pump



Viscosity

When disposing fluid media of large viscosity, our flat vane pump can function more suitable than any other pump. The viscous pulling enables the fluid to naturally pass through the flat vane interval. Actually, the more viscous it is, the higher the efficiency will be increased. The flat vane pump can easily dispose fluid of viscosity exceeding 100,000cPs. When the viscosity of fluid is more than 350cPs, the power required by the flat vane pump is lower than that of the corresponding centrifugal pump.

Product Protection

Delivery of precision products and those products can not be destroyed in the flat leaf pump chamber, there is no impact from the edge of the impeller blade components, and only in a non-vortex flow of fluid contacts hang delivery. Flat leaf pump itself can provide sophisticated products protected from damage and in many cases can be eliminated completely.

Solid Particles

Even if the transposed medium contains solid particles of more than 80% ,the flat vane pump can smoothly transport it. The special and open design of the flat vane pump makes that there is no need of precise tolerance matching inside the pump cavity, so even larger solid particles will not be blocked inside the pump cavity.





平叶泵(无堵塞泵) FL AT VANE PUMP(NO-BLOCKING DISC PUMP)

Summary

The principle is that the special flat board is adopted as the vane. through the physical viscous driving and the special structure of flat vane. the medium will form laminar flow to pull the medium from the inlet and push it to the outlet centrifugal flat vane pump is designed to transport fluid medium through the physical viscosity driving and the laminar flow formed by the medium. Therefore, the medium will make bar-shaped flow inside the pump without impact. the medium contacting the vane and the flow layer of tube wall are static to the vane, and they can move synchronously without friction, so that there is no medium impact that may damage the product, and the laminar flow of pump can be protected. Therefore, the flat vane pump can absolutely solve the common problems of product damage, abrasion of vane and pump body caused by media, vane blocking and occurrence of cavitation etc. more economically and more efficiently. It is applicable for transporting media of different viscosity, media of high viscosity, media with solid particles, media requiring that the particles should be protected from being damaged and media requiring soft transportation and not be easily impacted by high speed centrifugal impact.

技术参数 Main Parameter

The parameter model	Flow rate(T/H)	Head (M)	power (KW)	Rotation speed(r/min)	Inlet	Outlet
TSPY-20-20-120	2	8	0.55	2800	DN20	DN20
TSPY-32-25-150	5	20	1.1	2800	DN32	DN25
TSPY-50-32-160	8	24	2.2	2800	DN50	DN32
TSPY-50-40-160	10	24	3	2800	DN50	DN40
TSPY-50-40-200	10	35	4	2800	DN50	DN40
TSPY-50-40-200S	8	12	2.2	1450	DN50	DN40
TSPY-65-50-160	25	25	4	2800	DN65	DN50
TSPY-65-50-200	25	35	5.5	2800	DN65	DN50
TSPY-65-50-250	25	50	7.5	2800	DN65	DN50
TSPY-65-50-200S	20	12	3	1450	DN65	DN50
TSPY-65-50-250S	20	18	4	1450	DN65	DN50
TSPY-80-65-200	50	35	11	2800	DN80	DN65
TSPY-80-65-250	50	50	18.5	2800	DN80	DN65
TSPY-80-65-250S	40	20	7.5	1450	DN80	DN65
TSPY-80-65-300S	40	32	11	1450	DN100	DN65
TSPY-100-80-200	80	35	15	2800	DN100	DN80
TSPY100-80-250	80	50	22	2800	DN100	DN80
TSPY100-80-250S	70	20	11	1450	DN100	DN80
TSPY100-80-300S	70	32	15	1450	DN150	DN80
TSPY150-100-250S	100	20	15	1450	DN150	DN100
TSPY150-100-300S	100	32	18.5	1450	DN150	DN100
TSPY150-100-400S	100	55	22	1450	DN150	DN100
TSPY200-150-250S	180	18	18.5	1450	DN200	DN150
TSPY200-150-300S	200	30	30	1450	DN200	DN150
TSPY200-150-400S	200	45	45	1450	DN200	DN150
TSPY250-200-250S	400	18	30	1450	DN250	DN200
TSPY250-200-300S	400	30	55	1450	DN250	DN200
TSPY250-200-400S	400	48	75	1450	DN250	DN200

Features

With simple structure,easy dismount,adjustable foot height,vibration-proof device ,low noises,high efficiency,long-term normal operation,easy maintenance,gentle and tender treatment, of materials this sanitary centrifugal pump series is your ideal choice.It complies with food sanitary standard and guarantees original taste of your products.

Applications

Mainly used in industries such as pharmacy,alcohol,foodstuff chemical and beverage to deliver liquid in small flow with high pressure and high pressure fitting.

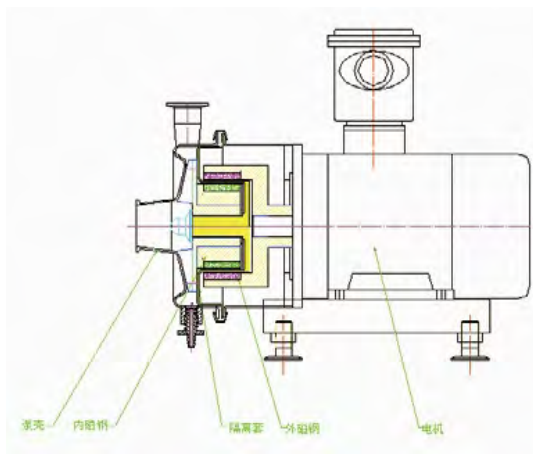
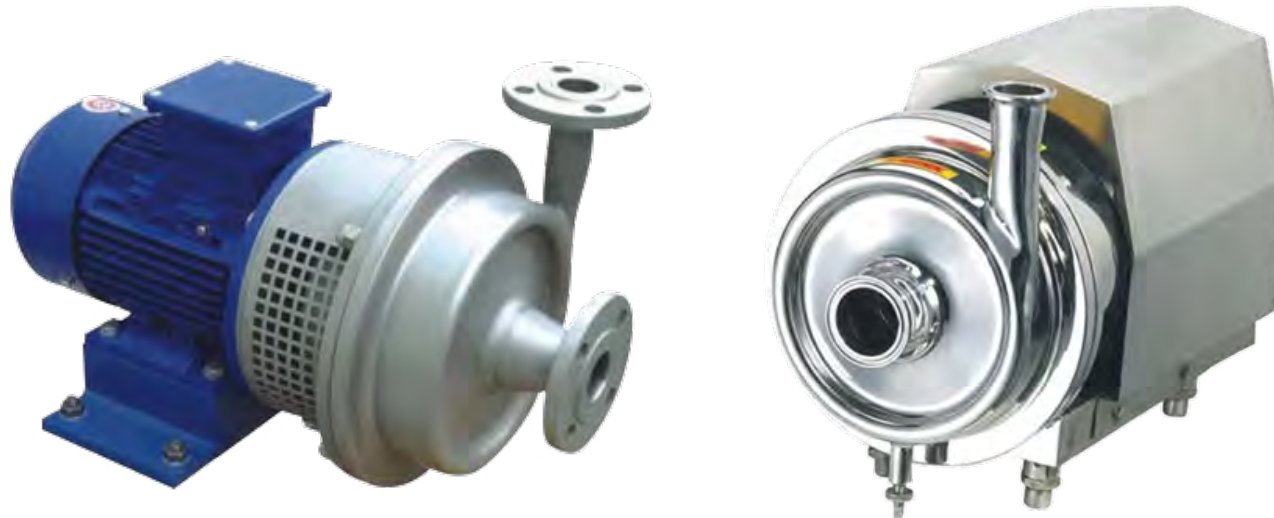


技术参数 Main Parameter

Model	Flow rate (T/H)	Head (M)	Caliber (mm)	Rotation speed(r/min)	Electrical power(KW)
BAW-1-10	1	10	32/25	2900	0.55
BAW-3-16	3	16	40/32	2900	0.75
BAW-5-24	5	24	40	2900	1.5
BAW-5-32	5	32	40	2900	2.2
BAW-10-24	10	24	50/40	2900	2.2
BAW-10-36	10	36	50/40	2900	3
BAW-20-24	20	24	50	2900	4
BAW-20-36	20	36	50	2900	5.5
BAW-30-24	30	24	65/50	2900	5.5
BAW-30-36	30	36	65/50	2900	7.5
BAW-40-36	40	36	80/65	2900	7.5
BAW-50-40	50	40	80/65	2900	11
BAW-80-30	80	30	100	2900	15
BAW-80-40	80	40	100	2900	18.5
BAW-100-40	100	40	125	2900	22
BAW-120-40	120	40	125	2900	30

How It Works

Sanitary centrifugal pump magnetic contact material used in all parts 316L\ 304 materials, permanent magnetic coupling through the motor to drive the impeller operation principle of working. Static welded isolation units to replace the dead seal dynamic mechanical seals, sanitary magnetic pump mechanical seal completely solve the inevitable run, run, drip of ils. Ring of silicone rubber, fluorine rubber, divided into semi-open impeller, closed,easy to clean and no dead ends meet, "the pharmaceutical industry quality management practices" related to GMP requirements. Widely used in chemical, pharmaceutical and food industry, transport petroleum plating acids, alkalis, oils, rare and precious liquid, venom, volatile liquid; Sanitary Magnetic pump especially flammable, explosive, drain liquid delivery. Also still in environmental protection, water treatment and other industries widely used.



The Adv. of sanitary maganetic pump features

1. With welded sealed isolation units to replace the static dead dynamic mechanical seals, mechanical seals leak completely solve dynamic problems.
2. Simple structure, easy to disassemble, easy to clean, no dead ends.

Sanitary Magnetic Pump Application

Liquid, alcohol, liquor, beer and other liquid delivery, widely used in pharmaceuticals, cosmetics, chemicals and beverage fields.



技术参数 Main Parameter

Model	Power (KW)	Full load current(A)	Voltage (V)	Imported caliber	Export caliber
XSCLP5-140	1.1	2.6	380	Φ50 , DN50	Φ328,DN25
XSCLP5-150	1.5	3.5	380	Φ50 , DN50	Φ328,DN25
XSCLP5-165	2.2	4.9	380	Φ50 , DN50	Φ328,DN25
XSCLP5-180	3.0	6.4	380	Φ50 , DN50	Φ328,DN25
XSCLP20-165	4.0	8.1	380	Φ50 , DN50	Φ50 , DN50
XSCLP20-180	5.5	11	380	Φ50 , DN50	Φ50 , DN50
XSCLP20-192	7.5	15	380	Φ50 , DN50	Φ50 , DN50
XSCLP20-210	7.5	15	380	Φ50 , DN50	Φ50 , DN50
XSCLP50-165	7.5	15	380	Φ76,DN80	Φ63.5,DN65
XSCLP50-180	11	22	380	Φ76,DN80	Φ63.5,DN65
XSCLP50-192	11	22	380	Φ76,DN80	Φ63.5,DN65
XSCLP50-210	15	29	380	Φ76,DN80	Φ63.5,DN65

Model	Power (KW)	Full load current(A)	Voltage (V)	Imported caliber	Export caliber
XSCLP1-100	0.37	0.95	380	Φ25 , DN20	Φ25 , DN20
XSCLP1-120	0.55	1.33	380	Φ25 , DN20	Φ25 , DN20
XSCLP3-110	0.55	1.33	380	Φ38 , DN32	Φ25 , DN20
XSCLP3-120	0.75	1.83	380	Φ38 , DN32	Φ25 , DN20
XSCLP3-140	1.1	2.6	380	Φ38 , DN32	Φ25 , DN20
XSCLP10-150	2.2	4.9	380	Φ50 , DN50	Φ38,DN32
XSCLP10-165	3.0	6.4	380	Φ50 , DN50	Φ38,DN32
XSCLP10-175	4.0	8.1	380	Φ50 , DN50	Φ38,DN32
XSCLP10-182	4.0	8.1	380	Φ50 , DN50	Φ38,DN32
XSCLP30-165	5.5	11	380	Φ63.5 , DN65	Φ50 , DN50
XSCLP30-180	7.5	15	380	Φ63.5 , DN65	Φ50 , DN50
XSCLP30-192	7.5	15	380	Φ63.5 , DN65	Φ50 , DN50
XSCLP30-210	11	22	380	Φ63.5 , DN65	Φ50 , DN50



CIP回程自吸泵 CIP SELF-PRIMING PUMP

Features

CIP self-priming pump adopts acid-resisting stainless steel (AISI 316) in valve body, which has unique acid and alkali resistance, and comply with sanitary requirements for foods.

As a positive displacement pump, its features are superior to centrifugal pump since it suction liquid mixed with air or foams and even merely air. It is widely used to suction material with liquid level below the pump, For instance in the milking room, it suctions milk from the milk barrel. It can also be used in automatic CIP cleaning system as return flow pump in cleaning tank. The mechanical sealing is the build-in influx type, and the temperature of suctioned material is no higher than 100°C.



Water



Beer



Beverages



技术参数 Main Parameter

型号 Model	扬程 Head (M)	吸程 Suction lift (M)	流量 Flow rate (T/H)	口径 Caliber (mm)	转速 Rotation speed (r/min)	功率 Electrical power (KW)
ZXB-10	10	5	5-10	51	1400	1.5
ZXB-20	15	5	10-20	63	1400	4
ZXB-25	18	5	15-25	63	1400	5.5
ZXB-30	20	5	20-30	76	1400	7.5



常见物料粘度参考 COMMON MATERIAL VISCOSITY REFERENCE

Dynamic Viscosity

Dynamic viscosity = kinematic viscosity x density

Common Units

1Pa . S= 1000m Pa . S= 10P= 1000CP

Pa . s: Pascal seconds

M Pa. s: mPa.s

P: Park CP: centipoise (CP= CPS)

物料介质 Material medium	粘度 (厘泊 cp) Viscosity (centipoise cp)	温度 (°C) Temperature (°C)	物料介质 Material medium	粘度 (厘泊 cp) Viscosity (centipoise cp)	温度 (°C) Temperature (°C)
水 /water	1		香波 /shampoo	3000	35
酸奶 /yogurt	152	40	花生油 /peanut oil	1000	
鸡蛋 /egg	150	4	蜜蜂 /bee	3000	20
牛奶 /milk	2	18	花生酱 /peanut butter	50000-150000	
啤酒 /beer	1.1	4.5	牙膏 /toothpaste	3000	21
巧克力 /chocolate	17000	49	豌豆蛋白 /pea protein	10000	35
葡萄糖浆 /glucose syrup	4300-8600	75-85	梨浆 /pear pulp	4000	70
果汁 /fruit juice	55-75	19	纸胶水 /paper glue	3000	22
止咳糖浆 /cough syrup	190	29	甘油 /glycerin	1500	20
洗涤剂 /detergent	1470	20	色拉酱 /salad dressing	1300-2600	19
面霜 /cream	10000	21	浓缩桔子 /concentrated oranges (30Brix)	630	21
洗发水 /shampoo	5000	21	浓缩桔子 /concentrated oranges (50Brix)	2410	21
乳液 /emulsion	200	21	奶油 50% 脂肪 /cream 50% fat	112	16



High speed mixing tank



High shear emulsifying and dosing machine system



Stainless steel compound liquid pot



Vertical milk cooling tank (aging tank)



CMC gum mixing emulsion system



Super high temperature instant sterilizer



Cip online cleaning system



Plate heat exchanger



Stainless steel batch-feeder tank



Sanitary quick-install butterfly valve



Sanitary quick-install ball valve



Sanitary quick-install butterfly-type ball valve



Pneumatic break valve



Sanitary sample valve



Sanitary check valve



Sanitary quick-install diaphragm valve



Sanitary pneumatic commutation Diaphragm valve



Sanitary adjusting valve



Sanitary stainless steel piping connected mirror



Sanitary aerometer



Sanitary cleaning ball