



温州市弘安机械有限公司

Wenzhou Hongan Machinery Co.,Ltd

温州市弘安机械有限公司

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企业简介

Enterprise brief introduction

温州市弘安机械有限公司是国内少数生产高精度机械设备的厂家，公司注重国际合作，引进国际先进加工设备，专注于卫生级泵，卫生级机械的制造，不断在卫生级产品领域，进行专业化投资，研发，扩大生产规模

公司的产品贯坚持“质量第一，客户至上”的品质政策，依照ISO9001，各项技术均达到同行业领先水平，符合GMP要求

公司坚信“用户是我们产品最好的体验员，市场是企业最公正的裁判员，承诺源自心灵深处的真诚，兑现成就你我”

温州市弘安机械有限公司以满腔热情，真诚和进步对待与您的每一次合作，并诚信恭候您的光临！

公司以优质的产品，优惠的价格，满意的服务，竭诚欢迎国内外朋友的合作，共创辉煌！

Wenzhou Hongan Machinery Co.,Ltd is one of the few manufacturer in china specialized in high precision fluid machine equipment ,Focusing on international cooperation, our company introduce internationally advanced machining equipment and devote itself to the manufacturing of sanitary pump , sanitary machine and etc.We are endlessly making professional investment ,research and development and expanding production scale in the field of sanitary products.

Our company persist the quality policy of quality first, customer satisfaction, and established effective production management system according to the ISO9001,All technical indexes have reached advanced level in the industry ,conforming to GMP requirement .

Our company believes that user are the best inspector of our products ,and market is the fairest judge of enterprises, promise stem from our sincerity from the bottom of our hearts and mutual benefit is achieve by fulfilling them.

With full enthusiasm ,sincerity and progress, Wenzhou Hongan Machinery Co.,Ltd cherishes every opportunity to cooperate with you and sincerely expects your visit.

With excellent products ,favorable price and satisfactory service ,our company sincerely hopes to cooperate with friends in china and abroad for mutual resplendence.

转子泵

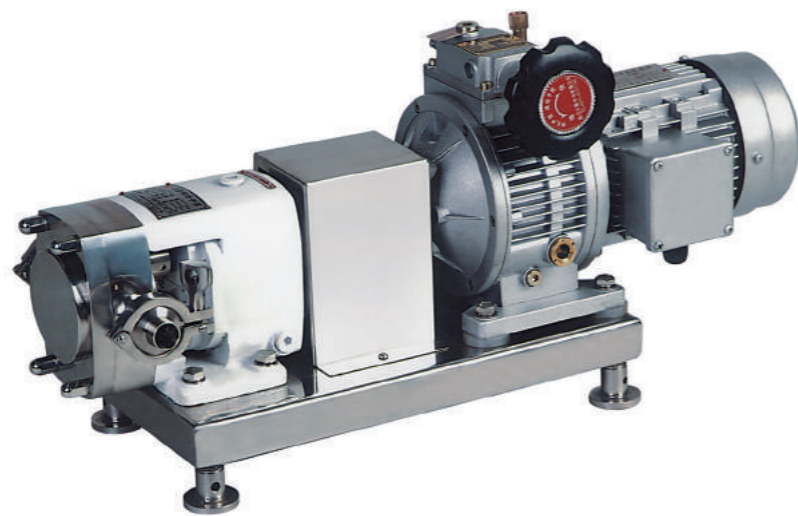
ROTARY LOBE PUMP

工作原理

转子泵又称胶体泵，三叶泵，鞋底泵等。依靠两同步反向转动的转子（齿数为2—4）在旋转过程中于进口处产生吸力（真空度），从而吸入所要输送的物料。两转子将转子室分隔成几个小空间，并按 a→b→c→d 的次序运转。运转至位置 a 时，只有 I 室中充满介质；到位置 b 时，B 室中封闭了部分介质；到位置 c 时，A 室中也封闭了介质；到位置 d 时，A、B 室与 II 室相通，介质即被输送至出料口。如此循环往复，介质（物料）即被源源不断地输送出。

Operation Principle

Rotor pump is also named rotary lobe pump, three-lobed 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 → b → c → d. When it revolves to position a, only housing I 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.



不锈钢转子泵的应用范围

食品工业：酸牛奶、鲜奶油、冰淇淋、乳酪块、乳清、啤酒、麦芽汁、酵母、汽水、水果冻、果汁、饮料、番茄酱、水果泥、蔬菜糊、布丁、果酱、果冻、调味剂、水果馅、甜味料、酵母、调味佐料、面包糕点、肉糜、碎肉、肉油、食用油、糖果、糖浆、稀奶油馅、巧克力等。

日用化工：面膏洗液、发型凝胶、染发剂、香油精、牙膏、洗涤剂、洗发精、鞋油、化妆品、香精、肥皂、香脂等。

制药工业：各型丸糊、乳化剂、糖浆、营养液、中药、膏状药剂、生物制品、鱼花粉、蜂皇浆、疫苗。

化工工业：脂肪、溶剂、树脂、聚合物、油漆、颜料、染料、涂料、润滑油、润滑脂、石油剂、乳化沥青、胶粘剂、塑料、炸药、玻璃钢、皮革等。

建筑行业：各种涂料。包括内外墙涂料、防腐料、陶瓷涂料、油漆涂料、陶瓷釉料等。

其它工业：塑料工业、纺织工业、造纸工业、煤炭浮剂、纳米材料、生物化工等行业。



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 , Bread, Meat Gruel , Comminuted Meat oil, Edible oil, Candy, Syrup, Thin Cream Dressing Chocolate, Etc.

Daily Chemicals: Cleansing Facial Milk, Hair Gel , Hair Dyes, Essence oil, Toothpaste, Detergent, shampoo, Shoe Polish, Cosmetics, Perfumery Compound, Soap , Balsam , Etc.

Pharmacy : Various Pill , Paste , Emulsifier , Syrup Nutrition Liquid , Chinese Traditional patent Medicine , Medicine Grease , Biological Products, 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 Floatation Agent , Nanometer Material, Biochemical Industry , Etc.

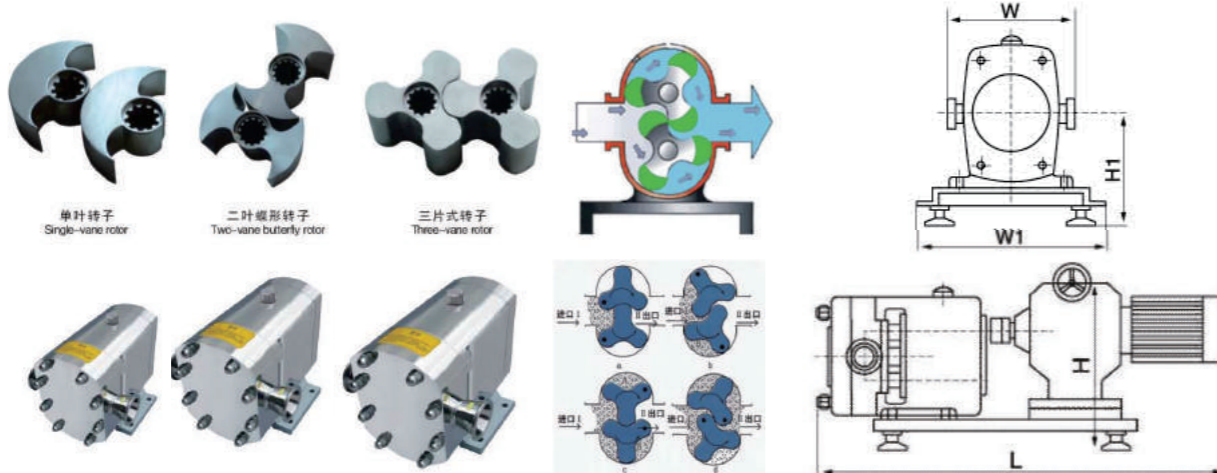
特殊的结构

蝴蝶型转子泵：由于采用了蝶形转子，所以其除了具有一般转子泵的特点以外，它在输送高粘度及内含较大颗粒的物料时，具有一定的优势，对特别粘稠的物料能够有效输送。

单蝶曲线型转子泵(颗粒转子泵):该系列泵是为解决输送内含大颗粒物料而专门设计制造的，其独特的形状和曲线形式使其能够在输送内含大颗粒物料时具有其他泵中不可比拟的优越性，在输送物料过程中它能够有效地避免颗粒破损，是输送含颗粒物料泵的首选。

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 pumptpowder rotor pump):this pump series are specially design to transport material with larger powde. Its unique shape and curve makes it more outstanding compared to other pumps in delivering material withlarger powder.It effectively prevents powders from clashing, which is the top choice of pumps transferring material with powders.



外形尺寸 Shape Size

型号 Model	电机功率 (KW)	接口尺寸 Diameter	L	H	H1	W	W1	接口形式 Connection type
ZB3A-3	0.55	Φ25x1.5	710	290	150	150	240	卡箍 (clamp)
ZB3A-6	0.75	Φ25x1.5	780	390	170	190	240	
ZB3A-8	1.5	Φ25x1.5	850	400	170	190	280	
ZB3A-12	2.2	Φ32x1.5	980	450	185	220	330	
ZB3A-20	3	Φ38x1.5	1000	450	190	250	330	
ZB3A-30	4	Φ50.8x1.5	1050	480	220	270	350	
ZB3A-36	4	Φ38x1.5	1100	490	220	270	360	
ZB3A-52	5.5	Φ50.8x1.5	1250	580	260	270	480	
ZB3A-70	7.5	Φ63.5x1.5	1350	600	260	270	480	
ZB3A-78	7.5	Φ63.5x1.5	1260	600	295	370	480	
ZB3A-100	11	Φ76x1.5	1320	670	295	370	480	螺纹 (thread)
ZB3A-135	15	Φ89x1.5	1500	670	295	370	480	
ZB3A-160	18.5	Φ102x1.5	1500	720	320	420	560	
ZB3A-200	22	Φ102x1.5	1500	720	320	420	560	

技术参数

Main Parameter

型号 Model	每百转排(L) Flow per 100 Rotation	建议调速范围(r/min) Suggested regulated RPM	对应流量(UH) 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	2.2
ZB3A-20	20L	200-500	2100-5400	3
ZB3A-30	30L	200-500	3200-6400	4
ZB3A-36	36L	200-400	3800-7600	4
ZB3A-52	52L	200-400	5600-11000	5.5
ZB3A-70	70L	200-400	7100-14000	7.5
ZB3A-78	78L	200-400	9000-18000	7.5
ZB3A-100	100L	200-400	11000-22000	11
ZB3A-135	135L	200-400	15000-30000	15
ZB3A-160	160L	200-400	17000-34000	18.5
ZB3A-200	200L	200-400	21600-43000	22

广泛适用输送：各种特殊物料、粘稠物料、不同比重的混合物、腐蚀性物料、大颗粒物料。
Widely used to deliver:various special material.stiff material,mixture with different specific gravity,corrosive material and material with larger powde.

注：表中流量范围是指介质为"水"时测定的数据。

调速采用无级变速机或变频器变速，其调速范围200~ 900rpm.

输送高粘度浓液时，电机功率须加大。

本表数据如有更改，恕不另行通知，正确参数以提供的实物为准。

Note: the flow in the table refers to the data tested taking water as the medium. Adopts stepless speed regulator or frequency transformer to adjust the speed, with speed adjustable in 200~900rpm.

The motor power should be increased when delivering high viscosity liquid The data in the table is subject to change without notice. See the actual products for the right data.

单螺杆泵

SCREW PUMP

广泛的应用

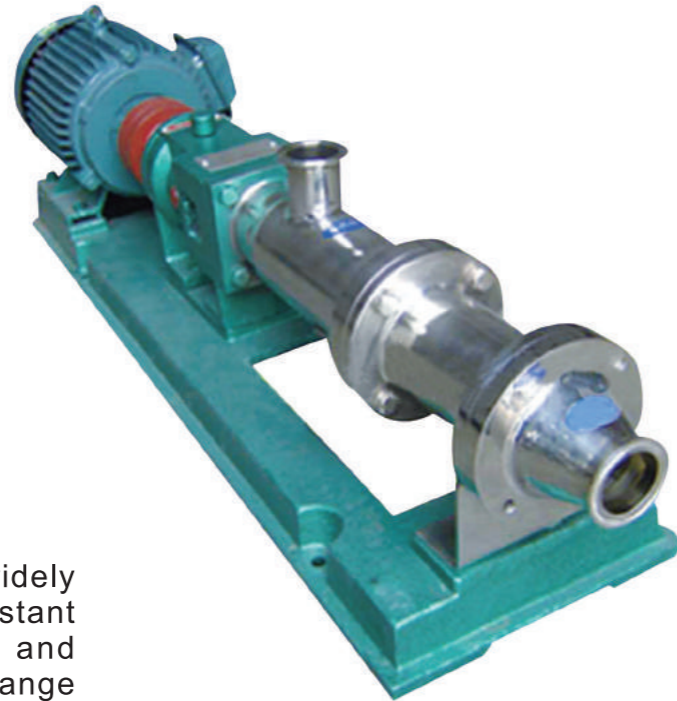
单螺杆泵被广泛用于各行业输送各类介质，恒压连续动行，无脉动，介质输送无破损，通过调节转速改变流量达到计量的目的。

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.

输送介质

本产品适合输送具有以下特性的介质
 固体含置高(最大粒径可达50mm)或无固体含量
 各种粘度(1mPas~3百万mPas)的介质
 触变性和易膨胀性介质
 剪切敏感性介质
 磨蚀性介质
 有/无自润滑性的介质
 腐蚀性介质<PH=0~14>
 粘结性介质
 有毒性介质



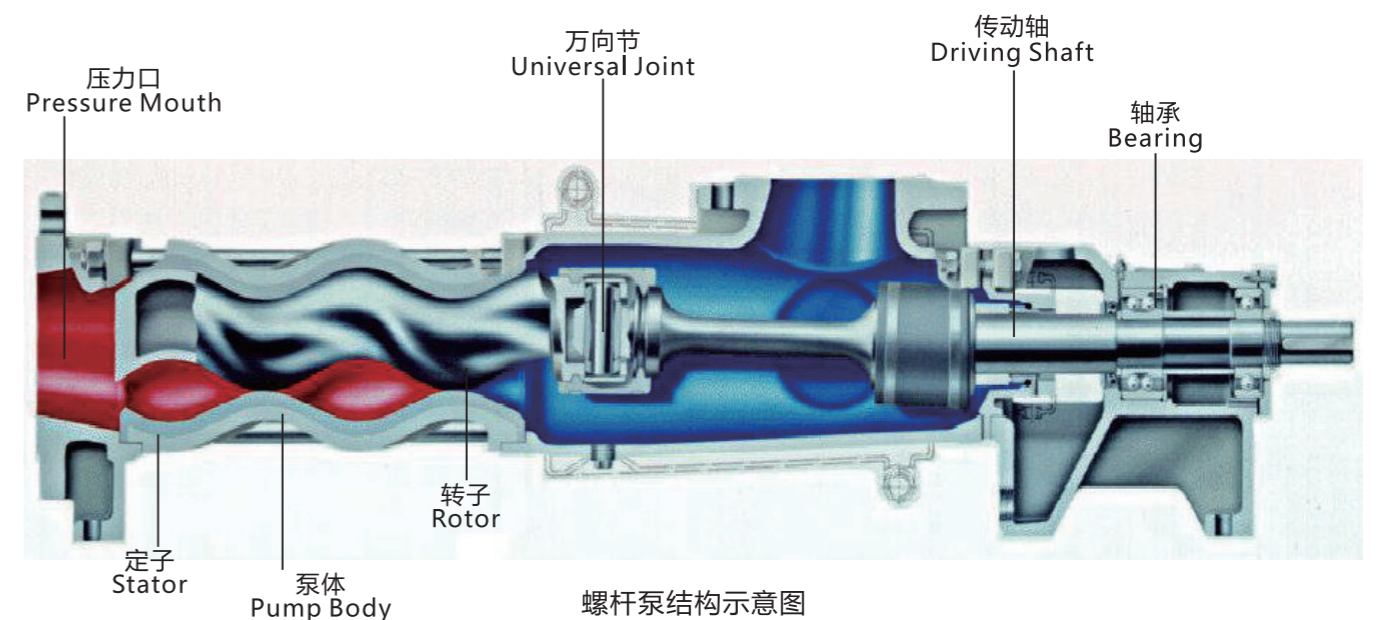
Feeding Medium

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 (1mPas~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

技术参数

Main Parameter

型号 Model	口径 Caliber (mm)	转速 Rotation speed (r/min)	流量 Flow rate (t/h)	功率 Electrical power (kw)	出口压力 Discharge pressure (Mpa)
G10-1	20	1400	0.5	0.37	0.3
G15-1	25	960	1	0.55	
G20-1	32	960	1.5	0.75	
G25-1	32	960	2	1.1	
G30-1	40	960	3	1.5	0.4
G35-1	50	960	5	2.2	
G40-1	50	960	7	3	
	50	720	5.5	2.2	
G45-1	50	960	9	4	0.6
	50	720	7	3	
G50-1	65	960	13	5.5	
	65	720	10	4	
G55-1	76	960	18	7.5	0.6
	76	720	13	5.5	
G60-1	89	960	22	11	
	89	720	17	7.5	
G65-1	80	720	30	11	
G85-1	100	720	60	15	



正弦泵

SINE PUMP

功能原理

任何精品或功能良好的产品均具有简约的构造--又包括少数组件.....正弦泵亦不例外。

叶轮的正弦波造型意味着每次转动均可形成一个腔室(每次经过衬套空间时可发生4次)。通过该运动,可“推动”或“排放”流动产品。控制刮板将泵腔分为吸入腔室和排出腔室,保证进出口的压差。同时,控制刮板也发挥着另一项重要作用,即通过产品对泵轴承进行强制润滑。

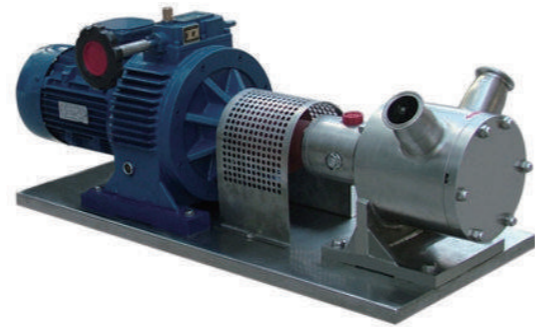
正弦泵-效率卓越,是高粘度,超低剪切输送的最佳选择。

超低剪切输送即使含有大星固体物质和易碎产品,仍可安全无破坏性输送

高粘度性能达到流动能力的极限,可达4,000,000cps。

无脉冲,平稳输送精确调节流动容积,无干扰震动,装料机可均匀供应稳定产品量。

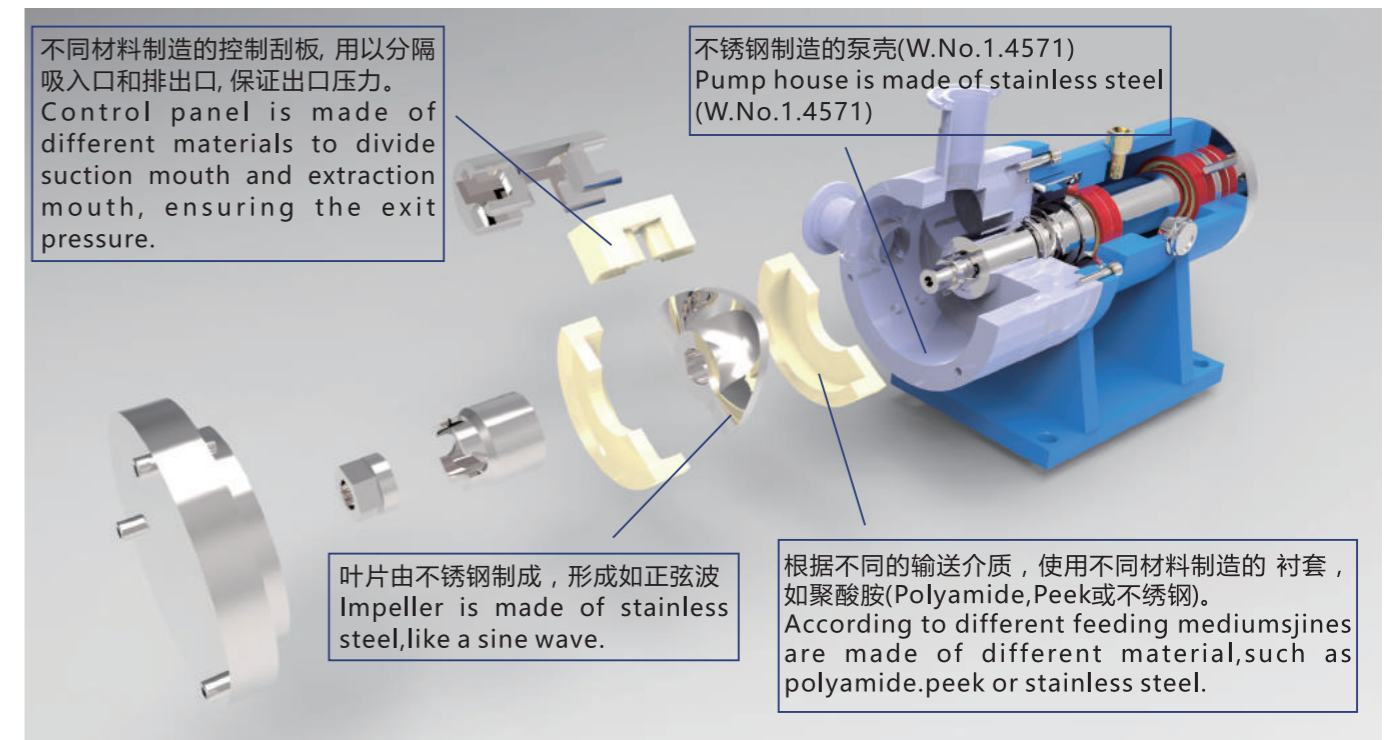
正弦泵:不使用转子、行星齿轮、活塞等装置,而是采用了特殊制造的叶片,叶片形状如两条正弦波曲线。同时与一个活动刮板和一个固定衬套共同动作。构成一种特殊形式的容积泵。这样可实现流体的超低剪切,无脉冲输送。即使在10bar的背压条件下(输送水),压力计上亦不显示任何移动。



正弦泵技术参数

Main parameter of sine pump

型号 Model	每转排量 Displacement per rotation (L)	进出口径 Diameter of inlet and outlet inch	进出口径 mm	调速范围 Range of RPM (r/min)	对应流量 Rang of flow rate (L/H)	电机功率 Electrical power Kw	HP
HSPS-1	0.06	1	25	50-1000	180-3600	1.5	2
HSPS-2	0.11	2	51	50-1000	330-6600	2.2	3
HSPS-2.5	0.28	2.5	63	50-600	840-11800	3	4
HSPS-3	0.45	3	76	50-600	1350-16200	4	5
HSPS-3.5	0.75	3.5	89	50-600	2250-27000	5.5	7
HSPS-4	1.05	4	102	50-600	3150-37800	7.5	10
HSPS-6	2.5	6	152	50-600	7500-30000	15	20



Function Principle

Any exquisite product or good functional product has a simple configuration--including few components...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

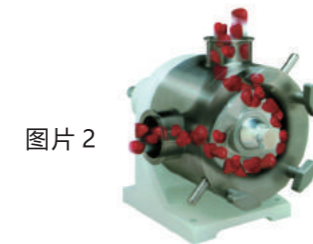
High viscosity performance reaches the limit of flowing capability Can reach 4,000,000cps.

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, without pulse feeding, although in condition of 10bar back pressure (water feeding), there won't be any movement on pressure gauge.



图片 1



图片 2

截面图 Principle



图片 3

HAVP平叶泵

HAVP MODEL FLAT VANE PUMP

概述

原理是由特殊的平板做叶轮，利用物理自身粘性带动和平叶轮特殊的结构使介质形成层流把流体介质从进口拉入推出出口。HAVP型离心式平叶泵是依靠物理自身粘性带动和介质形成层流而将流体介质输送。所以介质在泵内无冲击条状流动，接触叶轮与管壁的流层相对与叶轮静止不动同步运动无摩擦，在无介质冲击性的来破坏你的产品，有可以保护泵的层流，所以平叶泵(无堵塞泵)可以从根本上解决产品的破坏，介质对叶轮与泵体的的磨损，堵塞叶轮，产生气蚀等泵常见弊病。平叶泵的特殊功能使泵能在苛刻的条件下应用更可靠，更优越，更经济，更有效率。同时最重要的是不破坏介质的产品。适合输送不同粘度的介质及高粘度的介质。含颗粒及需保护颗粒不受破坏的介质。需要柔和输送不宜受离心高速冲击的介质。

使用范围：适合输送不同粘度的介质及高粘度的介质，含固体颗粒高达75%(根据要求可设计输送30-80MM颗粒)及需保护颗粒不受破坏的介质，含有气体或空气含量可高达68%的介质，含各种纤维的棉浆，木纸浆，黑要柔和输送不宜受离心离速冲击的介质及污水垃圾等。

优特点:平叶泵的特殊功能使泵能苛刻的条件下应用更可靠，更优越,更经济,更有效率，同时菝里要的是不破坏介质即便是易碎的血细胞，通过平叶泵(无堵塞泵)也不会破坏，而且输送颗粒，长纤维及渣滓也无缠绕，无堵塞。平叶泵输送纸浆时是无冲击通过，保证流体的均一性.而不会产生脱水现象，无任何纤维损失，平叶泵的机机械优点为无冲击，无脉冲，无径向负载，无磨损所以平叶泵根本不需要太多的零部件更换和维修。

广泛应用于是制药、生物工程、化工污水、葡萄酒、淀粉、造纸及食品等行业。该泵 性能优良，结构合理，使用可靠。

Summary

The principle is that the special flat board is adopted as the vane, through the physical viscosity 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. HAVP model 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. The special functions of flat vane pump enable the pump to work under severe conditions more reliably, more excellently, more economically and more efficiently. Most important of all, it will not damage the medium. 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. Application range: it is applicable for transporting media of different viscosity, media of high viscosity, media with solid particles of more than 75% according to the requirement. It can be designed to transport particles of 30-80mm, media requiring that the particles should be protected from being damaged, media with gas or air of more than 68%. cotton pulp and wood pulp containing various fibers, media requiring soft transportation and not be easily impacted by high speed centrifugal impact, as well as sewage waste etc. Advantages: the special functions of flat vane pump enable the pump to work under severe conditions more reliably, more excellently, more economically and more efficiently. Most important of all, it will not damage the medium. Even the crispy blood cells will not be damaged when transported by flat vane pump. There is no winding or blocking when transporting particles, long fibers and sediments. When it is transported by the flat vane pump, the paper pulp can pass without impact so as to guarantee the equality of fluid. There is no occurrence of dehydration and loss of fiber. The flat vane pump has such advantages as no impact, no pulse, no radial load and no abrasion. Therefore, the parts of flat vane pump do not need too much replacement and repair.

It is widely applied in pharmacy, biological engineering, chemical sewage, wine, starch, paper&pulp, food etc Industries. The pump has excellent performance, reasonable structure and reliable use.



示列图一



示列图二

工作原理

原理是由特殊的平板做叶轮，利用物理自身粘性带动和平叶轮特殊的结构使介质形成层流把流体介质从进口拉入推出出口。HAVP型离心式平叶泵是依靠物理自身粘性带动和介质形成层流而将流体介质输送。所以介质在泵内无冲击条状流动，接触叶轮的与管壁的流层相对与叶轮静止不动同步运动无摩擦，在无介质冲击性的来破坏你的产品，有可以保护泵的层流，所以平叶泵(无堵塞泵)可以从根本上解决产品的破坏，介质对叶轮与泵体的的磨损，堵塞叶轮，产生气蚀等泵常见弊病。平叶泵的特殊功能使泵能在苛刻的条件下应用更可靠，更优越，更经济，更有效率。同时最重要的是不破坏介质的产品。适合输送不同粘度的介质及高粘度的介质。含颗粒及需保护颗粒不受破坏的介质。需要柔和输送不宜受离心高速冲击的介质。

Operating Principle

The principle is that the special flat board is adopted as the vane, through the physical viscosity 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. HAVP model 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. The special functions of flat vane pump enable the pump to work under severe conditions more reliably, more excellently, more economically and more efficiently. Most important of all, it will not damage the medium. 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

参数型号	流量 (t/h)	扬程 (m)	功率 (kw)	转速 (r/min)
HAVP20-20-120	2	8	0.55	20
HAVP32-25-150	5	20	1.1	25
HAVP50-32-160	8	24	2.2	32
HAVP50-40-160	10	24	3	40
HAVP50-40-200	10	35	4	40
HAVP50-40-200S	8	12	1.1	40
HAVP65-50-160	25	25	4	50
HAVP65-50-200	25	35	5.5	50
HAVP65-50-250	25	50	7.5	50
HAVP65-50-200S	20	12	2.2	50
HAVP65-50-250S	20	20	3	50
HAVP80-65-200	50	35	11	65
HAVP80-65-250	50	50	18.5	65
HAVP80-65-250S	40	20	4	65
HAVP80-65-300S	40	32	5.5	65
HAVP100-80-200	80	35	15	80
HAVP100-80-250	80	50	22	80
HAVP100-80-250S	70	20	7.5	80
HAVP100-80-300S	70	32	11	80
HAVP150-100-250S	100	20	11	100
HAVP150-100-300S	100	32	15	100
HAVP150-100-300S	100	55	22	100
HAVP200-150-250S	180	18	15	150
HAVP200-150-300S	200	30	30	150
HAVP200-150-400S	200	45	45	150
HAVP250-200-250S	400	18	30	200
HAVP250-200-300S	400	30	55	200
HAVP250-200-400S	400	48	75	200

平叶泵

FLAT VANE PUMP

许多泵应用场合工况苛刻如：介质含有固体颗粒、粘性大、含有气体、具有很强的磨损性、腐蚀性等，对泵具有强烈的破坏性和泵性能严重退化。我们公司研究出一种超一流的平叶泵，这种平叶泵可以奇迹般地降低泵的磨损，介质对泵腔无冲击，同时介质不被破坏。

无需严格的公差配合

卫生级平叶泵，平叶泵不是离心泵、位移泵、或者叶片泵。结构独特，是传统卫生泵的性能和对付苛刻工况性能的泵技术的最佳结合。

无径向负载

平叶泵使用最新的专利技术，这种技术在其它任何一种泵上均无使用记录。平叶泵充分利用了边界流层和粘性施动的自然力。

无冲击

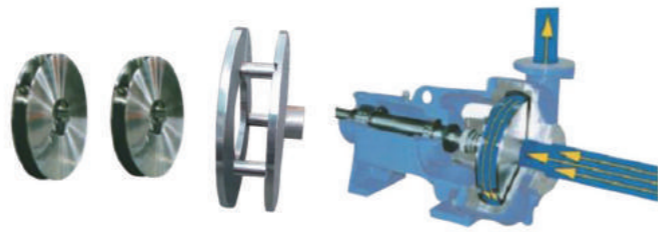
边界流层，就是流体分子汇集的边界，随若平叶旋转。这创造出一种可以把泵腔各流体分离开的自然的和保护性缓冲区。

无脉动

通过粘性拖动，液体平滑经过泵腔而没有撞击现象发生。边界层过量的流体分子吸收和拖动平行流体中。

片状流动平滑

这是粘性拖动的基本原理，平叶泵(无堵塞泵)能够把流体介质通过平叶平滑地成片状地拉出平叶进入到出口，无涡流和抖动现象发生。平叶泵的非冲击和片状流动类似流体直接通过一根管道。靠近管壁的流层相对于平叶来说是静止不动的，这样就产生保护的边办层。粘性拖动把层流托进片状平滑的流程中去。没有冲击性的部件来破坏您的产品，边界层可以保护泵，平叶泵最大程度地从根本上消除阻塞、气蚀、过度磨损、产品介质破坏等所有影响泵性能的现象。平叶泵在苛刻应用上更可靠、更有效率，也更经济，使用寿命长，维护少，同时最重要的是不破坏介质产品。



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 excel-lent 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.

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.

Smooth sheet flow

It is the basic principle of viscous polling. The flat vane pump can smoothly pull the fluid medium out of the flat vane to the outlet in sheet form without the occurrence of eddy current and shaking flow.

The non-impact and sheet flow of flat vane pump is similar to the situation of direct passing through a pipe of fluid. The flow layer that is close to the tube wall is static in relation to the flat vane, and thus, the protective boundary layer is produced. The viscous pulling can smoothly pull the laminar flow into the flow in sheet form.

No impacting parts will damage you product. The boundary layer can protect the pump. The flat vane pump can absolutely eliminate the occurrence of blocking, cavitation, excessive abrasion, damage of product and medium etc. to the maximum extent. Under severe applications, the flat vane pump is more reliable, more efficient more economical with longer service life and fewer maintenance, and most important of all, the medium and product will not be damaged.

卫生级磁力泵

SANITARY MAGNETIC PUMP



卫生级磁力泵示例图一

产品说明

卫生级磁力泵(离心式)--主要是为了制药、生物工程及食品等行业进行GMP改造而设计的，除传统的质里外完全解决轴封的泄漏与磨损问题，卫生级磁力泵性能优良，结构合理，体积小，使用可靠。卫生级磁力泵适用于输送不含固体颗粒的洁净液体物料及纯水等医药产品及饮料、酒类。

Product Description

Sanitary Magnetic pump(centrifugal)- mainly to the pharmaceutical, biotechnology and food industries of GMP and design, in addition to completely solve the traditional quality seal leakage and wear problems, and sanitary magnetic pump performance, reasonable structure, small size, reliable. Sanitary magnetic pump for conveying solid particles of clean water and other liquid materials and pharmaceutical products and beverages, alcohol.

卫生级磁力泵优缺点

- 1、用焊接隔离套静态死封密取代动态机械密封，完全解决动态机械密封泄露问题。
- 2、结构简单，易拆卸，易清洗，无死角。

Sanitary excellent magnetic 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.



卫生级磁力泵示例图二



卫生级磁力泵适用范围

液体、药液、酒精、白酒、酒等液体输送，广泛用于药品、化妆品、化工及饮料领域等

Sanitary magnetic pump Scope

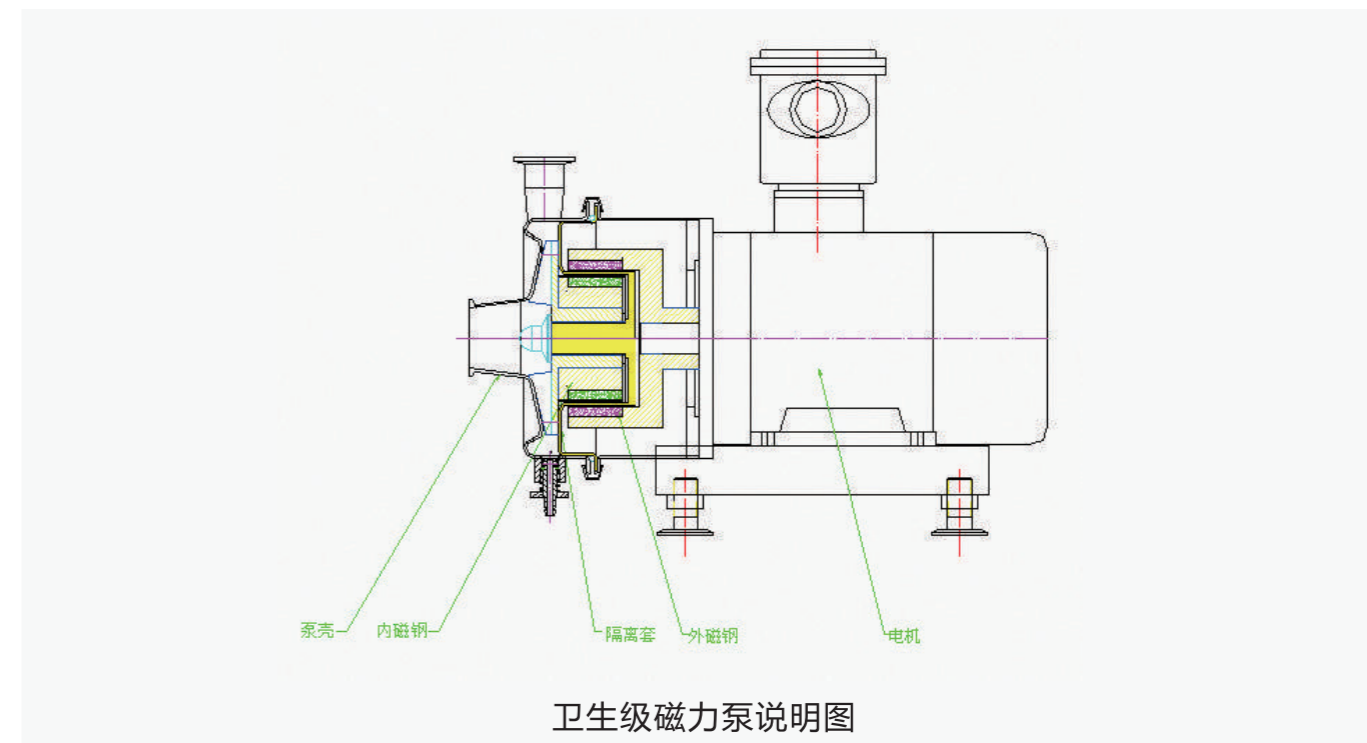
Liquid, liquid, alcohol, liquor, beer and other liquid delivery, widely used in pharmaceuticals, cosmetics, chemicals and beverage fields.

工作原理

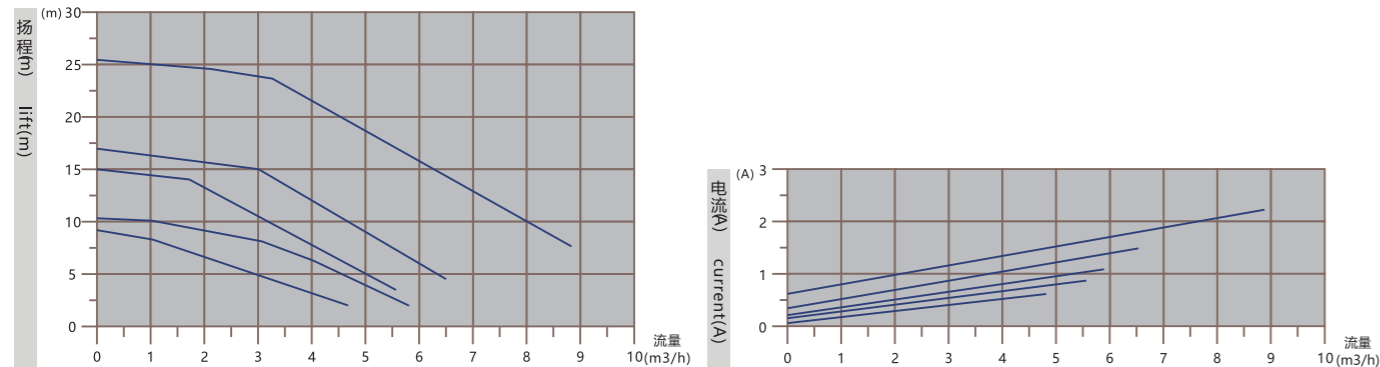
卫生磁力离心式泵接触物料部分全部采用316LN304材料制造通过电机上永磁联轴器的工作原理来驱动叶轮运转而工作。用焊接隔离套静态死密封取代动态机械密封，卫生级磁力泵彻底解决了机械密封无法避免的跑、冒、滴之弊病。密封圈为硅橡胶、氟橡胶，叶轮分为半开式、封闭式，易清洗无死角，符合(制药企业质量管理规范)GMP的相关规定。广泛应用于化工、制药石油电镀食品等行业输送酸、碱、油、稀有贵重液、毒液、挥发性液体；卫生级磁力泵特别是易燃、易爆、易漏的液体输送。另外还在环保、水处理等行业广泛应用。

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 ills. Ring of silicone rubber, fluorine rubber, divided into semi-open impeller, closed, easy to dean 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.



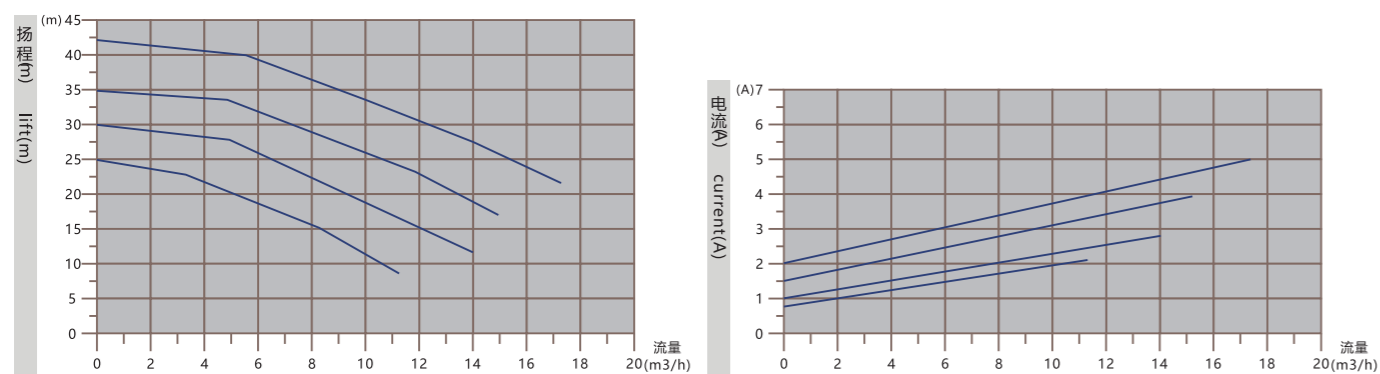
HAMP1.3型技术数据及性能曲线表
Model HAMP1.3 technical data and performance curve chart



- 工况：
1、介质：20T清水
2、进水压力：常压
- 说明：
1、选型时要选曲线中间段为宜。
2、介质特殊时需将介质浓度，温度，特性供给我厂

型号	功率 (KW)	满载电流 (A)	电压 (V)	进口口径	出口口径
HCLP1-100	0.37	0.95	380	Φ25 DN20	Φ25 DN20
HCLP1-120	0.55	1.33	380	Φ25 DN20	Φ25 DN20
HCLP3-110	0.55	1.33	380	Φ38 DN32	Φ25 DN20
HCLP3-120	0.75	1.83	380	Φ38 DN32	Φ25 DN20
HCLP3-140	1.1	2.6	380	Φ38 DN32	Φ25 DN20

HAMP5型技术数据及性能曲线表
Model HAMP5 technical data and performance curve chart



- 工况：
1、介质：20T清水
2、进水压力：常压
- 说明：
1、选型时要选曲线中间段为宜。
2、介质特殊时需将介质浓度，温度，特性供给我厂

型号	功率 (KW)	满载电流 (A)	电压 (V)	进口口径	出口口径
HAMPP5-140	1.1	2.6	380	Φ50 DN50	Φ328 DN25
HAMPP5-150	1.5	3.5	380	Φ50 DN50	Φ328 DN25
HAMPP5-165	2.2	4.9	380	Φ50 DN50	Φ328 DN25
HAMPP5-180	3.0	6.4	380	Φ50 DN50	Φ328 DN25

卫生级离心泵

CENTRIFUGAL PUMP

特点

本系列卫生离心泵作为一种理想选择优点在于结构简单，拆卸方便、四脚高低可调、防震装置、低噪音、高效率、长时间正常运转及维修便利对物料处理平缓柔和，符合食品卫生要求又保证了产品的原有风味。



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.

应用

主要应用于制药、酒类、食品、化工、饮料等行业的需要少量高压输送的，高压过滤的液体输送。

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 filtering.

技术参数

Main Parameter

型号 Model	流量(m³/h) Flow	扬程(M) Lift	功率(kw) Power	进/出口规格 Inlet/outlet specification	型号 Model	流量(m³/h) Flow	扬程(M) Lift	功率(kw) Power	进/出口规格 Inlet/outlet specification
STP-L	2	14	0.55	38/32	STP-L	20	36	5.5	51/51
STP-L	3	16	0.75	38/32	STP-L	20	55	11	63/51
STP-L	3	24	1.5	38/38	STP-L	25	35	5.5	63/51
STP-L	3	30	2.2	51/38	STP-L	30	24	5.5	63/51
STP-L	4	18	1.1	38/38	STP-L	30	36	7.5	63/51
STP-L	5	24	1.5	38/38	STP-L	40	24	7.5	76/63
STP-L	5	36	3.0	51/38	STP-L	50	24	7.5	76/63
STP-L	10	24	2.2	51/38	STP-L	50	40	11	89/76
STP-L	10	36	3.0	51/51	STP-L	60	24	11	89/76
STP-L	10	50	5.5	51/51	STP-L	60	40	15	89/89
STP-L	10	60	7.5	51/51	STP-L	50	50	15	89/89
STP-L	15	24	3.0	51/51	STP-L	80	50	18.5	102/89
STP-L	20	24	4.0	51/51					

卫生级自吸泵

SELF-PRIMING PUMP

特点

CIP自吸泵，其泵体部分材料，均为耐酸不锈钢制成(AISI316)，耐酸碱腐蚀特性，尤为显著，符合食品卫生要求。

优于离心泵的特性，在于能吸取混有空气或泡沫的液体，甚至能在只有空气时，照样自行抽吸，该泵是容积式泵。广泛用于液位低于泵的吸取物料，如在吸奶间，可将奶自奶桶中吸出，或可在自动CIP清洗系统中，作为清洗缸的回程泵，机械密封为内装内流式，吸取物料的温度不高于100℃。



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℃.

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 Rctation speed (r/min)	功率 Electrical power (kw)
ZXP-10	15	5	3-8	51	1400	1.5
ZXP-20	18	5	10-20	51	1400	4
ZXP-25	24	5	15-25	63	1400	5.5
ZXP-30	28	5	20-30	76	1400	7.5

HAQW 卫生食品级气动隔膜泵

HAQW Health food grade pneumatic diaphragm pump

特点

- 1.卫生级气动隔膜泵过流部件采用304、316 L 达到食品级要求。
- 2.采用精密铸造，表面光滑整洁，并具有更高的强度。
- 3.球阀采用专用机进一步研磨加工，圆整度高，密封性能好。
- 4.精确计算膜片移动距离，降低膜片受力，具有更长的使用寿命。
- 5.四螺栓连接设计，密封性能好，实际干吸可达0-4米。
- 6.三段式上下盖，安装灵活方便。
- 7.一体式设计的膜片护块，具有优异的耐压，耐高温性能，广泛应用于压滤机行业。
- 8.膜片连杆采用耐磨不锈钢，具有更好的耐腐蚀性，更长的寿命。

主要用途

- 1.食品：盐水、巧克力、醋、糖浆、植物油、豆油、蜂蜜、猫狗食、动物血；
- 2.药品：植物萃取液、片状物、药膏、酒精、过滤辅助物、超过滤、血浆、废溶剂；
- 3.饮料：发酵、槽渣、热果浆、蛇麻子液、糖浆、浓缩物、气液混合、酒、果汁、果酱、玉米浆、牛奶、汽水、可口可乐；
- 4.日化：洗涤剂、雪花膏、洗发水、乳胶、洗手膏、表面活性剂、发胶、肥皂；
- 5.酒类：白酒、红酒、洋酒、保健酒、黄酒、啤酒、葡萄酒、米酒、药酒。

Main Use

- 1.Food : salt water, chocolate, vinega, syrup , vegetable oil , soybean oil , honey , cat dog food , animal blood ;
- 2.Drugs : plant extracts, flakes, creams, alcohol , filter aids , ultra filtration , plasma , waste solvent ;
- 3.Drink : fermentation , fruit pulp , hot tank slag , hops , syrup, liquid concentrate , gas-liquid mixing , wine , fruit juice , jam , corn syrup, milk , soda , Coca-Cala ;
- 4.Cosmetic : detergent , shampoo , cream , latex, washing paste , surfactant , hair gel , saap ;
- 5.Wine : win, win, wine , win beer, Yellow wine , Wine , rice wine , wine .

技术参数

Main Parameter

型号 Model	进出口径 Import and export (mm)	流量(m³/h) Flow	扬程(M) Lift	吸程(M) Suction	最大允许通过颗粒Φ(mm) Maximum allowable particle	最大供气压 (kgf/cm²) Maximum gas pressure
HAQW-19	19	1.5	50	0-4	2	2-7
HAQW-25	25	2.4	50	0-4	2.5	2-7
HAQW-32	32	6	50	0-5	3.2	2-7
HAQW-38	38	8	50	0-5	4.5	2-7
HAQW-51	51	12	50	0-6	8	2-7
HAQW-63	63	16	50	0-6	8	2-7
HAQW-76	76	24	50	0-7	10	2-7
HAQW-89	89	30	50	0-7	10	2-7
HAQW-108	08	50	50	0-7	12	2-7

Features

- 1.The health class pneumatic diaphragm pump flow components using 304, 316L to achieve food grade requirements.
- 2.The use of precision casting, the surface smooth and clean, and has a higher strength.
- 3.Ball valve using special machine further grinding processing, round the whole degreeishigh, these alingper formance is good.
- 4.Accurate calculation of the diaphragm moving distance, reduce the diaphragm force, with alonger life expectancy.
- 5.Four bolt connection design, good sealing performance, the actual dry suctionup to 0-4 meters.
- 6.Three sections of the upper and lower covers, flexible and convenient installation.
- 7.One diaphragm design block, has excellent pressure resistance, high temperature performance, widely used in filter press industry.
- 8.The diaphragm connecting rod with wear-resistant stainless steel, with better corrosion resistance, longer life.



高剪切分散乳化机(间歇式)

DRH HIGH SHEAR DISPERSING EMULSIFIER(INTERMITTENT)

工作原理

高剪切分散乳化机就是高效、快速、均匀地将一个相或多个相分布到另一个连续相中。而在通常情况下各个相是互相不溶的。由于转子高速旋转所产生的高切线速度和高频机械效应带来的强劲动能，使物料在定、转子狭窄的间隙中受到强烈的机械及液力剪切、离心挤压、液层摩擦、撞击撕裂和湍流等综合作用从而使不相溶的固相、液相、气相在相应成熟工艺和适置添加剂的共同作用下，瞬间均匀精细地分散乳化,经过高频的循环往复，最终得到稳定的高品质产品。

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 slot among stator and rotor receives strong forces from mechanical and liquid shearing, centrifugal force, pressing, liquid friction, clashing tearing and rush water. The dissolvable solid liquid 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.

技术参数

Main Parameter

型号	功率 (kw)	转速 (r/min)	处理量 (l)
DRH80	1.5	2900	5-50
DRH100	2.2	2900	50-100
DRH120	4	2900	100-300
DRH140	5.5	2900	200-800
DRH160	11	2900	300-1000
	15	2900	
DRH180	18.5	2900	500-1500
DRH200	22	1450	800-2000
DRH220	30	1450	1000-3000
DRH240	37	1450	1500-5000
DRH270	55	1450	2000-8000
DRH290	75	1450	3000-10000

表中流量范围是指介质为“水”时测定的数据。如介质粘度或稠度较高，建议与管线式高剪切分散乳化机配合使用。如有高温、高压易燃、易爆、腐蚀性等工况，必须明确提供相关准确的参数，以便正确选型定制。本表数据如有更改，恕不另行通知，正确参数以提供的实物为准。

The flow in the table refers to the data tested taking water as the medium. If the medium has high viscosity or consistency, please use pipeline high shear dispersing emulsifier. If there is high temperature, high pressure, flammable, explosive or corrosive condition, The data in the table is subject to change without notice. See the actual products for the right data.

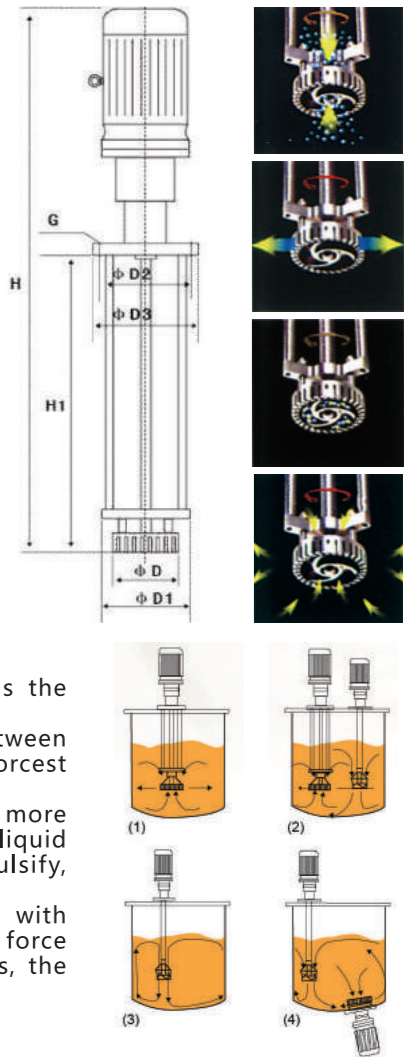


间歇式高剪切工作过程

在高速旋转的转子产生的离心力作用下，图中的物料从工作头的上下进料区域同时从轴向吸入工作腔。强劲的离心力将物料从径向甩入定、转子之间狭窄精密的间隙中。同时受到离心挤压、撞击等作用力，使物料初步分散乳化。在高速旋转的转子外端产生至少15m/s以上的线速度，最高可至40m/s,并形成强烈的机械及液力剪切、液层摩擦、撞击撕裂。使物料充分的分散、乳化、均质、破碎、同时通过定子槽射出。物料不断高速地从径向射出，在物料本身和容器壁的阻力下改变流向，与此同时在转子区产生的上、下轴向抽吸力的作用下，又形成上、下两股强烈的翻动湍流。物料经过数次循环，最终完成分散、乳化、均质过程。

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 material then receives centrifugal press, clash and other force which firstly disperse and emulsify the material. 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 finally dispersed and emulsified evenly.



外形尺寸 Shape Size

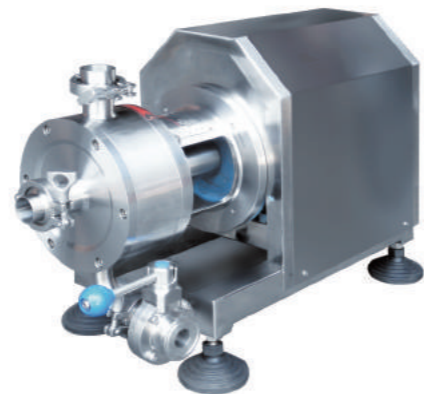
型号	D	D1	D2	D3	H1	H	G
DRH80	105	105	200	105	550	705	8xΦ16
DRH100	116	160	215	260	650	1150	8xΦ16
DRH120	141	195	255	260	725	1300	8xΦ16
DRH140	156	235	280	330	850	1520	8xΦ16
DRH160	184	235	280	330	850	1655	8xΦ20
DRH180	200	280	360	415	1200	2070	8xΦ20
DRH200	240	300	360	415	1200	2130	8xΦ20
DRH220	260	320	400	450	1355	2525	8xΦ20
DRH240	280	340	400	450	1395	2585	8xΦ20
DRH270	330	380	500	550	1650	2995	8xΦ20
DRH290	350	400	500	550	1660	3050	12xΦ20

管线式高剪切乳化机

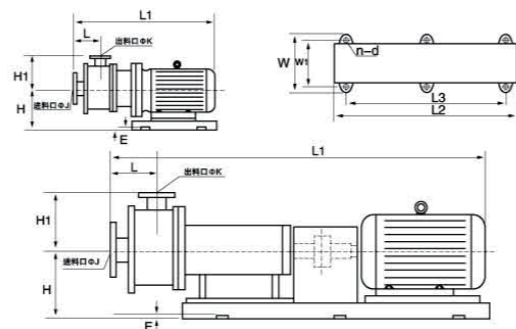
PIPELINE HIGH SHEAR EMULSIFIER

工作原理

管线高剪切乳化机是用于连续生产或循环处理精细物料的高性能设备，在狭窄空间的腔体内，装有1-3组对偶咬合的多层定、转子。转子在马达的驱动下高速旋转产生强劲的轴向吸力将物料吸入腔体。在最短的时间内对物料进行分散、剪切、乳化处理，粒径分布范围也显著变窄。由此可制得精细的长期稳定的产品。



固定式型乳化泵
Fixed emulsion pump



Operation Principle

Pipeline high shear 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.

外形尺寸 Shape Size

型号 Model	L	L1	H1	H	E	L2	L3	W	W1	J DN	K DN	L1	n-d
DRL1-80	90	575	150	180	20	300	220	280	250	40	32	298	4-Φ14
DRL1-100	90	575	150	180	20	300	220	280	250	40	32	298	4-Φ14
DRL1-120	110	620	165	200	22	350	260	330	300	40	32	320	4-Φ14
DRL1-140	137	743	182	224	25	400	320	375	346	50	40	357	4-Φ14
DRL1-165	137	743	182	224	25	400	320	375	346	50	40	357	4-Φ14
DRL1-180	124	864	190	250	25	480	405	420	380	65	50	406	4-Φ14
DRL1-185	124	916	190	250	25	480	405	420	380	65	50	406	4-Φ20
DRL1-200	124	966	190	270	15	550	475	450	410	65	50	406	4-Φ20
DRL1-210	150	1400	230	300	15	1300	1220	550	480	80	65	250	4-Φ20
DRL1-230	150	1485	240	325	15	1500	1220	590	520	100	80	260	4-Φ20
DRL1-245	150	1800	250	350	15	1500	1420	660	580	100	80	280	4-Φ20
DRL1-260	150	2920	260	380	15	1500	1420	720	640	125	100	340	4-Φ20
DRL1-275	150	2050	270	380	15	1500	1420	720	640	125	100	350	4-Φ20
DRL1-280	150	2050	270	380	15	1500	1420	720	640	125	100	350	4-Φ20

管线式高剪切乳化机的优点

- 1.处理量大，适合工业化在线连续生产
- 2.粒径分布范围窄，匀度高
- 3.省时、高效、节约能耗
- 4.噪音低，运转平稳 消除批次间生产的品质差异
- 5.无死角，物料100%通过分散剪切
- 6.具有短距离，低扬程输送功能
- 7.使用简单,维修方便可实现自动化控制

Advantages Of Pipeline High Shear Emulsifier

- 1.Mass production suitable for continuous production of industrialized assembly line
- 2.Small diameter range, and highly even
- 3.Time saving, highly efficient and energy saving
- 4.Low noise, stable operation
- 5.Reduced quality difference between lots
- 6.Material is fully dispersed and sheared
- 7.Daliver in short distance with low lift



粗齿:
撞击、破碎、剪切、溶解、粗分散

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



中齿:
分散、细化、加速溶解、乳化

Middle teeth:
disperse, refine, solutize, emulsify



细齿:
超细分散、加强乳化、均质、浆化

Fine teeth:
superfine disperse, emulsify, homogenize, pulpify

技术参数

Main Parameter

型号 Model	功率(kw) power	转速(r/min) Rctation speed	流量范围(m³/h) Capacity
DRL1-80	1.5	2900	0-1.5
DRL1-100	2.2	2900	0-3
DRL1-120	4	2900	0-4
DRL1-140	5.5	2900	0-5
DRL1-165	7.5	2900	0-8
DRL1-180	11	2900	0-12
DRL1-185	15	2900	0-18
DRL1-200	22	2900	0-25
DRL1-210	30	2900	0-35
DRL1-230	45	2900	0-50
DRL1-245	55	2900	0-75
DRL1-260	75	2900	0-90
DRL1-275	90	2900	0-110
DRL1-280	132	2900	0-130

注：表中流量范围是指介质为“水”时测定的数据，表中所示型号的出口压力≤0.2Mpa。

如采用循环工艺，建议与间歇式高剪切分散乳化机配合使用。如有高温、高压 易燃、易爆、腐蚀性等工况。必须明确提供相关准确的参数，以便正确选型定制。对流动性较差的介质，建议在入口处用流量相匹配的泵输送，泵入的压力≤0.2Mpa。

本表数据如有更改，恕不另行通知，正确参数以提供的实物为准。

Note : the flow in the table refers to the data tested taking water as the medium, outlet pressure of the listed type≤0.2Mpa

If circulated procedure is adopted, Intermittent high shear emulsifier is recommended.

If there is high temperature, high pressure, flammable, explosive or corrosive condition, correct data should be provided by customers in order to customize the right product type.

For mediums that flow slowly, pumps of matched flow rate should be equipped in the inlet the pressure of pump≤0.2Mpa.

The data in the table is subject to change without notice. See the actual products for the right data.

管线式高剪切分散乳化机

PIPELINE HIGH SHEAR DISPERSING EMULSIFIER

工作原理

工作腔内装有三组定、转子，工作腔内传动轴采用悬吊式，弹性联轴器将电机与轴承箱内的主轴联接，提高传动轴的运行质*，密封形式根据不同的工况来选择。适用于中、大批量在线连续生产或循环处理生产工艺。

Operation Principle

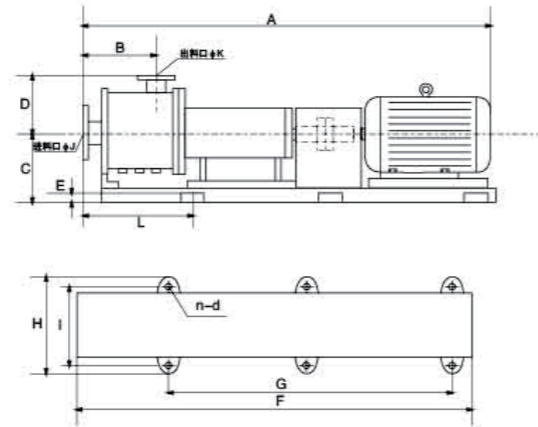
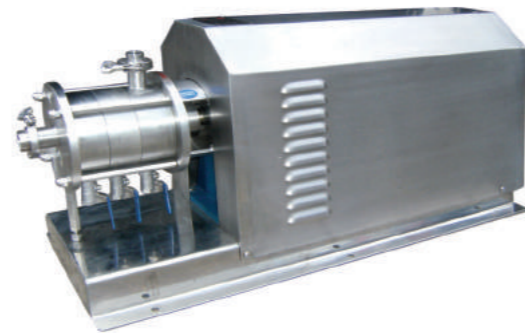
Three sets of stators and rotors are equipped in working cavity. Driving shaft in working cavity is an arm, electrical motor and the shaft in bearing cabinet can be connected by spring coupling to improve the operation quality of driving shaft. Seal form can be selected in different conditions. It is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

动力学原理

- 1.产品轴向进入壳体。
- 2.通过第一、二或三套有齿转子/定子，泵送单液相或多液相及悬浮颗粒。
- 3.不论产品性能如何，均会对所有液体组分平等施加可控的、高强度的剪切力。
- 4.剪切率为常量，大小仅取决于所选转子/定子齿及转子端速。

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.

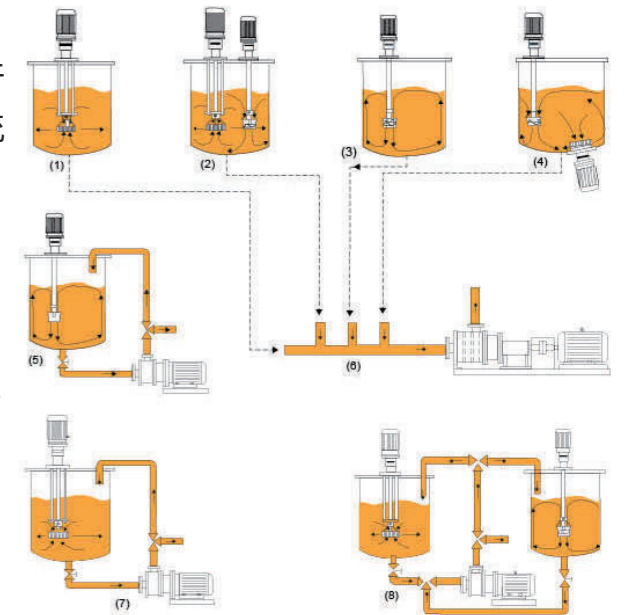


优化组合使系统达到最佳状态

对于各种流程工艺，有不同形式的设备来匹配，并进行优化组合，使系统达到最佳状态。常见工艺流程如下：

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:



技术参数

Main Parameter

型号 Model	功率(kw) power	转速(r/min) Rctation speed	A	B	C	D	E	F	G	H	I	J DN	K DN	L 流量范围(m³/h) Capacity	n-d	
DRL3-60	4	2900	950	200	180	100	8	900	700	380	320	38	32	150	0-1.5	4-Φ16
DRL3-100	5.5	2900	1070	230	232	155	10	1000	800	450	390	50	40	150	0-3	4-Φ20
DRL3-120	7.5	2900	1315	245	260	170	12	1250	1050	505	445	65	50	150	0-4	4-Φ20
DRL3-140	11	2900	1370	260	260	185	12	1300	1100	505	445	65	50	150	0-5	4-Φ20
DRL3-160	18.5	2900	1430	300	280	220	15	1350	1150	550	480	65	50	155	0-8	4-Φ20
DRL3-180	22	2900	1870	300	300	242	15	1800	1500	590	520	100	80	160	0-12	4-Φ20
DRL3-190	30	2900	1980	305	350	280	15	1900	1700	710	630	125	100	165	0-18	4-Φ24
DRL3-200	45	2900	2100	305	380	300	15	2000	1800	785	705	125	100	165	0-25	4-Φ24
DRL3-210	55	1470	2160	325	380	310	15	2050	1850	785	705	125	100	170	0-35	4-Φ24
DRL3-230	75	1470	2370	325	415	320	15	2250	2050	900	810	150	125	170	0-50	4-Φ28
DRL3-245	90	1470	2480	325	415	330	20	2350	2150	900	810	150	125	170	0-75	4-Φ28
DRL3-260	110	1470	2595	325	415	340	20	2400	2200	900	810	150	125	175	0-90	4-Φ28
DRL3-275	132	1470	2615	340	415	350	25	2400	2200	900	810	150	125	175	0-110	4-Φ28

注:*表中流量范围是指介质为"水"时测定的数据，表中所列型号的出口压力≤0.2Mpa。
*如有高温、高压、易燃、易爆、腐蚀性等工况，必须明确提供相关的参数，以便正确选型定制。
*对流动性较差的介质，建议在入口处用流量相匹配的泵输送，泵入的压力≤0.2Mpa。
本表数据如有更改，恕不另行通知，正确参数以提供的实物为准。

Notes: *Flow listed on the table refers to the data measured when the medium is water, the exit pressure ≤0.2Mpa of the model listed in the table.
*In condition of high temperature, high pressure, flammability, explosion and erosion, relevant parameters must be provided clearly for selecting customization precisely.
*For poor liquid medium, a pump which has a matching flow is suggested to feed at the inlet, input pressure ≤0.2Mpa.
*if the data in the table is modified, no further notification will be given, and the right parameters as per the provided sample.

吸粉式混合分散乳化机

SUCTION-POWDER MIXING DISPERSING EMULSIFIER

工作原理

DRL-C系统是利用特殊转子的高速旋转产生真空，把粉末均匀地吸入工作腔，并把它均匀地分布在快速流动的液流中，在液流中粉末被瞬间完全湿润，不产生团聚块状物。然后液体和粉末通过一个高剪切定转子结构，以分散任何可能存在的聚块物，最后得到完全湿润和分散均匀的物料。

Operation Principle

HDR-L 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 fulty wet and Yan evenly distributed the materials.

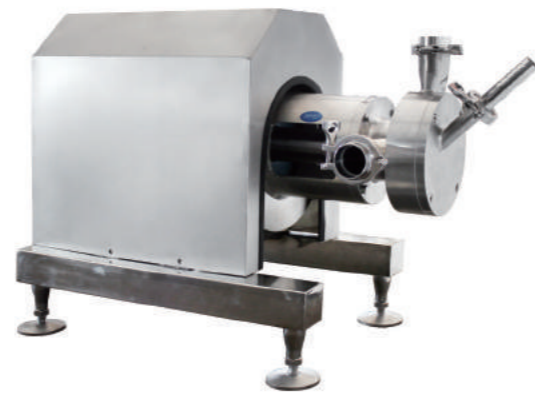
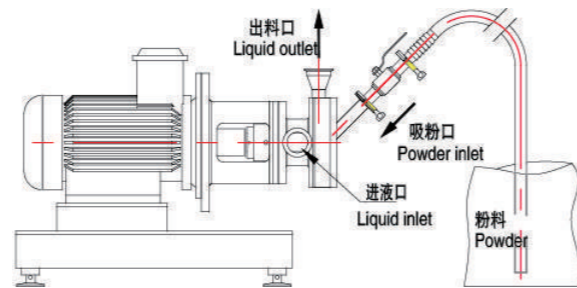
技术参数

Main Parameter

型号	功率 (kw)	转速 (r/min)	流量范围(m³/h) Capacity	出口压力 (Mpa) Outlet pressure
DRL-C-120	7.5	2900	0-10	0.15
DRL-C-140	11/15	2900	0-20	0.20
DRL-C-165	22/30	2900	0-30	0.25
DRL-C-200	37/45	2900	0-50	0.30
DRL-C-260	55/75	2900	0-70	0.40

注：表中流量范围是指介质为“水”时测定的数据。物料的粘稠度及浓度变化使得流量会产生变化，相对功率也产生变化。本系列具有短程送料能力，须选用高位进料，物料黏度或固含量导致不能正常进料和输送时，须选用压力或输送泵送料，输送泵的压力和流量与被选机型相匹配。本表数据如有更改，恕不另行通知，正确参数以提供的实物为准。

Notes:
Flow listed on the table refers to the datas measured when the medium is water.
The flow will be varied with transformation of medium's viscosity and density, electrical power also will be different.
This pump has short delivery head,it should be installed below the medium's level. High viscosity and solid content make the pump can not feed and deliver normally, a feeding pump or pressure pump with matched flow should be adopted.
If the data in the table is modified, no further notification will be given, and the right parameters as per the provided sample.



罐底吸粉式混合分散乳化机

BOTTOM SUCTION-POWDER MIXING DISPERSING EMULSIFIER

工作原理

DRH-D拥有创新型的设计，巧妙的将干粉吸料功能和混合分散乳化功能集合在一台设备上，通过特殊设计的具有吸粉功能的高速旋转的定转子产生真空和混合剪切乳化能力，能够快速将干粉吸入到工作腔里面，并且立即将粉体和液体混合剪切乳化，达到理想的产品效果。该设备不仅大大节约了繁琐的粉料投料工序和生产时间，又避免了工作车间的粉尘污染。该设备广泛适用于食品，药品和化妆品行业，可以安装在各种真空乳化罐的底部。

Operation Principle

tive design, ingenious dry powder suction function and mixed the dispersed emulsion set of features in a device, through a specially designed with a the powder absorption function of high-speed rotation given rotor vacuum mixing shear emulsifying capacity to quickly dry powder inhale inside the working chamber and the powder and liquid are mixed shear emulsification, to achieve the desired product effect. The equipment is not only significant savings in the tedious process and production of the powder feeding time, and avoid a work shop dust pollution. The device is widely used in the food, pharmaceutical and cosmetic industries, and can be installed in the bottom of the vacuum emulsification tank.

应用领域

食品工业：均质浓缩果汁，长纤维饮料，汤料，各种果酱，果汁，土豆泥，芥末糕；
乳品：均质发酵的乳产品：优酸乳，软奶酪，黄油等等；
均质混合乳产品：如冰淇淋，巧克力奶，可可奶，CMC,淀粉，麦精等等；
生物医药工业：组织匀浆，细胞组织肌体粉碎，注射剂，抗生素，药软膏，微胶囊乳化；
化妆品工业：乳化各种面霜，唇膏，液体洗涤剂，洗面奶，护肤品，香波；
化工工业：树脂乳化，表面活性剂，碳黑分散，染料涂料。

技术参数

Main Parameter

型号	功率 (kw)	转速 (r/min)	流量范围(m³/h) Capacity	吸粉量 (kgs/h) Suction powder
DRH-D-120	3/4	2900	0-3	100-500
DRH-D-140	5.5/7.5	2900	0-5	100-800
DRH-D-160	11/15	2900	0-8	100-1000
DRH-D-180	18.5/22	2900	0-12	100-1500
DRH-D-200	30	1450	0-20	100-2000



Application

Food Industry: homogeneous concentrated fruit juice, long fiber drinks, soups, all kinds of jam, fruit juice, potatoes Nigeria, mustard cake;
Dairy: homogeneous fermented dairy products: You yogurt, soft cheese, butter, etc.
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, surfactant, carbon black dispersion; dye coating.



剪切乳化泵

SHEAR-PUMP

工作原理

DRL-H剪切泵实现了从简单的混合到高要求的乳化，分散，溶解和均质。凭借特制的叶轮和诱导轮的设计，能使稳定剂，胶质物，粉末，糖等和液体快速溶解和达到水合作用。

Operation Principle

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

特点

1. DRL-H剪切泵可完美应用于牛奶，糖浆，布丁，酱类制作，冰激凌，糖制品和沙拉酱。此系列泵为搅拌，乳化，分散，溶解和均质而设计。
2. 与传统的搅拌器比较，DRL-H剪切泵因为它特制的叶轮设计，能够快速和高效工作，在时间上节省了90%。
3. 所有与物料接触部分的材质（泵头和料斗）为SS316。
4. 可完全在线清洗（CIP），从而节省了人工清洗而停机时浪费的时间。也避免了因为外部清洗（COP）造成设备损坏的风险。
5. 体积小，重负载，处理量大，符合当前的技术发展水平。处理可高达40m³/hr。

Features

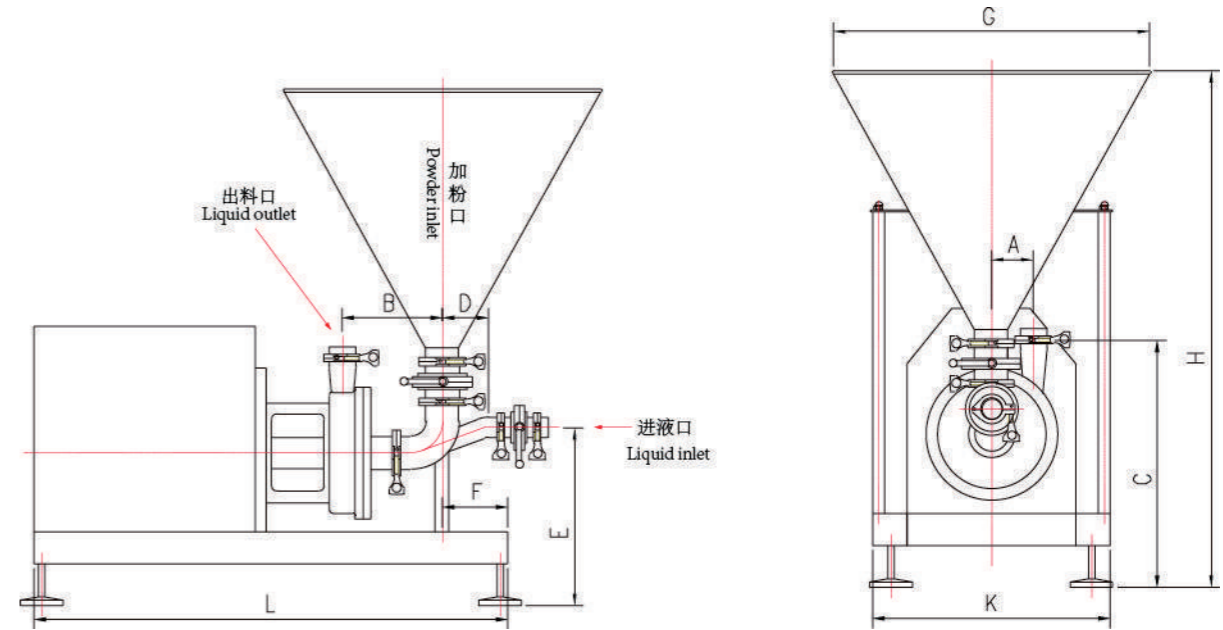
The DRL-H Series blenders are ideally suitable for various applications of skimming milk, formulating, toppings, puddings, making sauces, mixing icecream, blending sugar and dressing salad. Also, DRL-H Series are designed to blend, emulsify, disperse, dissolve and homogenize. Supremely efficient and rapid in operation to shorten processing time by up to 90% when compared to conventional paddies 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 intanse of man hours iDesides the risk of equipment damage from COP. Highest capacity and heaviest duty with compact size being accomplished with siate-of-art technology and know-how. The shear blender can deliver capacities up to 40m³/hr.



具有良好自吸能力的叶轮确保实现物料的乳化和均质。
Impellers with excellent suction capacity ensure that tasks are optimally realised during homogenising and emulsifying



DRL-H带料斗：用于糖、面粉、盐、香料等粉体与液料的混合。
HDR-H with hopper: for mixing sugar, flour, salts, spices, etc. powder with liquid.



优势

- 省时 适用于不同量的批次
- 噪音低操作稳定
- 出口低压力要求的应用
- 易清洗: CIP/SIP或人工维修方便
- 不同的密封材质

Advantages

- 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

技术参数

Main Parameter

型号	标准口径D1xD2/std	电机功率 Range of capacity (kw)	流量范围 Range of capacity (T/H)	电机转速 Rotation speed (r/min)	备注 Remarks
DRL-H-100	2x1.5	3/4	0-5	2900	电机功率将根据物料的粘度和浓度匹配 With different viscosity and density of medium will use different electrical power
DRL-H-130	2.5x2	5.5/7.5	0-10	2900	
DRL-H-160	2.5x2.5	11/15/18.5	0-20	2900	
DRL-H-190	3x2.5	22/30	0-30	2900	
DRL-H-210	3x3	30/37	0-40	2900	

外形尺寸

Outline Dimension

型号 Model	电机功率 Motor/kw	尺寸Dimension										
		A	B	C	D	E	F	G	H	I	G	I
DRL-H-100	3/4	73	172	425	135	320	75	350	600	920	450	3"
DRL-H-130	5.5/7.5	91	175	455	155	405	150	450	890	1100	600	4"
DRL-H-160	11/15/18.5	91	159	495	155	435	200	500	1000	1250	600	4"
DRL-H-190	22/30	114	159	495	185	435	200	500	1000	1250	750	4"
DRL-H-210	30/37	114	159	535	185	435	250	600	1000	1250	750	5"

消泡器

DEFOAMING MACHINE

产品说明

HDP系列全自动机械消泡器，利用离心力来破碎发酵过程产生的泡沫，使气液分离，分离出的泡沫液可以重新回到发酵罐中，减少逃液损失，结合尾气冷凝系统，可以更有效地减少大通气量条件下发酵液损失。

Product Description

HDP Series defoaming equipment, adopt the centrifugal power to break the foam during the fermentative process, separate the liquid and the gas, the foam-liquid separated can be back to the fermented tank, reduce the lose of escaped-liquid. It can be more efficiently reduce the lost of fermented- liquid under the condition of big ventilation when combined with the exhaust condenser system.

工作原理

泡沫通过消泡器进口进入转子的工作区，高速转子提供的剪切力撕碎气泡，气泡释放出的液体立即被离心力摔向器壁，并压缩为液流，部分回流到发酵罐中，部分通过器壁的多孔结构流向涡壳收集器中，由管道返回发酵罐中。

Operation Principle

The foam comes into the rotor, and be broken by high Shear power, the liquid released from the foam falls to the wall by centrifugal power and be compressed as the liquid-flow, some of the liquid flow back to the fermented tank, some flow back to eddy shell collector, and back to the fermented tank through the pipe finally.

应用领域

HDP系列全自动机械消泡器适用于各种发酵过程的消泡，如抗生素发酵过程消泡、氨基酸有机本发酵消泡、酵母培养过程消泡、酿醋过程消泡等。

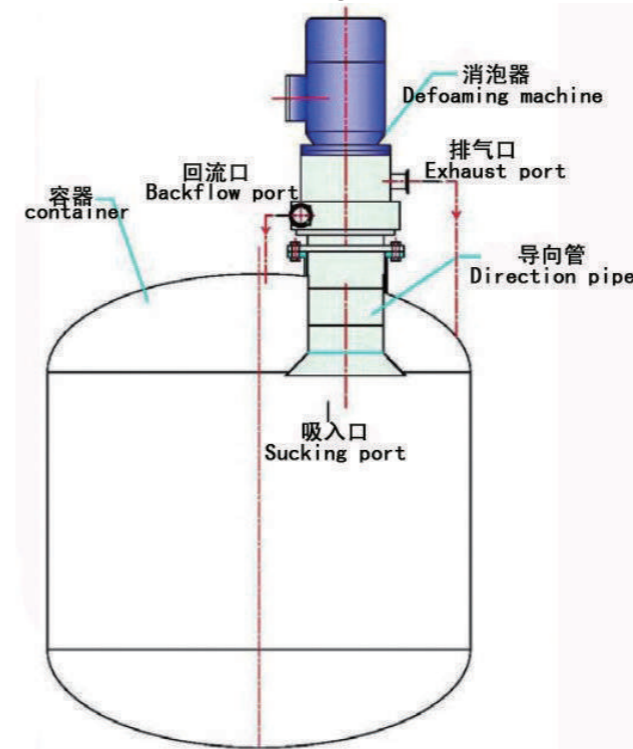
Application

HDP is applied for defoaming during various type of fermentative process. Such as, fermentative process of antibiotics, fermentative process of amino acid organic, fermentative process of Yeast raise, fermentative process of vinegar.



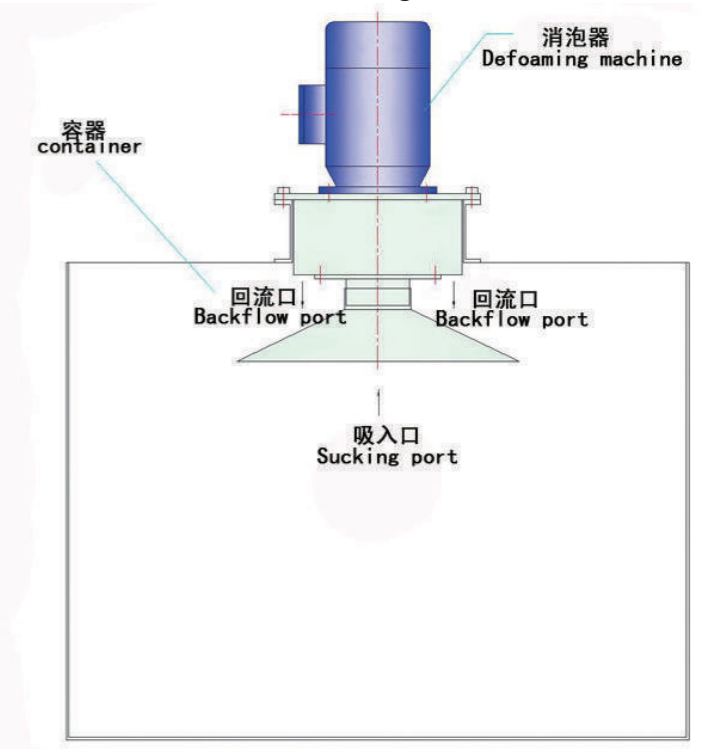
HDP-I 结构示意图

HDP-I Structure drawing



HDP-II 安装示意图

HDP-II Installation drawing



特点

- 1、不使用或极少使用化学消泡剂
- 2、消除化学消泡剂对发酵和下游分离过程的危害，提高发酵罐的装液系数和生化反应的稳定性，减少逃液，减少微生物在泡沫中的停留时间，提高生化反应效率

Features

1. Do not use or rarely use of chemical defoamer, eliminated the harm of chemical defoamer to the fermentation and the downriver separation.
2. Improve the coefficient of liquid-loading and the stability of biochemical reactions, reduce the escaped liquid Reducing the time of Microbial staying in the foam, improve the efficiency of biochemical reactions

技术参数

Main Parameter

型号	消泡量 (m³/h) Defoaming capacity	功率(kw) Power	转速 (r/min)
HDP-I-5-0.37	5	0.37	2800
HDP-I-10-0.75	10	0.75	2800
HDP-I-20-1.1	20	1.1	2820
HDP-I-30-2.2	30	2.2	2840
HDP-I-40-3	40	3	2840
HDP-I-60-4	60	4	2840
HDP-I-80-5.5	80	5.5	2840
HDP-I-100-7.5	100	7.5	2840
HDP-I-150-11	150	11	2900
HDP-I-200-15	200	15	2900
HDP-I-300-22	300	22	2900
HDP-I-500-30	500	30	2900

YXDF-I型适用于全封闭容器
YXDF-I suitable for full-closed tank

技术参数

Main Parameter

型号	消泡量 (m³/h) Defoaming capacity	功率(kw) Power	转速 (r/min)
HDP-II-5-0.37	5	0.37	2800
HDP-II-10-0.75	10	0.75	2800
HDP-II-20-1.1	20	1.1	2820
HDP-II-30-2.2	30	2.2	2840
HDP-II-40-3	40	3	2840
HDP-II-60-4	60	4	2840
HDP-II-80-5.5	80	5.5	2840
HDP-II-100-7.5	100	7.5	2840
HDP-II-150-11	150	11	2900
HDP-II-200-15	200	15	2900
HDP-II-300-22	300	22	2900
HDP-II-500-30	500	30	2900

下磁力搅拌器

Model Bottom Magnetic Mi

产品说明：

ACJ系列卫生级下磁力搅拌是一种通过磁力转动底装式下搅拌器，是全封闭、无泄露、无污染的搅拌方式，由于它是通过磁力转动使其是没有转动轴的无接触式传递扭矩，以隔离套隔离方式的静密封取代了传动轴的动密封，能彻底解决机械密封无法解决的泄露问题。该设备主要用于制药、食品、等行业溶解、混合、配料之用。

其结构由内磁钢（带搅拌桨）、隔离套、活动轴承、外磁钢、驱动装置等组成的接触物料部分的材质采用不锈钢316L或304（供选）。

ACJ series sanitary magnetic mixer is a bottom entre type mixer through magnetic drive,a new mixing style of full closed,no pollution. Because of it's magnetic drive eithout shaft make non-contact torque transfer,silence seal(separation sleeve)instead of dynamic seal (driven shaft),which can completely solve the leaking problem of mechanical seal.

The mixer is composed of inside magnet(with impeller),separation sleeve,living bearing,driving unit,the wetted parts are made of stainless steed 304 or stainlesssteel 316L(for selection)

特点：

- 1.用焊接式隔离套静态密封取代了传动轴的机械密封，能彻底解决机械密封无法解决的泄露问题。
- 2.结构简单维护成本低、易拆卸、易清洗无死角。
- 3.底部装置搅拌，在物料少的情况下可以搅拌，搅拌叶设计独特可以适合各种不同介质搅拌与混合。

- 1.Silence seal(separation sleeve)instead of dynamic seal (driven shaft),which can completely solve the leaking, preblem of mechanical seal.
- 2.Simple structure,low maintenances cost,east for cleaning, no desd spot.
- 3.Bottom entry mixing,can work under litte liquid material, the special impeller can be appliated for stirring and mixing for various materials.

应用范围：

制造大输液、小针剂、疫苗、血液制品、胰岛素、口服液等各种不锈钢反应缸、发酵罐、配料罐、贮液罐的搅拌装置。

Maindiy be used in stainless steel reaction tanks,fermentation tank,feeding tank,storage tanks mixing for manufacturing following material;indusion solutions,Small injections,vaccines,blood products,insulin,oral liquid,etc.

搅拌原理：

由搅拌叶轮旋转产生了旋涡，将可溶解的粉体或液体吸入漩涡中并且被迅速的吸到搅拌叶轮，到了搅拌叶轮吸入方向随着叶轮旋转的离心力有叶轮外径将不同介质以辐射的形式冲撞向罐壁，在冲撞罐壁后液体随着冲撞力及上升循环再被下吸回到叶轮的吸入端，在叶轮推力作用下不停地移动搅拌反应使得均质，混合，溶解，分散得以实现。

The mixing impeller produce a vortex,which sucking the soluble powder or liquid towards tothe impeller,after reaching the impeller,the fluid flows in a radial direction rush to the tank wall by the centrifugal force of impeller.After reaching the tank wall,the fluid travels upwards and then circulation down to the suction end of impeller.The overall bulk movement and the mixing action around the mixer ensure that a homogeneous,mixing, dissolving,dispersing,is achieved.



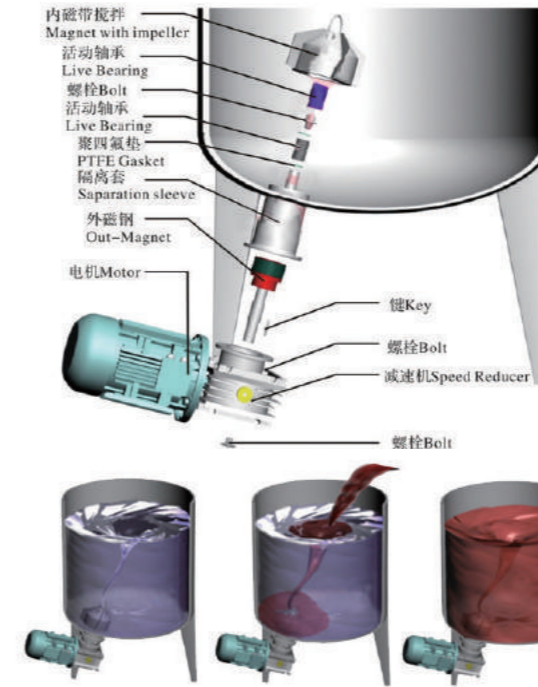
搅拌器立式直连电机
Mixer with motor



搅拌器配涡轮杆电机
Mixer with Worm reducer



搅拌器配齿轮减速器
Mixer with Gear speed reducer



操作原理：

ACJ系列卫生级下磁力搅拌其结构由内磁钢（带叶轮）、隔离套、活动轴承、外磁钢、驱动装置等组成的接触物料部分的材质采用不锈钢316L或304（供选）。在罐的底部开孔将隔离套通过焊接或法兰连接方式安装在罐的底部，驱动装置及外磁钢安装在隔离套的外面，活动轴承与内磁钢（带叶轮）安装在隔离套的里面（也就是罐的里面），由驱动装置运转带动外磁钢同步运转，外磁钢通过强磁力带动内磁钢通过强磁力带动内磁钢（带叶轮）同步运转从而达到搅拌效果。

ACJ series bottom entry magnetic mixer is cornposed of magnet (with impeller), separation sleve, living bearing ,out magnet,driving unit,the wetted patrs are made of stainless steel 304 or stainless steel 316L(for selection).Opening hole at the bottom of tank,install the separation sleeve to the bottom through welding directly or welding flange connection. Living bearing and inside magnet(with impeller)are inside of tank.The driving the inside magnet rotating synchrounously by strong magnetic force to achieve the mixing effect.

主要技术参数：

工作温度：-30~150℃(最高做220℃供选) 工作压力：-0.09~3.6MPa 转速：100~96rpm

型号 Model	适用容量 Tank Capacity(L)	转速对应功率Speed/Power(w)					
		≤120rpm	≤230rpm	≤350rpm	≤450rpm	≤620rpm	960rpm
ACJ5/67	100-200	60	60	90	120	180	250
ACJ/78	100-300	60	90	120	180	250	370
ACJ10/108	50-800	90	120	180	250	370	550
ACJ10/114	100-1200	120	180(250)	250	370	550	750
ACJ20/130	200-2500	180	250(370)	370	550	750	1100
ACJ20/145	200-3000	250	370(550)	550	750	1100	1500
ACJ30/145	300-4000	370	550	750	1100	1500	2200
ACJ30/165	500-5000	550	750	1100	1500	2200	
ACJ40/175	500-8000	550	750	1100	1500	2200	3000(4000)
ACJ40/190	1000-3000	750	1100	1500	2200	3000	5500(4000)
ACJ60/190	1500-15000	750	1100	1500	2200	3000	
ACJ60/220	1500-15000	1100	1500	2200	3000		
ACJ80/215	2000-20000	1100	1500	2200	3000	4000	7500
ACJ80/245	3000-20000	1500	2200	3000	4000		
ACJ120/240	4000-25000	1500	2200	3000	4000	5500	11000
ACJ120/275	5000-20000	2200	3000	4000	5500		
ACJ160/280	6000-30000	2200	3000	4000	5500	7500	15000
ACJ160/320	6000-30000	3000	4000	5500	7500		
ACJ200/342	10000-35000	3000	4000	5500	7500	11000	
ACJ200/390	12000-35000	4000	5500	7500	11000		
ACJ300/415	15000-40000	5500	7500	11000	15000		
ACJ300/460	20000-50000	7500	11000	15000	18500		

以上配置适用于介质为同于水特性，一般溶解混合用

- 1.转速500RPM以上必须选用L型（立式R系列齿轮减速机或立式电机）。
- 2.容器配置大小要根据搅拌要求。如：柔和搅拌配大此及强烈搅拌配小。

Abone data is sutable for the medium has similar character os water,for nomal mixing,dissolving

- 1.If speed is over 500rpm,the motor must be vertical type(R-series gear speed ruder)
- 2.Select mixer accrod to mixer style;if gentle,with big size impeller,if fierce with small.

胶体磨

COLLOID MIL

工作原理

胶体磨工作原理是剪切，研磨及高速搅拌作用。磨碎依靠两个齿形面的相对运动，其中一个高速旋转，另一个静止，使通过齿面之间的物料受到极大的剪切力及磨擦力，同时又在高频震动，高速旋涡等复杂力的作用下使物料有效的分散、乳化、粉碎、均质。

JMF/JML系列胶体磨是湿式超微粒加工的新型设备，适用于各类半流体、流体、乳状液的均质、乳化、混合、粉碎等。

应用范围

食品工业：芦荟、花粉破壁、菠萝、芝麻、果茶、冰淇淋、月饼馅、奶油、果酱、果汁、大豆、豆酱、豆沙、花生奶、蛋白奶、豆奶、乳制品、麦乳精、香精、各种饮料、乳化鸡骨泥、乳化猪皮及其他动物皮等。

化学工业：油漆、颜料、染料、涂料、润滑油、海滑脂、柴油、石油催化剂、乳化沥青、胶粘剂、洗涤剂、塑料、炸药、玻璃钢、皮革、乳化炸药等。

日用化工：牙膏、洗涤剂、洗发精、鞋油、化妆品、沐浴精、肥皂、香脂等。

医药化工：糖浆、营养液、中成药、膏状药剂、生物制品、鱼肝油、花粉、蜂浆、疫苗、各种药膏、各种口服液、针剂、静滴液、胰酶制剂、乳剂、牧药等。

其他化工：塑料工业、纺织工业、造纸工业、生物化工、环保节能、煤炭浮选剂、纳米材料、各大中院校、科研单位等。

Operation Principle

Colloid mill works with shearing, grinding high-speed stirring. Grinding process occurs in the relative movement between the two teeth with one revolving in high speed and another still, which makes the material between the teeth receive strong shearing and abrasion in addition to high frequency vibration and high speed swirl. The above forces effectively evenly disperse, emulsify, smash the material. JMF/JML is a new equipment that wet processed superfine grain, which is used for smashing, mixing, emulsifying and homogenizing various semi-liquids and emulsion.

Colloid Mill Applications

Food industry: (aloe, bee pollen, pineapple, sesame, fruit tea, ice cream, moon cake stuffing, butter, jam, juice, soybean, bean sauce) sweetened bean paste, peanut milk, protein milk, soybean milk, dairy products, malted milk, favoring essence, beverages, emulsified chick bone paste, emulsified pig skins and other animal skins, etc.

Chemical industry: paint pigment, dye coating, lubricant, lubricating grease, diesel, petroleum catalyst, emulsified asphalt, adhesive, detergent, plastic, explosive, glass fiber reinforced plastic, leather, emulsion explosive, etc.

Daily chemicals: toothpaste, detergent, shampoo, shoe polish, cosmetics, bath concentrate, soap, fragrance grease, etc.

Pharmacy: syrup, nutrition liquid, Chinese traditional patent medicine cream medicine, biological products, cod-liver oil, pollen, royal jelly, vaccine, various ointments, various oral liquid, injection, vein liquid extract pancreatin agent, emulsion, animal medicine, etc.

Other industries: plastic industry, textile industry, paper making industry, biochemical, environment protection & energy saving coal floatation agent, nanometer material, various schools, colleges, research institutes, etc.



普通型立式胶体磨
Normal verticle colloid mill

普通型分体式胶体磨
Normal split-case colloid mill

卫生级立式胶体磨
Sanitary verticle colloid mill

卫生级分体式胶体磨
Sanitary split-case colloid mill

技术参数

Main Parameter

型号	乳化细度单循环或多循环 Emulsified granularity single cycle or multi-cycle (um)	调节范围 Regulating range (mm)	产量(按物料性质而变化) Output (variable with different dium) (t/Hr)	电机功率 Range of capacity (kw)	电机转速 Rotation speed (r/min)	标准电压 Stand Voltage	磨片直径 Diameter of milling slice	进料口直径 Diameter of feed inlet	出料口直径 Diameter of feed outlet	冷却水管径 Port size of cooling system	外形尺寸 长x宽x高 Dimension LxWxH (mm)
JML-50	5-40	1-0.01	0.01-0.2	1.1	2900	380	50	32	15	1/8"	420x280x760
JML-80	3-40	1-0.01	0.3-1	3	2900	380	80	50	25	1/4"	520x400x900
JML-100	2-40	1-0.01	0.5-2	5.5	2900	380	100	50	32	1/4"	560x420x950
JML-120	2-40	1-0.01	0.7-3	7.5	2900	380	120	65	40	1/4"	560x420x950
JMF-80	2-40	1-0.01	0.3-1	4	2900	380	80	50	25	1/4"	640x550x1030
JMF-100	2-40	1-0.01	0.5-2	5.5	2900	380	100	50	32	1/4"	750x620x1080
JMF-120	2-40	1-0.01	0.7-3	7.5	2900	380	120	65	40	1/4"	750x620x1080
JMF-140	2-40	1-0.01	1-4	11	2900	380	140	80	40	1/4"	820x700x1250
JMF-200	2-40	1-0.01	2-7	15	2900	380	200	120	65	1/4"	980x800x1550
JMF-280	2-40	1-0.01	3-10	22	2900	380	250	120	65	1/4"	1140x900x1850

JML系列代表普通型立式，JMF系列代表普通型分体式

JML series standard for verticle type, JMF series stand for split-case type.



高效乳化均质配料机

EFFICIENT ONLINE MIXER SYSTEM

工作原理

高效在线混料机系统是最新一代固体和液体，液体和液体快速高效混合系统设备。系统具有动力强劲的液环真空动力系统，保证系统工作高效，安全可靠；而且还巧妙的设计了一套精确而紧密咬合的转子-定子系统，使得高效在线混料机具备多种独特而相互统一的功能。在独特而紧凑的结构系统内，两套系统协同配合，共同作用，使非均质的物料在很小的空间里得到快速、彻底的均质和混合，得到细密均匀而且可稳定产品的生产结果。

Operation Principle

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.

特点

具备混合，搅拌，分散，均质，乳化，匀浆等多种功能，通用性强；

生产稳定均可无限重复验证。尤其在乳品、饮料、食品和药品生产工艺中显得重要。

无粉团、无颗粒、无团块凝集物形成。

高效率：与传统的工艺相比，可缩短约80%的工作时间，极大的提高生产效率，降低生产成本。

既广泛适用连续自动生产线，也适用于不同的批次生产应用场合。

特别适用于高黏度，难溶解的物料(黏度可达90,000mPas)；

设备无死角，可完全在线CIP/SIP符合卫生要求和标准。

模块化结构：不需现场安装调试而直接使用，大大降低安装成本。

结构紧凑：占用空间小，易于与其他系统整合，节约投资。

Features

Have mixed, stirring, decentralized, heterogeneous, emulsion, homogenized, and other functions, high universality;

Production stability uniform, can be infinitely repeated verification. Particularly in dairy products, beverages, food and pharmaceutical production process more important.

No powder Mission, grain-free, no clumps of a lectin.

High efficiency: Compared with the traditional process can be shortened by about 80 percent of the time, greatly improving production efficiency, reduce production costs. Extensive application for automated production lines, but also to different batch production applications.

Particularly applicable to high-viscosity, difficult to dissolve the material (viscosity up to 90,000 mPas);

Hassle Free equipment can be fully online CIP / SIP, meet the health requirements and standards.

Modular structure: the scene without the direct use of debugging, significantly reducing installation costs.

Compact: small space, easy integration with other systems, saving investment.



技术参数

Main Parameter

型号	定转子层数 Layer of rotor-stator	处理量 (流量) Flow rate (T/H)	乳化器功率 Power of in-line mixer(kw)	乳化器/自吸泵转速 Rotation speed of in-line mixer and self-priming pump(r/min)	备注 Remarks
DRL-B-120	4	0.1-3	4	2900/1450	此系统中输送泵根据物料的性质选用不同类型的泵 The feeding pump will be used different type according to medium's property
DRL-B-140	6	0.3-5	5.5/7.5	2900/1450	
DRL-B-165	6	0.3-8	7.5/11	2900/1450	
DRL-B-180	6	1-10	11/15	2900/1450	
DRL-B-180	8	1-12	15/18.5	2900/1450	
DRL-B-200	8	1-20	18.5/22	2900/1450	
DRL-B-200	10	1-20	22	2900/1450	
DRL-B-230	10	2-30	30	2900/1450	
DRL-B-250	10	2-40	37	2900/1450	

储罐

STORAGE TANK

结构特征

- 1.采用单层不锈钢结构。
- 2.材料均为卫生级不锈钢SUS304或316L。
- 3.结构设计极具人性化，可操作性强。
- 4.筒体内壁过渡段采用圆弧过渡，保证卫生无死角。

STRUCTURE CHARACTERISTICS

- 1.Made of single-layer stainless steel structure.
- 2.Materials are all sanitary stainless steel SUS 304/316L.
- 3.Humanized structure design and easy to operate.
- 4.Transition area of interior wall on tank adopts arc for transition to ensure no dead corner of sanitation.

使用范围

- 1.可作储液罐、混料罐、暂存罐、储水罐等。
- 2.适用于食品、乳制品、果汁饮料、医药化工及生物工程等领域。

罐体K置

- 1.快开式人孔。
- 2.各种型式的CIP清洗器。
- 3.防蝇虫卫生级透气罩。
- 4.可调式三角支腿。
- 5.可拆卸进料管套件。
- 6.温度计(根据客户要求配置)。
- 7.爬梯(根据客户要求配置)。
- 8.液位计及液位控制(根据客户要求配置)。
- 9.防涡板。

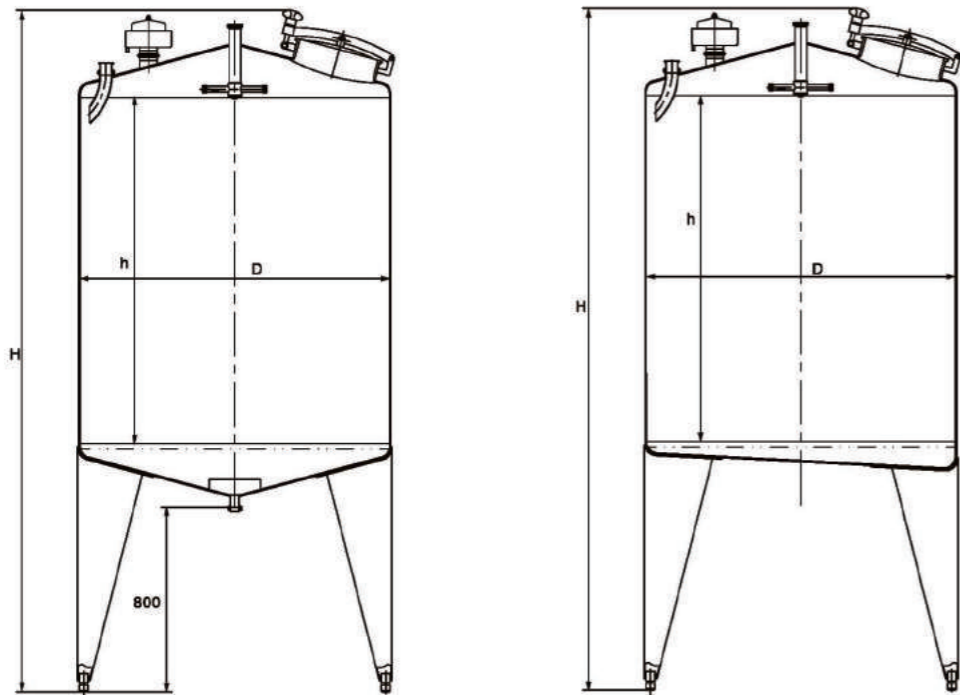


APPLICABLE RANGE

- 1.Used as liquid storage tank, liquid composing tank, temporary storage tank and water storage tank etc.
- 2.Ideal in fields such as foods,dairy products,fruit juice beverages,pharmacy, chemical industry and biological engineering etc.

CONFIGURATION OF TANK

- 1.Quick open manhole.
- 2.Various types of CIP cleaners.
- 3.Fly and insect resistant sanitary breathing cover.
- 4.Adjustable triangular bracket.
- 5.Dismountable materials input pipe assembly
- 6.The rmometer(According to customer requirements).
- 7.Ladder (According to customer requirements).
- 8.Liquid level meter and level controller (According to customer requirements).
- 9.Eddy-proof board.



技术参数
Main Parameter

有效容积 Effective (L)	筒体尺寸(DxH) Dimension of tank (mmxmm)	总高(H) Total height (mm)	进出口口径 Diameter of inlet&outlet (mm)
500	840x1000	2250	38
600	920x1000	2300	38
700	990x1000	2300	38
800	950x1220	2500	38
900	1010x1220	2500	38
1000	1060x1220	2550	51
1500	1160x1500	2850	51
2000	1340x1500	2900	51
3000	1410x2000	3400	51
4000	1620x2000	3450	51
5000	1810x2000	3500	51
6000	1980x2000	3550	51
7000	1930x2440	4000	51
8000	2060x2440	4000	51
9000	2180x2440	4050	51
10000	2300x2440	4050	51
12000	2270x3000	4600	51
15000	2530x3000	4700	51
20000	2640x3660	5400	51

如客户提出特殊要求可根据客户要求定作。总高(H)是根据出料口高度800mm而得出的数据，如改变出料口高度，总高(H)作相应调整。

It can be made according to special requirements of customers.Total height (H) is in accordance with outlet height of 800 mm. If outlet height is changed. Then total height (H) shall also be adjusted.

顶部高剪切乳化罐

HIGH-SPEED MIXING (SHEARING) TANK

产品说明

高剪切乳化罐是目前国内乳品、饮料、食品等行业最先进的混合设备。公司生产的高剪切混合乳化机引进了国外先进技术，具有独特的搅拌结构，与众不同的混合乳化功能。

原理和特性:本机搅拌器由紧密配合的转子和定子两部份组成,转子高速旋转,定子则固定不动。高速乳化头工作时将转子中心的物料高速抛向定子,通过定子的齿间隙,在转子和定子之间通过剪切、碰撞、粉碎而达到乳化的目的。是集混合、乳化、均质、溶解、粉碎等功能于一体的设备。

本机使用方便,操作灵活,有单层、双层保温,夹层等三种结构。

The high shear emulsifying tank is the most advanced blending equipment in such industries as dairy, beverage, food, etc. The high shear emulsifying tank produced by our company is provided with unique blending structure and outstanding mixing and emulsifying functions after we have introduced advanced technology from abroad.

Principle and features: The blender of the machine is composed of the closely associated rotor and stator. The rotor rotates at a high speed and the stator is fixed without movement. When the high-speed emulsifying head works, it throws the materials at the center of the rotor to the stator at a high speed, then through tooth clearance of the stator, and shearing, collision and crushing between rotor and stator, the emulsification is realized. Therefore, it is a piece of equipment integrating such functions as blending, emulsifying, homogenizing, solving, crushing and etc. The machine is easy to use and flexible to operate. It has three kinds of structures such as single-layer heat preservation, double-layer heat reservation and jacket.

技术参数

Main Parameter

型号 Model	有效容积(V) Diameter (L)	内径(D) Inner diameter (mm)	总高(H) Height (mm)	乳化电机功率 Shearer Motor power (KW)	乳化头转速 Mixer speed (r/m)
HDRT-600	600	800	2140	7.5	2900/1450
HDRT-1000	1000	1050	2380	11	2900/1450
HDRT-1500	1500	1180	2450	15	2900/1450
HDRT-2000	2000	1340	2760	18.5	2900/1450
HDRT-3000	3000	1540	2870	22	2900/1450

注：可根据客户要求制作(另一种形式为顶部低速搅拌，底部带高速乳头)

Note: Production can be made according to customer requirements (another form is low speed blending at the top and high speed emulsifying head at the bottom)

应用领域：

适用于乳剂、胶浆、油漆、颜料、染料、造纸、农药制品等化工、轻工行业对液-液、液-固物料包括可需要搅拌、分散、乳化、均质、粉碎、悬浮和溶解的过程均可迅速完成。

It can be used in any liquid-liquid, liquid-solid product including emulsion reagent, paint, dye, pigment, paper and so on, which may needs agitation, dispersion, emulsification, equalization, milling, suspending and dissolving in chemical or light industry.



夹层锅

INTERMEDIATE LAYER PAN

夹层配料锅

本设备是带有搅拌结构的配料与浓缩装置，应用广泛，本设备与物料接触部分均采用不德钢制造，经久耐用，并符合GMP标准要求。

JACKETED DISPENSING BOILER

The equipment is a device for preparation and concentration with mixing structure. It has wide application range. The parts of the equipment contacting with materials are all made of stainless steel, which is durable and is in accordance with GMP standard requirements.

系列夹层锅

可倾式夹层锅由锅体、支架、蜗轮、蜗杆等部件组成，锅体可作180°以内的转动，本设备为敞口式浓缩，主要用于制药、食品、化工、轻工等行业对料液的煎煮和浓缩，该设备与物料接触部分为不锈钢SUS304,具有较好的耐腐蚀性能，经久耐用，符合GMP要求，同时亦、可根据用户要求，可增加搅拌装置。

SERIES TILTING JACKETED KETTLES

Tilting jacketed kettle is composed of kettle, bracket, worm wheel and worm etc. The kettle can revolve within 180°. The equipment is used for open concentration, mainly for decocting and concentration of liquids in industries of pharmaceutical industry, food industry, chemical industry and light industry etc. The parts of the equipment contacting with materials are made of stainless steel SUS 304. 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

型号 Model	设备容量 Equipment volume(L)	夹套工作压力 Working pressure in jacket(Mpa)	蒸发量 Evaporation quantity(kg/h)	加热面积 Heating area(m²)	能耗 Energy consumption (kg/h)	设备重量 Equipment weight (kg)	外型尺寸Outline dimension(mm)		
							宽 Width	高 Height	长 Lenght
HJP50	50	<0.2	30	0.4	33	170	720	600	830
HJP100	100	<0.2	40	0.45	44	190	800	650	950
HJP150	150	<0.2	50	0.76	55	210	1350	660	1000
HJP200	200	<0.2	65	1.0	72	230	1400	700	1100
HJP300	300	<0.2	75	1.15	90	320	1450	800	1110
HJP400	400	<0.2	100	1.44	110	360	1500	850	1140
HJP500	500	<0.2	150	1.90	165	485	1600	900	1150