

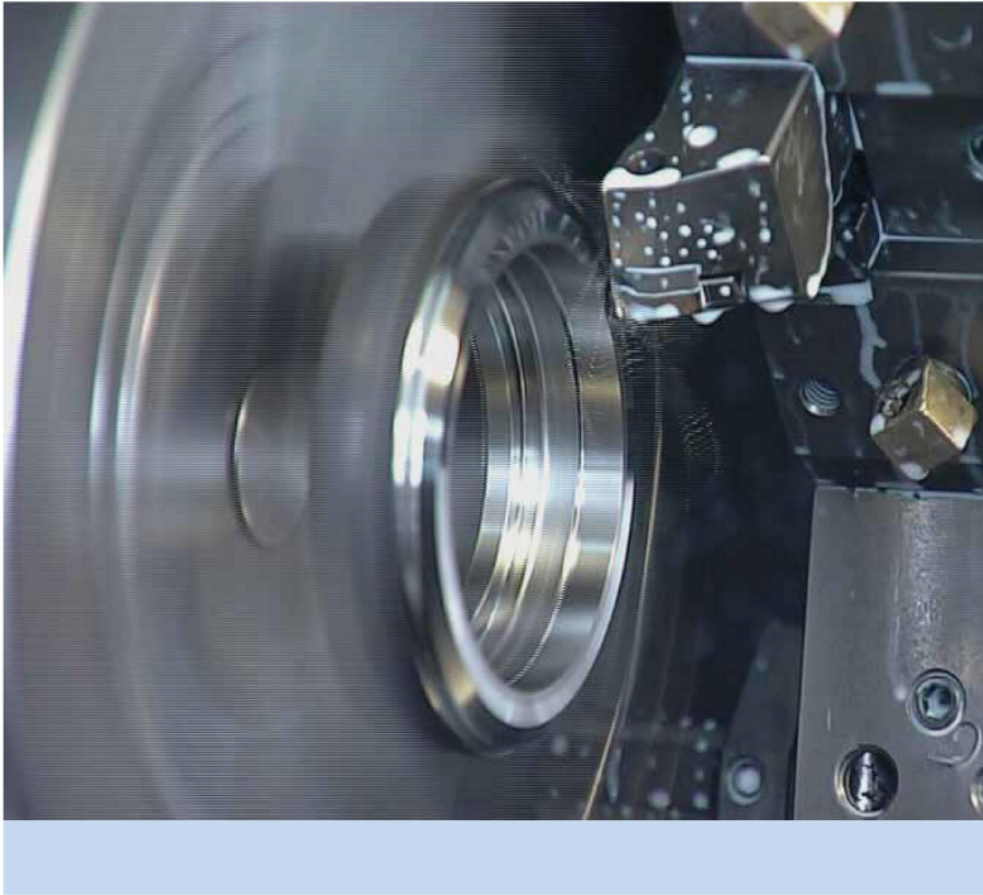
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Processing Equipment 加工装备

现代化的加工装备 / 先进的检测设备是我们产品质量的保障！
Modern production Facility/advanced Inspection Equipment Ensure products Quality!



Centrifugal Pumps (KSCP Series) 离心泵 (KSCP 系列)



应用

Applications

- 该离心泵是不锈钢制造，带有不锈钢电机外壳。
- 卫生和低成本效益的设计，使它非常适用于乳制品、饮料、食品加工、制药和精细化工工业中。
- The centrifugal pump is manufactured in stainless steel and with a hrouded motor.
- Its sanitary and cost-efficient design makes it perfect for the dairies, beverages, food-processing, pharmaceutical and fine chemicals industries.

工作原理

Operating Principles

- 叶轮安装在泵壳里面，它和泵轴一起在联合中旋转，叶轮刀片以动能和压力的形式将能量传给液体。
- 该泵即使通过简单的反向旋转，也是不可行的。从电机后面也可以看出泵的旋转方向，正确的旋转方向，是顺时针的。
- Housed inside the casing, the impeller rotates in conjunction with the pump shaft. With this arrangement, the impeller blades convey energy to the fluid in the form of kinetic energy and pressure energy.
- This pump is not reversible by simple reversal of the direction of rotation. The direction of rotation is clockwise when the pump is viewed from the rear side of the motor.

技术规格

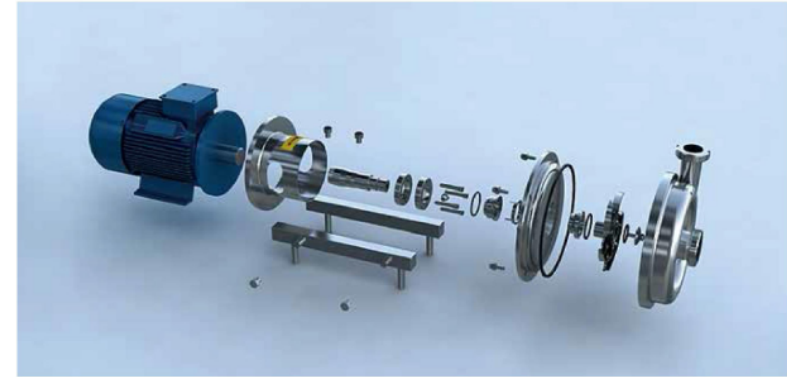
Technical Specifications

- 最大流量: 130 m³/h
- 最高扬程: 70 H(m)
- 最高温度: 120°C / 248°F
- 最高转速: 3600 min⁻¹
- 卫生认证: 3A-02-10/ NO.1597, 密封FDA.177.2600
- Max. flow: 130 m³/h
- Max. head: 70H(m)
- Max. temperature: 120°C/ 248°F
- Max. rev.: 3600 min⁻¹
- Certificate:3A-02-10/NO.1597, FDA.177.2600

设计和特点

Design and Features

- 不锈钢电机外面由冷成型板铸成；开放式叶轮或闭式叶轮由不锈钢熔模铸造；
- 可调节不锈钢脚；根据3A卫生标准认证；IEC标准NEMA B35电机，IP55，F等级绝缘，50HZ,60HZ
- Casing manufactured with cold-formed plate. Open impeller and close impeller manufactured with stainless steel investment casting.
- Adjustable stainless steel legs. Pump designed according to 3A sanitary standards. IEC NEMA B34 motors, IP 55, F-class insulation,50HZ,60HZ



选项

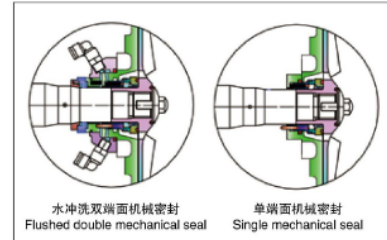
Options

- 机械密封圈:C/SiC,TC/TC
- 垫圈:FPM(VITON)和NBR
- 进出口连接:卡箍、螺纹、法兰, DIN,SMS,RJT,IDF
- 电机2900, 1450,3600min⁻¹,50HZ,60HZ
- 单端面机械密封(标准)
- 水冲洗双端面机械密封(选项)
- Mechanical seal in: C/St.S and SiC/SiC
- Gaskets in: FPM (Viton)and PTFE
- Connections: Clamp,thread,flange,DIN,SMS,RJT,IDF
- Motor 2900, 1450,3600 rev./min., 50HZ,60HZ
- Single mechanical seal(standard)
- Flushed couble mechanical seal(Options)

材质

Materials

- 与物料接触部位:AISI 316L/304
- 垫圈(标准):EPDM (FDA)
- 机械密封圈(标准):C/SiC/EPDM
- 内表面处理:Ra ≤0.8
- 外表面处理:喷砂处理或抛光处理
- Parts in contact with pumped media: AISI 316L/AISI304
- Gaskets (standard): EPDM (FDA)
- Mechanical seal (standard): C/SiC/EPDM
- Inside surface finishing: Ra≤0.8 um
- Outside surface finishing: Sandblast or Mirror Polish



水冲洗双端面机械密封
Flushed double mechanical seal

单端面机械密封
Single mechanical seal

电机采用IEC EN IE2高效等级(相当于中国二级能效), PTC热敏电阻
Motor the IEC EN IE2 (Equivalent to China two energy efficiency),PTC thermistor

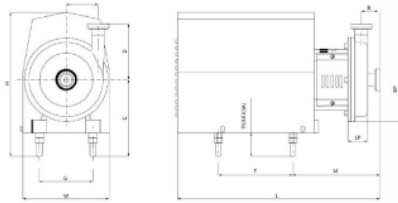
宽电压电压Wide input range motor

功率 (kW) Power (kW)	电压备注 Voltage	功率 (kW) Power (kW)	电压备注 Voltage
0.55	210V-230V/50HZ 360V-400V/50HZ 420V-460V/60HZ	4	360V-400V/50HZ 630V-690V/50HZ 420V-460V/60HZ
0.75		5.5	
1.1		7.5	
1.5		11	
2.2		15	
3		18.5	
		30	

其他电压和频率电机请与供应商联系

Please contact DGEDONG for any other voltage or frequency of motor.

Centrifugal Pumps (KSCP Series) 离心泵 (KSCP 系列)



开式离心泵安装尺寸

Centrifugal Pump Open Impeller Series

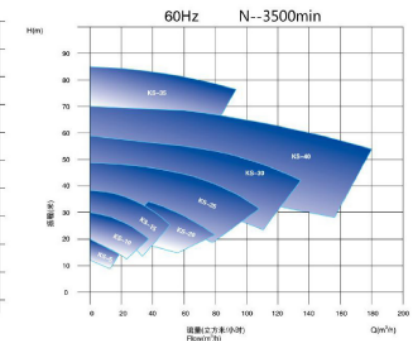
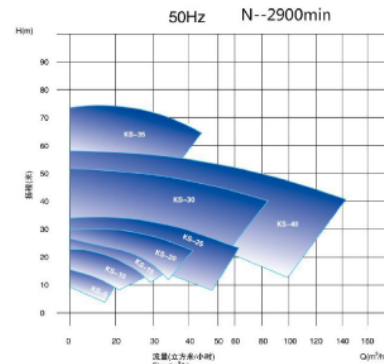
型号 Modes	泵头规格 Pump Dimension						外形安装尺寸 Assembly Dimension												3A 标准	
	功率 Power (kw)	进口 Inlet d' /DN	出口 Outlet d' /DN	ΦP	Lp	机械密封 Mechanical seal size	A	B	C	D	M	F	G	H	L	W	C	H		
KSCP-5	0.75	1.5"	3/2	1.5"	3/2	189	50	Φ32	200	169	203	125	370	452	210	232	402			
	0.75	1.5"	3/2	1.5"	3/2	189	50	Φ32	200	173	203	125	370	452	210	232	402			
KSCP-10	1.1	1.5"	3/2	1.5"	3/2	189	50	Φ32	200	175	203	125	370	452	210	232	402			
	1.5	1.5"	4/0	1.5"	4/0	189	50	Φ32	190	161	240	140	360	492	210	222	392			
	2.2	1.5"	4/0	1.5"	4/0	189	50	Φ32	190	162	240	140	360	492	210	222	392			
KSCP-15	1.5	2"	5/0	1.5"	4/0	250	61	Φ32	190	187	240	140	360	525	210	222	392			
	2.2	2"	5/0	1.5"	4/0	250	61	Φ32	190	187	240	140	360	525	210	222	392			
	3	2"	5/0	1.5"	4/0	250	61	Φ32	230	171	300	160	430	593	260	262	462			
KSCP-20	3	2"	5/0	2"	5/0	250	74.5	Φ32	230	171	300	160	430	592	260	262	462			
	4	2"	5/0	2"	5/0	250	74.5	Φ32	222	179	300	190	430	598	260	254	462			
	5.5	2.5"	6/5	2"	5/0	250	74.5	Φ32	242	197	330	216	460	653	310	274	462			
KSCP-25	3	2"	5/0	1.5"	4/0	268	57	Φ32	230	173	300	216	430	500	260	262	462			
	4	2"	5/0	1.5"	4/0	268	57	Φ32	222	181	300	216	430	590	260	254	462			
KSCP-30	5.5	2.5"	5/0	2"	5/0	288	57	Φ32	242	199	330	254	460	651	310	274	492			
	7.5	2.5"	6/5	2"	5/0	288	57	Φ32	242	199	330	254	460	651	310	274	492			
KSCP-35	7.5	2.5"	6/5	1.5"	4/0	350	86.5	Φ36	242	216	330	254	460	721	310	274	492			
	11	2.5"	6/5	1.5"	4/0	350	86.5	Φ36	290	234	450	254	575	871	375	322	607			
	15	2.5"	6/5	2"	5/0	350	86.5	Φ36	290	240	450	254	575	871	375	322	607			
KSCP-40	11	2.5"	6/5	2.5"	6/5	303	90	Φ36	290	235	450	254	575	866	375	322	607			
	15	3"	8/0	2.5"	6/5	303	90	Φ36	290	238	450	254	575	866	375	322	607			
	18.5	3"	8/0	2.5"	6/5	303	90	Φ36	290	234	450	254	575	821	375	322	607			
	22	3"	8/0	2.5"	6/5	303	90	Φ36	310	234	515	279	625	946	400	342	657			

注意: 详细选型详见选型表; 以下表格的尺寸为参考值, 实际尺寸以实物为准。
Attention: Please refer to selection table for details of next page. The size in the following form is the reference value, the actual size is according to practicality.



离心泵型号说明

Model Instruction of Centrifugal Pump



SCP系列型号

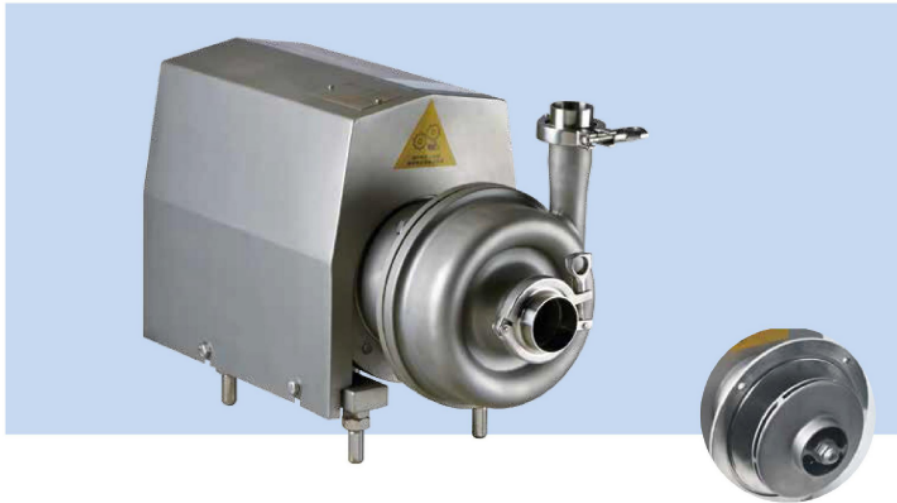
Centrifugal pump

SCP series pump and motor configuration

序号	型号 Model	流量 Flow	扬程 Lift	功率 Power	进口/出口 Inlet/Outlet	电机品牌 Motor Option
1	KSCP-1.5-14	1.5 T	14 M	0.55KW	38/32	
2	KSCP-3-16	3 T	16 M	0.75KW	38/36	
3	KSCP-5-16	5 T	16 M	1.1KW	38/36	
4	KSCP-3-24	3 T	24 M	1.5KW	51/36	
5	KSCP-3-30	3 T	30 M	2.2KW	51/36	
6	KSCP-5-24	5 T	24 M	1.5KW	51/36	
7	KSCP-5-30	5 T	32 M	2.2KW	51/36	
8	KSCP-10-24	10 T	24 M	2.2KW	51/36	
9	KSCP-10-36	10 T	36 M	3KW	51/36	
10	KSCP-15-24	15 T	24 M	3KW	51/51	
11	KSCP-20-24	20 T	24 M	4KW	51/51	
12	KSCP-20-36	20 T	36 M	5.5KW	51/51	
13	KSCP-25-35	25 T	35 M	5.5KW	51/51	
14	KSCP-30-24	30 T	24 M	5.5KW	63/51	
15	KSCP-30-36	30 T	36 M	7.5KW	63/51	
16	SCP-40-24	40 T	24 M	7.5KW	63/51	
17	KSCP-20-60	20 T	60 M	11KW	63/51	
18	KSCP-30-50	30 T	50 M	11KW	63/63	
19	KSCP-40-35	40 T	35 M	11KW	63/63	
20	KSCP-40-50	40 T	50 M	15KW	76/63	
21	KSCP-60-30	60 T	30 M	15KW	76/63	
22	KSCP-30-60	30 T	60 M	15KW	76/51	
23	KSCP-50-50	50T	50M	18.5KM	76/63	
24	KSCP-80-50	80T	50M	22KM	89/76	

ABB 电机
ABB Motor
西门子电机
SIEMENS Motor

Centrifugal Pumps (BSCP Series) 离心泵 (BSCP 系列)



离心泵 Centrifugal Pump

- 该泵闭式叶轮设计，适用于食品加工、酿酒、饮料等工业领域。
- 该泵为顺时针旋转，即使简单的反转也是禁止的。从电机后面也可以判断旋转方向。
- 该泵通过 3A-02-10 认证，密封通过 FDA.177.2600 认证。
- BS Series centrifugal pump is designed with close impeller,widely used in dairies, beverage, food-processing industry.
- The correct direction of rotation of this pump is clockwise, it is not .
- The direction of rotation can be viewed from motor.

技术规格 Technical Specifications

- 最大流量: 130m³/h
- 最高扬程: 100H(M)
- 最高转速: 3600Min-1
- 最高温度: 120°C /248 °F (CIP/SIP)
- 与物料接触材质: SS304/316
- 其他部位材质: SS304
- 机械密封: SIC/SIC/EPDM (标准)
- 表面处理: 抛光 / 亚光
- 进出口: 卡箍连接 (标准)

电机采用 IEC EN IE2 高效等级 (相当于中国二级能效), PTC 热敏电阻 Motor the IEC EN IE2 (Equivalent to China two energy efficiency), PTC thermistor

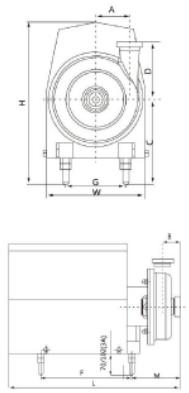
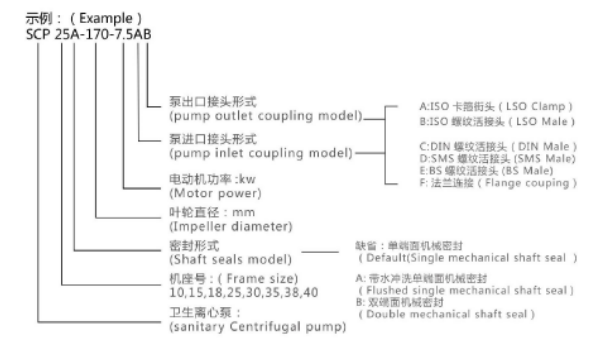
宽带压电压 Wide input range motor

功率 (KW) Power (KW)	电压备注 Voltage	功率 (KW) Power (KW)	电压备注 Voltage
0.55	210V~230V/50HZ	4	360V~400V/50HZ
0.75		5.5	
1.1		7.5	
1.5	360V~400V/50HZ	11	630V~690V/50HZ
2.2		15	
3	420V~460V/60HZ	18.5	420V~460V/60HZ
		30	

其他电压和频率电机请与德安联系
Please contact DGEDONG for any other voltage or frequency of motor.

- Max.Flow:130m³/h
- Max.Head:100H(M)
- Max.rev:3600Min-1
- Max.working temperature:120°C /248 °F (CIP/SIP)
- Material in contacting with products:SS304/316
- Other parts:SS304
- Mechanical seal:SIC/SIC/EPDM(standard)
- Surface finish:Mirror or satin polish
- Inlet & Outlet: Connection Clamp (Standard)

卫生离心泵型号说明 Sanitary type Pump Model explanation



注意: 详细选型详见选型表; 以下表格的尺寸为参考值, 实际尺寸以实物为准。
Attention: Please refer to selection table for details of next page. The size in the following form is the reference value, the actual size is according to practically.

型号 Model	泵头规格 Pump Dimension						外形安装尺寸 Assembly Dimension											3A标准	
	功率 Power (KW)	进口 Inlet d"/DN	出口 Outlet d"/DN	φ p	Lp	机械密封 Mechanical seal size	A	B	C	D	M	F	G	H	L	W	C	M	
BSCP-2	0.75	1.5"/32	1.5"/32	174	68	22	56	51	200	136	162	203	125	370	449	210	212	402	
	1.1	1.5"/32	1.5"/32	174	68	22	56	51	200	136	162	203	125	370	449	210	212	402	
BSCP-4	1.5	1.5"/32	1.5"/40	215	75	22	76	59	190	151	174	240	140	360	514	210	222	392	
	2.2	2"/50	1.5"/40	215	72	22	76	59	190	142	174	300	140	360	514	210	222	392	
BSCP-6	2.2	2"/50	1.5"/40	234	83	22	86	70	190	173	188	300	160	420	528	260	242	452	
	3	2"/50	1.5"/40	234	83	22	86	70	230	173	180	300	160	420	579	260	242	452	
BSCP-8	3	2"/50	2"/50	243	85	22	86	70	230	173	180	300	190	430	579	260	244	462	
BSCP-10	4	2"/50	2"/50	243	85	22	86	70	222	173	187	300	190	430	606	260	244	462	
BSCP-12	5.5	2"/50	2"/50	243	85	22	86	70	242	167	216	330	216	460	680	310	274	492	
	7.5	2.2"/65	2"/50	243	85	22	86	70	242	167	216	330	216	460	680	310	274	492	

选项 Options

- 泵头低排放: 隔膜阀/球阀/蝶阀
- 机械密封: C/SIC/EPDM
- 进出口: 螺纹/焊接/法兰
- Low discharge in the pump head:Diaphragm valve/ball valve/butterfly valve
- Mechanical seal:C/SIC/EPDM
- Connection way of Inlet&Outlet:Thread,Weld,Flange

Self-Priming Pump (Cip Pump) 自吸泵 (CIP 泵)



应用

Applications

- 该泵为卫生设计侧槽，自吸的泵，适用于食品加工，制药和化学工业中。
- 它专门设计用于抽取含有空气或气体的物料，它也可以用于带优先抽吸及过滤设备的负载入中。
- 它可用于酒，油，糖浆，挥发物，如酒精，丙酮和其他溶剂，或是温度接近沸点或其他物料。但是，该泵的主要用途是用于CIP的回收。
- The pump is a sanitary side channel self priming pump, it's suitable for food processing, pharmacy and chemical industry.
- It is specially designed for pumping materials containing air or gas, and it can also be used for negative suction with prior priming as well as with filtration equipment.
- It can be used with wine, oil, syrups, volatile products such as alcohol, acetone and other solvents, or with products at temperatures close to boiling point. However, the main use of this pump is for CIP return.

技术规格

Technical specifications

- 最大流量: 30m³/h / 132 GPM
- 最高扬程: 40 H(M)
- 最大压力: 3Bar/ 43 PSI
- 最高温度: 120°C/ 248°F
- 最高转速: 1750 min
- 最大吸程: 8m / 22 ft
- Max.flow:30m³/h / 132 GPM
- Max.head:40 H(M)
- Max.pressure:3Bar/ 43 PSI
- Max.operating temp.:120°C/ 248°F
- Max. rev.:1750 min
- Max.suction height:8m / 22 ft

电机参数: 安装型号B35, 频率50HZ/60HZ.
Motor type: B35, Motor frequency 50HZ/60HZ.

电机功率 (KW) 见表格:

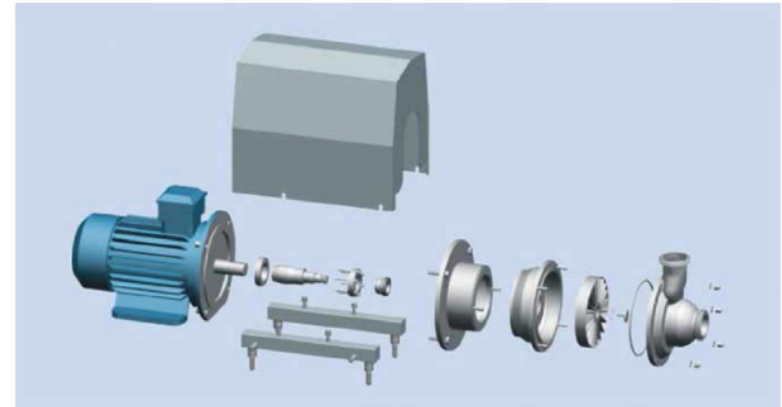
Motor power(KW) refer to table below:

功率(kW) Power(kW)	电压备注 Voltage	功率(kW) Power(kW)	电压备注 Voltage
0.75		4	
1.1	210V-230V/50HZ	4.5	360V-400V/50HZ
1.5	360V-400V/50HZ	7.5	630V-690V/50HZ
2.2	420V-460V/60HZ	11	420V-460V/60HZ
3		15	

选项

Options

- 机械密封圈 SIC/SIC
- 垫圈 FPM(Viton) and PTFE
- 进出口连接: 卡箍, 螺纹, 法兰, DIN, SMS, 3A, RJT
- Mechanical seal in SIC/SIC
- Gaskets in FPM(Viton) and PTFE
- Inlet & outlet connections: Clamp, Thread, Flange, DIN, SMS, 3A, RJT



工作原理

Operating Principles

- 叶轮安置在入口泵体和文氏管套之间，它和泵轴装配起来旋转。
- 叶轮的旋转和侧槽的排列，在进口泵体内创造了一个负压，因而产生了泵的吸力。同时，流体以动能和压力的形式接收能量，从而推动它流经叶轮盖。
- The impeller is housed between the inlet body and the venturi casing and it rotates in conjunction with the pump shaft.
- The rotation of the impeller and arrangement of the side channel, creates a negative pressure inside the inlet body, which generates the suction force of the pump. At the same time, the fluid receives energy in the form of kinetic energy and pressure energy, and this impels it through the impeller casing.

设计和特点

Design and Features

- 电机外罩由冷成型钢板制成
- 不锈钢锻钢铸造进口泵体和叶轮
- 机械密封圈可以防止泵体和泵轴之间的接触
- 不锈钢衬套 steel investment casting inlet body and impeller.
- 机械密封圈 prevents contacting between the springs and the pumped fluid
- Stainless steel support

材质

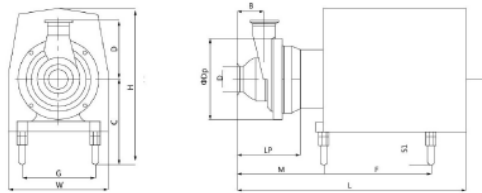
Materials

- 与物料接触部位: AISI-316/304
- 其他部分: AISI-304
- 垫圈 (标准): EPDM (FDA)
- 机械密封圈 (标准): C/SIC/EPDM
- 内表面处理: 抛光处理
- 外表面处理: 喷砂处理
- Parts in contact with pumped media: AISI-316/304
- Other parts: AISI-304
- Gaskets (standard): EPDM (FDA)
- Mechanical seal (standard): C/SIC/EPDM
- Internal surface finish: Polished
- External surface finish: Sandblast

Self-Priming Pump (Cip Pump) 自吸泵 (CIP 泵)

安装尺寸图

Assembly Dimension



系列 CIP	泵头尺寸 Pump Specification					外形安装尺寸 Assembly Dimension											3A 标准	
	功率 Power (kw)	进口 Inlet d"/DN	出口 Outlet d"/DN	ΦDp	Lp	mechanic sealsize	B	C	D	M	F	G	H	L	W	C	H	
CIP-B07	2.2	2" /50	2" /50	192	160	Φ32	71	230	142	233	300	160	430	652	260	262	462	
CIP-B010	3	2" /50	2" /50	192	160	Φ32	71	230	142	233	300	160	430	652	260	262	462	
CIP-B20	4	2.5" /65	2" /50	248	200	Φ32	83.5	210	185	254	300	190	422	642	260	242	454	
CIP-B25	5.5	2.5" /65	2.5" /65	248	200	Φ32	83.5	242	185	282	330	216	460	772	310	274	492	
CIP-B30	7.5	3" /80	2.5" /65	248	200	Φ32	83.5	242	185	282	330	216	460	772	310	274	492	

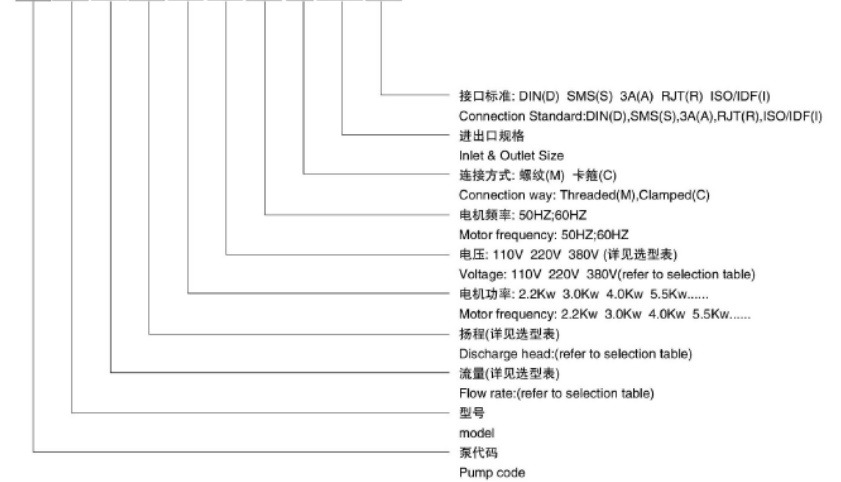
注意：详细选型详见选型表；以下表格里的尺寸为参考值，实际尺寸以实物为准。
Attention: Please refer to selection table for details of next page. The size in the following form is the reference value, the actual size is subjected to actual object.



自吸泵型号说明

Model instruction of Self-priming pump

CIP B10 10t 24 4kw 380V 50Hz M 2.5"/2.5" S



例: CIP-B10-10T-24-4kw-380V-50Hz-M-2"/2"-S
Sample: CIP-B10-10T-24-4kw-380V-50Hz-M-2"/2"-S

自吸泵选型表

Pump Selection Table

型号 Model	流量 (吨) FLOW rate(m ³ /h)	吸程 Absorption Process(M)	扬程 Discharge head(M)	功率 Power (kw)	进 / 出口 Inlet & Outlet
CIP-B07	7	6	24	2.2kw	2" /2"
CIP-B10	10	6	24	3kw	2" /2"
CIP-B20	20	6	24	4kw	2.5" /2.5"
CIP-B25	25	8	24	5.5kw	3" /2.5"
CIP-B30	30	8	24	7.5kw	3" /2.5"

Vacuum Pump Vacuum 负压泵



技术参数 Technical Parameter

- 应用：属于涡轮分流离心负压泵，可以在负压 0.09Mpa 压力下，抽取真空罐里的液体。
- 规格：3T - 180T, 0.75KW-75KW
- 材质：SUS304 SUS316L (在材料的选用上泵体、泵盖、叶轮等凡与物料接触之零件由 SUS316L 或 SUS304 不锈钢制造)
- 标准：DIN、SMS
- 叶轮：分开式叶轮和半闭式叶轮。
- 表面处理：接液部分抛光，其余亚光或喷砂处理。
- 工作条件：卫生离心泵属高液位低水平轴流，有一定吸力。
- 最大进口压力：0.5MPa
- 温度范围：-10℃至 +140℃ (EPDM)
- 可冲洗机械密封：水压：最高 0.1MPa 水量：0.25-0.5L/min

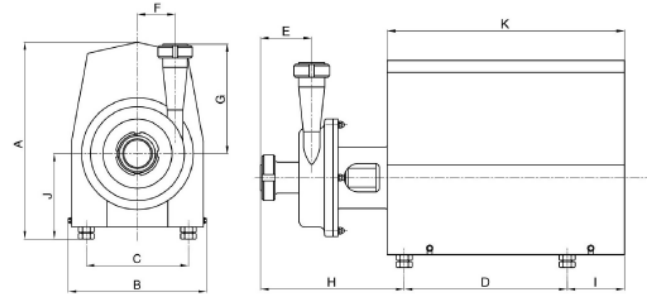
- Application: Belong to a turbine diversion centrifugal pump can extract the liquid of the vacuum tank under the pressure of negative pressure 0.09Mpa.
- Spec: 3T-180T, 0.75KW-75KW
- Material: SUS304, SUS316L (the pump body, pump cover, impeller which is contact with medium material, made of stainless steel SUS316L and SUS304)
- Standard: DIN, SMS
- Impeller: Open type impeller, semi-close type impeller
- Surface treatment: The parts contacted with medium is polished
- Working condition: sanitary centrifugal pumps is a high and low level transmission, as well as the level transmission, and has a amount of suction.
- The max pressure of inlet: 0.5MPa
- Temperature range: -10° C to +140° C (EPDM)
- Washable mechanical sealing: water pressure: Max 0.1MPa flow rate: 0.25-0.5L/min

电机 Motor

- 根据配置主要采用“ABB”品牌的三相交流电机，按照国际电工委员会 IEC60034、IEC60072 标准设计制作，符合欧共体“CE”标记要求。
- 可供选用防爆电机，以满足不同场合的需要。
- 优越的电气性能、低噪音、低震动，电机的标准设计防护等级为 IP55，绝缘等级为 F 级。
- 工作电压：
≤ 3Kw, 220-240V/380-420V, Δ/Y
> 3Kw, 380-420V/660-690V, Δ/Y
- 频率：50Hz/60Hz
- 工作方式：连续 (SI)
- 转速：标准泵的转速为 2900/min

- Configuration of "ABB" brand three-phase AC motor is in accordance with the International Electrotechnical Commission IEC60034, IEC60072 standard design comply with European "CE" marking requirements
- The explosion-proof motor also available, that can meet with the requirement of different applications.
- It with excellent electric performance, and with low noise, low vibration, the protection grade is IP55, insulation grade is F.
- Operate involtage:
≤ 3Kw, 220-240V/380-420V, Δ/Y
> 3Kw, 380-420V/660-690V, Δ/Y
- frequency: 50Hz/60Hz
- working method: continuous (SI)
- rotate speed: the standard rotate speed is 2900/min

卫生级负压泵型号说明 Sanitary Vacuum Pump Model Description

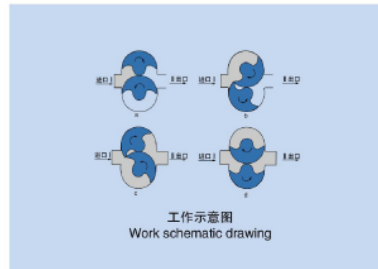
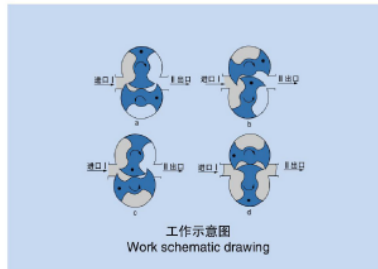
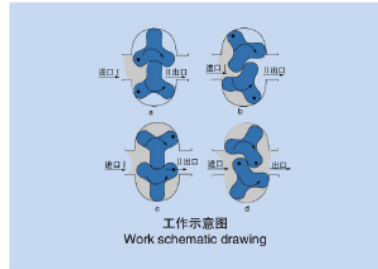


尺寸 (mm)	技术参数说明 Technical data									
	功率 (kw)									
	0.75	1.1	1.5	2.2	3.0	4.0	5.5	7.5	11	15
A	325	325	325	325	380	380	430	430	570	570
B	225	225	225	225	275	275	325	325	390	390
C	125	125	140	140	160	160	210	210	356	356
D	205	205	205	205	240	240	282	282	385	385
E	109	109	109	109	114	114	114	114	121	121
F	67	67	67	67	76	76	76	76	104	104
G	162	162	162	162	178.5	178.5	178.5	178.5	204.5	207.5
H	273	273	273	273	300	300	297	297	390	390
I	85	85	85	85	115	115	155	155	145	145
J	155	155	155	155	170	170	185	185	245	245
K	320	320	320	320	385	385	455	455	555	555

选型表 Selection table									
型号	3T/16M	3T/30M	5T/24M	5T/30M	10T/24M	10T/36M	10T/50M	15T/24M	
功率 (kw)	0.75	2.2	1.5	3.0	2.2	3.0	5.5	3.0	
进/出口 (mm)	38/32	38/38	38/38	38/38	51/38	51/51	51/51	51/51	

型号	20T/24M	20T/36M	30T/24M	30T/36M	40T/24M	50T/40M	60T/24M	60T/40M
功率 (kw)	4.0	5.5	5.5	7.5	7.5	11.0	11.0	15.0
进/出口 (mm)	51/51	51/51	51/51	63/51	63/51	89/63	89/63	89/89

Hygienic Lobe Pump (Rotor Pump) 卫生级凸轮泵 (转子泵)



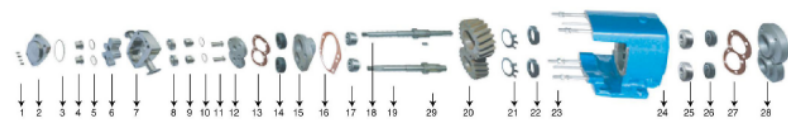
工作原理 Operation Principle

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,介质即被输送至出口。如此循环往复,介质(物料)即被源源不断地输送出。

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→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.

II

转子泵结构图 Rotor Pump Configuration



1.螺帽 2.泵盖 3.密封圈 4.拼帽 5.密封圈 6.转子 7.泵腔 8.机械密封(静环) 9.机械密封(动环) 10.轴套 11.轴承盖 12.轴承盖 13.密封圈垫 14.橡胶油封 15.轴承座 16.密封圈垫 17.轴承 18.上主轴 19.下主轴 20.斜齿轮 21.止退垫圈 22.拼帽 23.螺杆 24.泵主体 25.轴承 26.橡胶油封 27.密封圈 28.轴承盖 29.销子

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.Lower shaft 20.Helical gear 21.Stop washer 22.Cap 23.Screw 24.Pump body 25.Bearing 26.Rubber oil seal 27.Seal gasket 28.Bearing cover 29.Pin

应用范围 Applications

- 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、调味剂、水果馅、甜味剂、酵母、调味佐料、面包糕点、肉糜、碎肉、肉油、食用油、糖浆、糖浆、稀奶油、巧克力等。
- 日用化工: 面霜乳液、发型凝胶、染发剂、香油、牙膏、洗涤剂、洗发精、鞋油、化妆品、香精、肥皂、香脂等。
- 制药工业: 各型丸剂、乳化剂、糖浆、营养液、中药、膏状药剂、生物制品、鱼肝油、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、润滑油、石油剂、乳化剂、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。

- 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, 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, Corrosion And Water Proof Coating, Ceramic Coating, Paint Coating, Ceramic Glazing, Etc.
- Other Industries: Plastic Industry, Textile Industry, Papermaking Industry, Coal Flotation Agent, Nanometer Material, Biochemical Industry, Etc.

Hygienic Lobe Pump (Rotor Pump) 卫生级凸轮泵 (转子泵)



法兰料斗进口转子泵
Lobe Pump with Flange hopper



内置式安全阀转子泵
Lobe Pump with Built-in Safety Valve



变频调速型转子泵
Frequency Controlling Rotor Pump



无极调速型转子泵
Step-Less Variator Rotor Pump



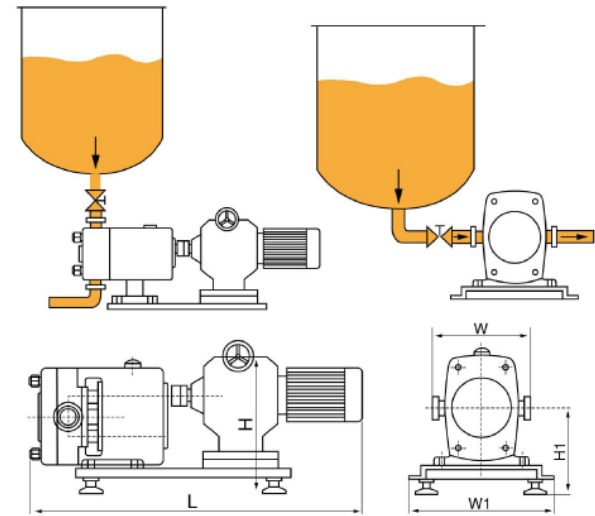
馅料输送转子泵(上下型)
Stuffing product feeding rotor pump(top in bottom out)



移动式转子泵
Movable Rotor Pump

转子泵安装示意图

Rotor Pump Installation Instruction



技术参数

Main Parameter

产品型号 Model	每百转排量 (L) Flow per 100 Rotation	建议调整范围 (RPM) Suggested rotation speed	V 对应容量 (L-H) Capacity	电机功率 (kW) Power
ZB3A-3	3	200-500	300-800	0.55
ZB3A-6	6	200-500	650-1600	0.75
ZB3A-8	8	200-500	850-2160	1.5
ZB3A-12	12	200-500	1300-3200	2.2
ZB3A-20	20	200-500	2100-5400	3
ZB3A-30	30	200-400	3200-6400	4
ZB3A-36	36	200-400	3800-7600	4
ZB3A-52	52	200-400	5600-11000	5.5
ZB3A-66	66	200-400	7100-14000	7.5
ZB3A-78	78	200-400	9000-18000	7.5
ZB3A-100	100	200-400	10000-22000	11
ZB3A-135	135	200-400	15000-30000	15
ZB3A-160	160	200-400	17000-34000	18.5
ZB3A-200	200	200-400	21600-43000	22

TRH Intermittent/Bottom-Mounted High Shear Dispersing Homogenizer

TRH 间歇式 / 高剪切分散乳化机



工作原理 Operation Principle

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不相溶的。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流体剪切、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量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。

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.

管线式高剪切分散乳化机的优点 Advantages of Pipeline High Shear Dispersing Emulsifier

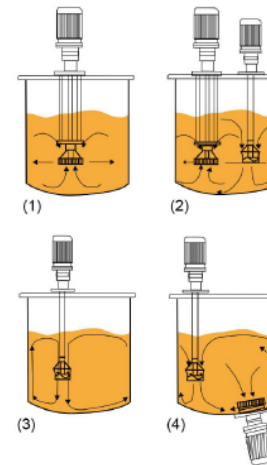
- 处理量大，适合工业化在线连续生产
- 粒径分布范围窄，均匀度高
- 省时、高效、节约能耗
- 噪音低，运转平稳
- 消除批次间生产的品质差异
- 无死角，物料100%通过分散剪切
- 具有短距离，低扬程输送功能
- 使用简单，维修方便
- 可实现自动化控制

- 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



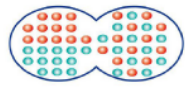
技术参数 Main Parameter

产品型号 Model	电机功率 (KW) Power	转速 (RPM) Rotation speed	处理量 & Handling Capacity
TRH90	1.5	2800	5-50
TRH100	2.2		50-100
TRH120	4		100-300
TRH140	7.5		200-800
TRH160	11		300-1000
TRH180	18.5	1470	500-1500
TRH200	22		800-2000
TRH220	30		1000-3000
TRH240	37		1500-5000
TRH270	55		2000-8000
TRH290	75	3000-10000	



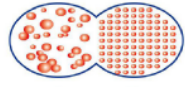
注：表中处理范围是指介质为“水”时测定的数据
如介质粘度或稠度较高，建议与管线式高剪切分散乳化机配合使用。
如有高温、高压易燃、易爆、腐蚀性等工况，必须明确提供相关准确的参数，以便正确选型定制。
本表数据如有更改，恕不另行通知，正确参数以提供的实物为准。
Note: the flow in the table refers to the data tested taking water as the medium.
If the medium has high viscosity or consistency, please use pipeline high shear dispersing 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.

TRH Intermittent/Bottom-Mounted High Shear Dispersing Homogenizer TRH 间歇式 / 高剪切分散乳化机



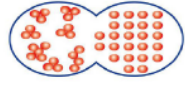
混合 Mixing:

糖浆、糖浆、洗涤剂、果汁浓缩液、酸奶、甜点、混合奶制品、油醋、酱釉



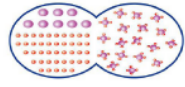
均质 Homogenizing:

药乳液、药膏、雪花膏、面膜、面霜、组织匀浆、奶制品均质、果汁、打印墨水、果酱



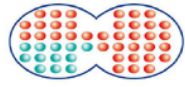
分散 Dispersing:

悬浮液、药丸包衣、药物解聚、涂料分散、唇膏、蔬菜浓汤、芥末混合物、催化剂、消光剂、金属、颜料、改性沥青、纳米材料的制备和解聚。



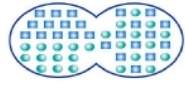
乳化 Emulsifying:

药乳液、药膏、雪花膏、面膜、面霜、乳化香精、油水乳化、乳化沥青、树脂乳化、化纤、黏胶、橡胶、水性聚氨酯乳化、农药



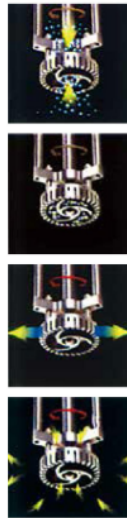
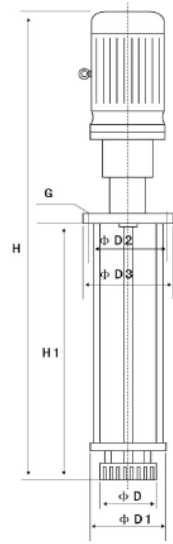
反应 Reacing:

高效萃取、加氢反应、皂化反应、磺化反应、TDI、MDI、微球反应等



固液混合 Powder/liquid mixing:

气相硅、二氧化硅、白炭黑、钛白粉、膨润土、滑石粉、CMC、黄胶原、糖粉粉

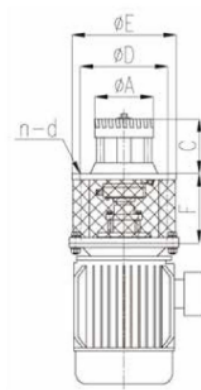


外形尺寸

Shape Size

型号 Model	D	D1	H1	D2	D3	H	G
TRH90	90	167	550	195	220	960	4 × 12.5
TRH100	100	167	650	195	220	1100	4 × 12.5
TRH120	120	195	750	225	255	1250	6 × 12.5
TRH140	142	220	850	225	285	1450	8 × 12.5
TRH160	167	225	850	290	325	1620	8 × 12.5
TRH180	180	275	1200	310	350	1980	8 × 12.5
TRH200	200	275	1200	310	350	2000	8 × 12.5
TRH220	220	300	1300	340	380	2200	10 × 14.5
TRH240	240	320	1400	360	415	2300	12 × 14.5
TRH270	270	350	1600	400	450	2600	12 × 16.5
TRH290	290	370	1600	430	500	2650	12 × 16.5

TRD-Bottom-Mounted Intermittent High Shear Dispersing Homogenizer TRD-罐底间歇式高剪切分散乳化机



选型表

Shape Size

型号	功率 (kW)	转速 (rpm)	A	C	D	E	F	n-d	适用容积 (L)
TRD-90	1.5	2900	105	100	170	205	/	6-M12	5-50
TRD-100	2.2	2900	120	150	210	250	168	8-M16	30-100
TRD-120	4	2900	140	150	235	285	190	8-M20	100-300
TRD-140	7.5	2900	160	150	280	320	190	8-M20	200-1000
TRD-160	11	2900	180	160	320	370	200	8-M20	300-2000
TRD-180	18.5	2900	180	180	320	370	240	8-M20	800-3000
TRD-200	22	2900	220	180	350	395	240	8-M20	800-4000
TRD-220	30	2900/1470	280	190	550	595	300	16-M20	1000-5000
TRD-240	37	2900/1470	280	190	550	595	300	16-M20	1500-6000

注：* 表中上限处理量是指介质为“水”时测定的数据；

- * 如介质粘度或固含量较高，建议与管式高剪切分散乳化机配合使用；
- * 如有高温、高压、易燃易爆、腐蚀等特殊工况时，须提供详细准确的参数；
- * 本表数据如有更改，恕不另行通知，正确参数以提供实物为准。

- * Limit the amount of the table refers to the process medium "water" measurement data;
- * Such as higher medium viscosity or solid content, advice and pipelined high shear dispersing emulsifier used in conjunction;
- * When subject to high temperature, high pressure, flammable, corrosive and other special conditions, to provide detailed and accurate parameters;
- * Data in this table are subject to change without notice, provided the correct parameters to prevail in kind.

Mixing Pump 混合泵



应用

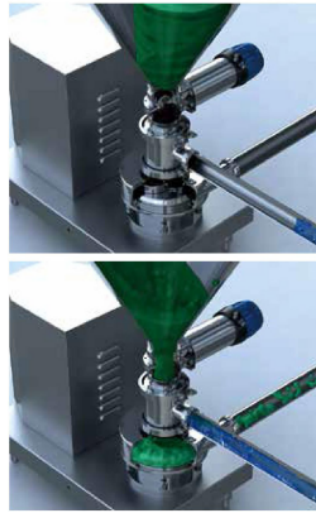
- 该混合器是用于将固体混合到液体中。
- 在食品加工业中，该混合器为奶粉的配制，糖浆的制作，盐水的调制等提供了在线处理完美的解决办法。
- 在制药，化妆品和化学制品行业中，它也可以用于制备固体和液体的混合。

材质

- 与物料接触部位: AISI-316L, AISI-304
- 垫圈 (标准): EPDM根据FDA
- 机械密封圈 (标准): C/ St.St/ EPDM
- 内表面处理: 镜面抛光Ra \leq 0.8 μ m
- 外表面处理: 镜面抛光

设计和特点

- 简单和垂直的装配可以快速均匀的混合各种固体，而不会和空气接触完全混合带物料的再流通在一些应用中，它可以成一直线的使用，无需再流通。
- 根据3A卫生标准设计
- 通过卡箍连接可以简单装配和拆卸
- 不用拆卸就可以进行清洗
- 卫生单机械密封圈



Applications

- The Mixers are used to mix solids in liquids.
- In the food-processing industry, they provide a perfect solution for reconstituting powdered milk, making syrups, preparing brines, etc.
- They can also be a solution for preparing solid-liquid mixtures in the pharmaceutical, cosmetics and chemical industries.

Materials

- Parts in contact with the media: AISI-316L
- Gaskets (standard): EPDM according to FDA
- Mechanical seal (standard): C/ St.St/ EPDM
- Inside finish: mirror polished, Ra \leq 0.8 μ m
- Outside finish: mirror polished

Design and features

- Simple and versatile assembly for quick and homogeneous mixing of a great variety of solids without contact with the air. Complete mixing with recirculation of the material. In some applications, it can be used in line, without recirculation.
- 3A Sanitary design.
- Easy assembly and disassembly by Clamp connections.
- Cleaning can be carried out without disassembling the unit.
- Sanitary single mechanical seal

工作原理

Operation Principle

- 该混合器最基本包括外套和一个垂直安装的离心泵叶轮。吸入侧边有一个料斗和管道，用于将固体进口和液体分离开来，从而避免了在物料进入外套之前就形成絮状物。
- 液体以高速度进入混合腔，因此在叶轮的旋转中心产生了真空，从而吸入了固体。固体的进入方式可以通过安装在加料斗下面的阀门来进行控制。
- 在混合器吸入和排出的侧边保持低压非常重要。避免气穴现象。因此，只有当应用确实需要时，才提供输送泵（大量的压力会降低吸入固体，高粘度物料等），请一定要记住，吸入容量会减少。
- 当出口压力很高时，需要安装一个离心泵来排灌混合器的侧边。
- 当黏性超过500cP时，输送泵和排灌泵必须是正位移泵（转子泵）。

- The mixer basically consists of a casing and a centrifugal pump impeller which are mounted vertically. The suction side has a double-wall tube that keeps the inlet of solids separate from that of liquids, thus avoiding the formation of flocs before the material enters the casing.
- The liquid enters the mixing chamber at a high velocity, thereby creating a vacuum on the center of the impeller, which causes the suction of the solids. The fall of the solids can be regulated by means of a valve situated at the bottom of the hopper.
- It is important to keep low pressure at the suction and at the discharge sides of the blender. Avoid cavitation. Thus a feeding pump must be provided only for the applications that really require it (considerable pressure drops at the suction side, high viscosity products, etc.), please, keep in mind that the suction capacity will decrease.
- When discharge pressure is high, a centrifugal pump needs to be fitted to the discharge side of the blender.
- For viscosities above 500 CP, the feeding pump and the discharge pump must be positive displacement pumps.

选项

Options

- 可冲洗双重冷却机械密封
- 连接: DIN, SMS, 3A
- 气动阀门
- 60° 加料斗
- 混合室内筛子
- 排灌装置
- Dual cooled seal.
- Connections: DIN, SMS.
- Pneumatic actuator valve.
- 60° hopper.
- Screen in the mixing chamber.
- Drainage.



Mixing Pump 混合泵

应用

Applications

- 配制糖浆、山梨醇、葡萄糖、乳糖和混合物
- 配制奶粉
- 溶解可可粉或糖于牛奶中
- 配制奶茶
- 配制面粉和淀粉浆
- 配制盐水
- 预混酸奶粉和其他乳制品
- 溶解班胶土用于酒过滤
- 溶解酪蛋白和奶酪制作工业中的酪蛋白
- 配制杀虫剂和肥料

- Preparation of sugar syrup, sorbitol, glucose, lactose and derivatives
- Reconstitution of powdered milk
- Dissolution of cocoa and/or sugar in milk
- Reconstitution of powdered whey
- Preparation of flour and starch slurries
- Preparation of brines
- Pre-mixtures of yogurt and other milk-based desserts
- Dissolution of bentonites for wine filtering
- Dissolution of casein and caseinates in the cheese-making industry
- Preparation of pesticides and fertilizers.



典型应用1 Typical Application 1

- 能够实现对各种粉类制品的快速溶解，主要处理固形物含量不超过15%的溶液的制作。通常使用在奶粉，果胶，添加剂，蔗糖等物料的快速溶解过程中。
- Can be achieved on fast-dissolving of a variety of powder product, dealing mainly with the solution which with solid content not more than 15%. Usually used in the rapid dissolution process of milk powder, pectin, additives, sugar and other materials.



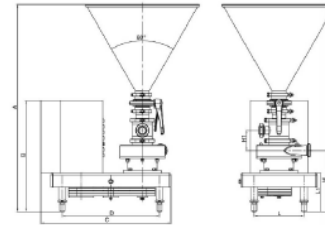
典型应用2 Typical Application 2

- 在料液混合机与配料罐间增加了一台离心泵的目的是为了给料液混合机供料，这种配置能够处理固形物含量比较大的溶液，通过离心泵产生的高速液体加速干粉的溶解效果。多应用在最终溶液中固形物含量在25%以下的溶液的处理中。
- Increasing a centrifugal pump between Mixer and make-up tank is in order to feed mixer expected, this configuration can handle relatively high solid content of solution, high-speed liquid through the centrifugal accelerates solution processing of dry powder. Mainly used in the processing of final solution with solids content of 25% or less.



典型应用3 Typical Application 3

- 这个系统中配备了2台转子泵，转子泵在输送含有粘度的物料过程中具有比较大的优势，并且具有比较高的压力，这个系统是专门为处理混合高固形物含量的溶液而设计的，特别是在处理固形物含量达到50%以上的溶液的混合处理中具体很好的应用。
- This system is equipped with two sets of rotor pumps; rotor pump has a relatively large advantage in the process of delivery of materials containing the viscosity, and has a relatively high pressure. This system is designed to handle high solids content of mixed solution, especially perfect in dealing with the solution with solids content of 50% or more.



物料混合泵(物料混合器)选型表

Mixing Pump(Blender) Selection table

型号 Model	流量(吨) Flow rate (T)	功率(kw) Power	固体进口 Solid Inlet size	液体进口 Liquid Inlet size	出口 Outlet	加料斗容量 Hepper volume	固体吸入量 Solid suction volume	连接方式 Connection way
HHB-10	10	3.0	DN65-3"	DN40-1.5"	DN50-2"	45 升	2000kg/h	卡箍 螺纹 Clamp,Thread
HHB-20	20	4.0	DN65-3"	DN40-1.5"	DN50-2"	45 升	3000kg/h	卡箍 螺纹 Clamp,Thread
HHB-30	30	5.5	DN80-35"	DN50-2"	DN85-2.5"	45 升	4200kg/h	卡箍 螺纹 Clamp,Thread
HHB-40	40	7.5	DN80-35"	DN50-2"	DN85-2.5"	45 升	5500kg/h	卡箍 螺纹 Clamp,Thread
HHB-50	50	11.0	DN100-4"	2.5"	DN80-3"	65 升	7000kg/h	卡箍 螺纹 Clamp,Thread

注意：详细选型详见选型表；以下表格里的尺寸为参考值，实际尺寸以实物为准。
Attention: Please refer to selection table for details of next page. The size in the following form is the reference value, the actual size is according to practicality.

Size	A	B	C	D	H	H1	L	L1
HHB-10	1083	582	682	630	320	105	400	20
HHB-20	1083	582	682	630	320	105	400	202
HHB-30	1135	650	793	770	360	121	420	220
HHB-40	1135	650	793	770	360	121	420	220
HHB-50	1183	635	932	870	400	125	470	220

物料混合泵型号说明

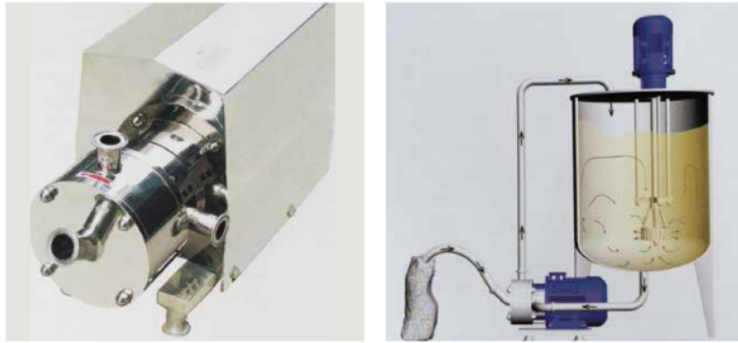
Model Instruction Of Mixing Pump

HHQ 10 10t 3kw 380V 50Hz M D

接口标准: DIN(D) SMS(S) 3A(A) RJT(R) ISO(IDF(I))
Connection standard: DIN(D) SMS(S) 3A(A) RJT(R) ISO(IDF(I))
连接方式: 螺纹(M) 卡箍(C)
Connection way: Thread(M), Clamp(C)
电机频率: 50HZ/60HZ
Motor frequency: 50HZ/60HZ
电压: 110V 220V 380V (详见选型表)
Voltage: 110V 220V 380V
电机功率: 1.1Kw 1.5Kw 2.2Kw.....
Motor power: 1.1Kw 1.5Kw 2.2Kw.....
流量(详见选型表)
Flow(Refer to selection table)
型号
Model
泵代码
Pump code

例:HHQ-10-10t-3Kw-380V-50HZ-M-D
Sample:HHQ-10-10t-3Kw-380V-50HZ-M-D

Online Powder Suction Type Dispersing Emulsifier 在线吸粉式分散乳化机



在线吸粉生产型

On-Line Powder-Suction Production Type

- 在线吸粉避免粉尘污染，使固液高效分散、乳化、溶解工作变的简单易行。
- 选材精良，噪音更低，运行更平稳，确保整机的高品质；
- 对物料无污染，模块组合，是医药、食品、化妆品高洁净要求更理想的选择；
- 结构合理，清洗拆装方便；
- 适用于常压、真空、压力工况；
- 可选择机械密封：单端面、双端面；
- 适用温度：≤ 160℃（更高温度可定制）
- 电机：防爆或者普通（供选）
- 材质：304 或者 316L（供选）

- Low suction line to avoid dust pollution, high efficiency solid-liquid dispersion, emulsification, dissolution of the work becomes easy.
- Excellent selection, lower noise, run more smoothly, ensuring high quality of the machine;
- For non-polluting materials, module combination, pharmaceutical, food, cosmetics high purity require more thought choice;
- Reasonable structure, easy assembly and disassembly cleaning;
- Applied pressure, vacuum and pressure conditions;
- Optional mechanical seal: single face, double face;
- Suitable temperature: ≤ 160 °C (higher temperatures can be customized)
- Motor: riot or ordinary (for the election)
- Material: 304 or 316L (for the election)

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技术参数表

Technical Parameters

型号	功率 (Kw)	转速 (rpm)	流量 (m ³ /h)	出口压力 (Mpa)	筒/液 进口	出口
BOXR-120	4	2900	12	0.08	Φ32	Φ50
BOXR-140	7.5	2900	18	0.1	Φ40	Φ63
BOXR-165	15	2900	25	0.15	Φ50	Φ76
BOXR-200	35	2900	50	0.2	Φ63	Φ89
BOXR-260	75	2900	80	0.35	Φ76	Φ102

- 处理流量取决于物料的粘稠度和最终产品品质要求；
- 具有短程送料能力，无自吸功能，须选用高位送料；物料黏度或固含量高导致不能正常进料和输时，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。
- 如您选型遇到疑问，请电询公司，由专业销售工程师为您推荐。
- 注：混合能力：30-150kg（粉料）/min
- 测定工况：介质为 20℃ 水，物料的粘稠度及浓度变化使得流量人产生变化，相对功率也会产生变化。
- Processing flow depends on the viscosity of the material and final product quality requirements;
- Feeding capacity with short, non-self-priming capabilities are required to use the high feed; material viscosity or high solids content can not lead a normal feeding time and lose, are required to use pressure or transporting feed pump, pump pressure and flow with the selected models match.
- If you encounter selection questions, please call consultation companies, professional sales engineers to recommend.
- Note: Mixed capacity :30-150kg (powder) / min
- Measurement conditions: 20 °C medium is water, viscosity and density of material changes in the flow of people making a difference, relative power will make a difference.



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TRL 2 High Efficient Online Mixer System

TRL 2 型高效乳化均质配料机

工作原理 Operation Principle

TRL 2 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，得到均匀且可稳定产品的生产结果。

功能特性 Features

- 具备混合、搅拌、分散、均质、乳化、匀浆等多种功能，通用性强；
- 生产稳定均匀，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。
- 无磨损、无颗粒、无团块聚集物形成。
- 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。
- 纸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。
- 特别适用于高粘度、难溶解的物料（黏度可达 90, 000mPas）；
- 设备无死角，可完全在线 CIP，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，易于与其他系统集成，节约投资。



TRL 2 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.

- Have mixed, stirring, decentralization, 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, 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 Specification Data

型号 Model	处理量 (T-H) Handling Capacity	乳化合功率 Power of in-line mixer	自吸泵功率 Power of self-priming pump	转速 (r-min) Rotation speed
TRL 2-140	0.1-4	4	2.2	2800-1400
TRL 2-165	0.3-6	7.5	4	2800-1400
TRL 2-180	1-10	11	5.5	2800-1400
TRL 2-200	2-12	18	5.5	2800-1400
TRL 2-230	2-15	30	7.5	2800-1400

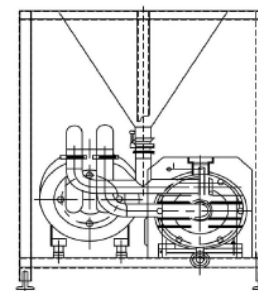
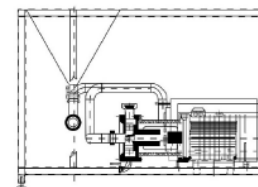
系统组合 System Portfolio

- 系统工作台：根据不同的应用要求，选择 SUS304 或 316L 不锈钢制造。整个设备系统相对密闭，清洁，卫生，安全，美观，操作方便；
- 干粉加料器：为 V 型干粉固体加料口，带有可调节的卫生阀门。可以选择手动或气动控制；
- 控制阀：是调节系统的必须部分，同时可调节系统的流量和流速。
- 视镜：（选择安装）：为操作者观察整个系统工作状态提供方便和直观的指示。
- 系统排空系统（根据客户要求选择安装）：可用于清洗，排空和取样。
- 高效混合机：是系统功能的核心部件，巧妙设计的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。它们彼此间以极高的相对速度高速旋转，但彼此并不直接接触，没有磨损。外形结构借鉴卫生离心泵的结构，泵轴，机械密封，密封圈等均为进口；转子，定子，腔体均为整体铸件不锈钢经过高精度的数控加工中心加工而成；系统健壮，稳固，高效，安全可靠。
- 高效动力机：动力强劲的液环真空动力系统是系统的必要部分，保证系统工作高效，快速，稳定，动力强劲，安全可靠。吸力强大的卫生液环真空自吸系统为整个混料机系统提供输送力，为固体物料提供动力。采用不锈钢机械密封，坚固耐用，稳定可靠。
- 安全保护系统：系统配备有不锈钢双过滤保护系统，确保没有任何的金属固体颗粒（螺母，焊渣，金属片，砂石等）对系统的破坏。
- 操作系统：操作系统设计合理，单按钮启动停止操作，故障分别指示。操作简单，维护方便。操作系统具有防过载，防短路，防缺相和防止误操作的联锁互动等保护功能。根据客户要求，可以配备全自动操作系统。

应用领域 Application

- 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，芥末酱；
- 乳品：均质发酵的乳产品：优酪乳，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，凝胶膏乳剂；
- 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，破乳分散；染料涂料
- 均质生产 PVC 增塑剂；各种乳状剂，感光乳剂，助剂等等
- 石化工业：乳化沥青；改性沥青；柴油乳化；柴油乳化；润滑油；硅油乳剂。
- 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 chassa, 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
- Homogeneous production of PVC plasticizers: all kinds of emulsion agent, photographic emulsion, additives, etc.
- Petrochemical Industry: emulsified asphalt; modified asphalt; heavy oil emulsified diesel emulsion; lubricants; silicone oil emulsion.

- Table system: according to different application requirements, select SUS304 or 316 L stainless steel manufacturing. The relatively closed system equipment, cleaning, sanitation, safety, aesthetics, easy to operate;
- Dry powder feeder: 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;
- Efficient power machine: the powerful Central vacuum of power system is an essential part of system to ensure that systems work efficiently, fast, stable, powerful, safe and reliable. Health of the powerful suction ring true blank suction system for the whole mixer conveyor system, and provide the impetus for solid materials. Sealed in stainless steel machinery, Kennedy-durable, stable and reliable.
- Security systems: systems are equipped with stainless steel double-filter protection systems to ensure that the metal to avoid any solid particles (Lo Salm, welding slag, metal, gravel, etc.) on the system damage.
- Operating system: the operating system designed, single-stop button to launch the operation, were instructed fault. Simple, easy maintenance. Operating system with anti-fertility overload, short-and anti-shortage-and to prevent misuse of the parade, such as interactive chain protection. According to customer needs, can be equipped with automatic operating system.



Manhole
人孔



圆型压力人孔
Round Outward Manway With Pressure



圆型常压人孔
Round Outward Manway



圆型带视镜压力人孔
Round Outward Manway With Sight Glass



双臂方型人孔
Rectangular Manway With Two Intersectant Arms



圆型常压视镜人孔
Round Manway With Sight Glass



内开式椭圆人孔
Oval Inward Manway



单臂方型人孔
Rectangular Manway With One Intersectant Arms



罐顶安全卫生组件
Tank-top Safety Sanitary Assembly



圆型常压人孔(上部密封)
Round Outward Manway (Upper Seal)



内开式带斜边椭圆人孔
Oval Inward Manway with Bevel Edge