

Wenzhou Qiangzhong Machinery Technology Co.,Ltd.

QiangZhong Technology is Committed to a China's professional provider of dairy, food, beverage, daily chemical, agrochemical, bio-pharmaceutical, etc. industries.

HOMOGENIZATION EMULSIFICATION PUMP

The emulsification pump is composed of a stator and a rotor, and is used for emulsification and homogenization of continuous online production. The processed materials will be dispersed, sheared, refined, crushed, emulsified, mixed, homogenized, etc. step by step through 4-8 layers of rotors and stators. Compared with the traditional production process, the pump is simpler, more convenient and optimized, which improves the production efficiency and the quality of the processed materials. It is mainly used in various industrial fields such as food, beverages, pharmaceuticals, health care, fine chemicals, coatings, pesticides, daily chemical washing, and paper.



Emulsification Pump



Single-stage Emulsification Pump



New Tri-stage Emulsification Pump



Powder-liquid Mixer with Platform



High-efficient Emulsifying and Batching Machine



Shearing Water-powder Mixer



Mobile Homogenizing Pump with Hopper



Powder Liquid Mixer



Powder Liquid Mixer

Blending Separate Emulsification Homogenization Transport

The pump is a mixed fine emulsification pump, and its main working parts are the stator and the rotor. Under the action of the centrifugal force and fluid force of the rapid rotation of the rotor, the emulsification pump performs a combination of strong shearing, centrifugal extrusion, impact rupture, liquid layer friction, and uniform turbulence on the material, so as to make the immiscible solid phase, liquid phase and gas phase uniformly refined, dispersed and emulsified in an instant. After a reciprocating cycle, the original product reaches a stable and high-quality product.

Single-stage Emulsification Pump Technical Parameters:

Model No.	Motor Power (kw)	Motor Speed (m³/h)	Flow Range (r/min)	Inlet	Outlet
SRH-1-100	2.2	0-3	2900	DN40	DN32
SRH-1-130	4	0-4		DN40	DN32
SRH-1-140	5.5	0-5		DN50	DN40
SRH-1-165	7.5	0-8		DN50	DN40
SRH-1-180	11	0-12		DN65	DN50
SRH-1-190	15	0-20		DN65	DN50
SRH-1-200	22	0-25		DN65	DN50
SRH-1-210	30	0-35		DN80	DN65
SRH-1-230	45	0-50		DN100	DN80
SRH-1-245	55	0-75		DN100	DN80
SRH-1-260	75	0-90		DN125	DN100
SRH-1-275	90	0-110		DN125	DN100

Tri-stage Emulsification Pump Technical Parameters:

Model No.	Motor Power (kw)	Motor Speed (m³/h)	Flow Range (r/min)	Inlet	Outlet
SRH-3-60	4	0-4	2900	DN40	DN40
SRH-3-100	7.5	0-8		DN50	DN40
SRH-3-120	11	0-12		DN50	DN40
SRH-3-140	15	0-18		DN50	DN50
SRH-3-165	22	0-22		DN65	DN50
SRH-3-200	37	0-30		DN80	DN50
SRH-3-220	55	0-40		DN100	DN65
SRH-3-240	75	0-55		DN100	DN65

*The flow range in the table refers to the data measured when the medium is "water", and the outlet pressure of the model listed in the table is ≤0.2Mpa.

*If a cyclic process is adopted, it is recommended to be used in conjunction with a batch high-shear dispersing emulsifier.

*If there are working conditions such as high temperature, high pressure, flammable, explosive, corrosive, etc., relevant and accurate parameters must be clearly provided for correct selection and customization.

*For media with poor fluidity, it is recommended to use a pump with a matching flow rate at the inlet to transport, and the pumping pressure is ≤0.2Mpa.

Solutions for high-efficiency,dispersion,cut,refinement,smash, emulsification,mixing,homogenization,high purity

The emulsification pump can emulsify, homogenize, refine, disperse, crush and mix various complex ingredients such as stabilizers, thickeners, colloids, flavors, sugars and various additives. Its powerful mixing ability makes the material reach a high degree of consistency and improves the quality of the material.

Stator/Rotor Type:



Fine Teeth

Middle Teeth

Coarse Teeth

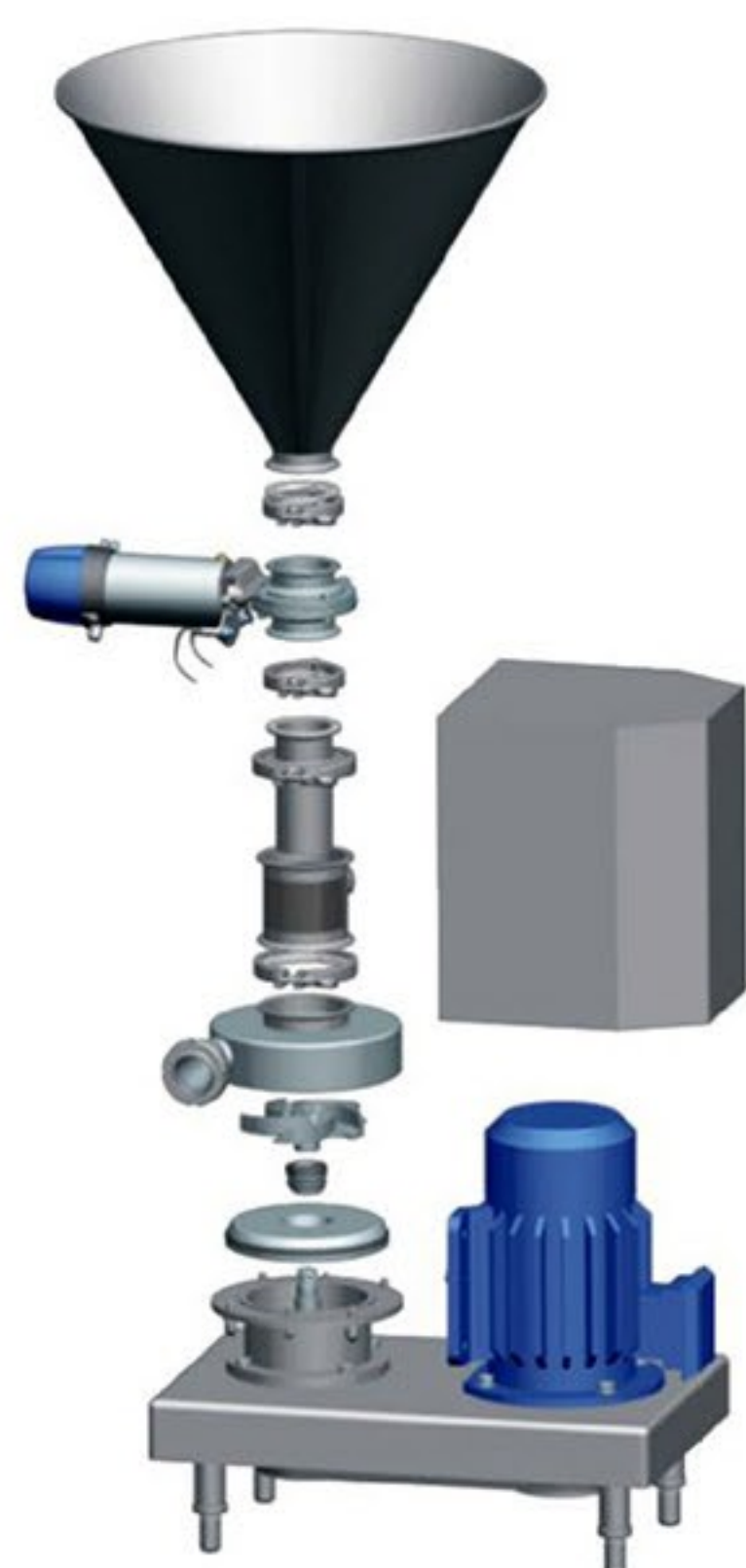


The emulsification pump adopts a specially designed high-speed rotor and stator combination. Under the drive of the motor, the rotor brings strong kinetic energy with extremely high line speed and high-frequency mechanical effect, which causes the material to be sheared, centrifugally squeezed, liquid layer rubbed, impacted and torn in the precise gap of the stator and the rotor. The combined effects of turbulence, etc., to achieve the effect of dispersion, grinding, emulsification.



Solutions for emulsifying,mixing,adjusting,muti-tasking,powder and liquid mixing

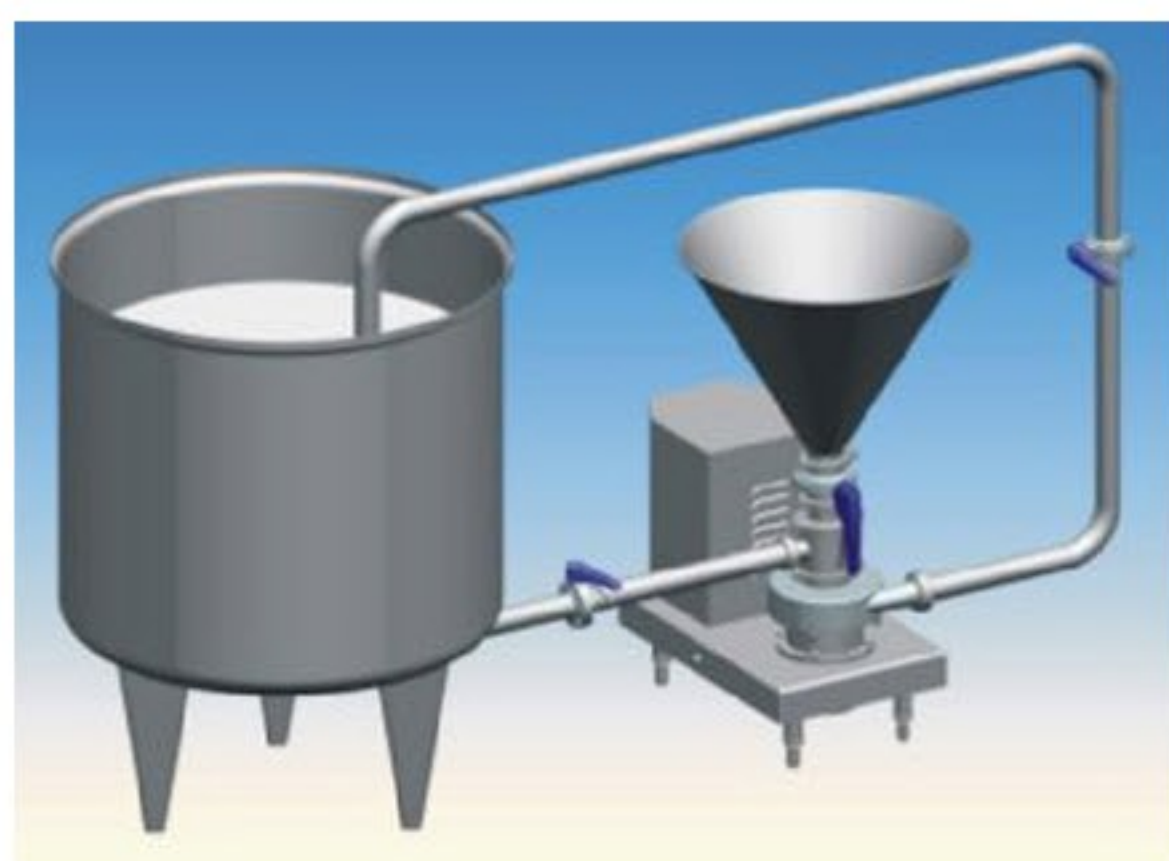
The water powder mixing pump is used to mix solids/powders into liquids. This mixer provides a perfect solution for the preparation of milk powder, the production of syrup, and the preparation of brine. It can also be used to prepare the mixing of solids and liquids, and is widely used in food and beverage, biopharmaceutical, preparation of Chinese medicine, cosmetics and chemical products.



Shearing Water-powder Mixer



Powder Liquid Mixer



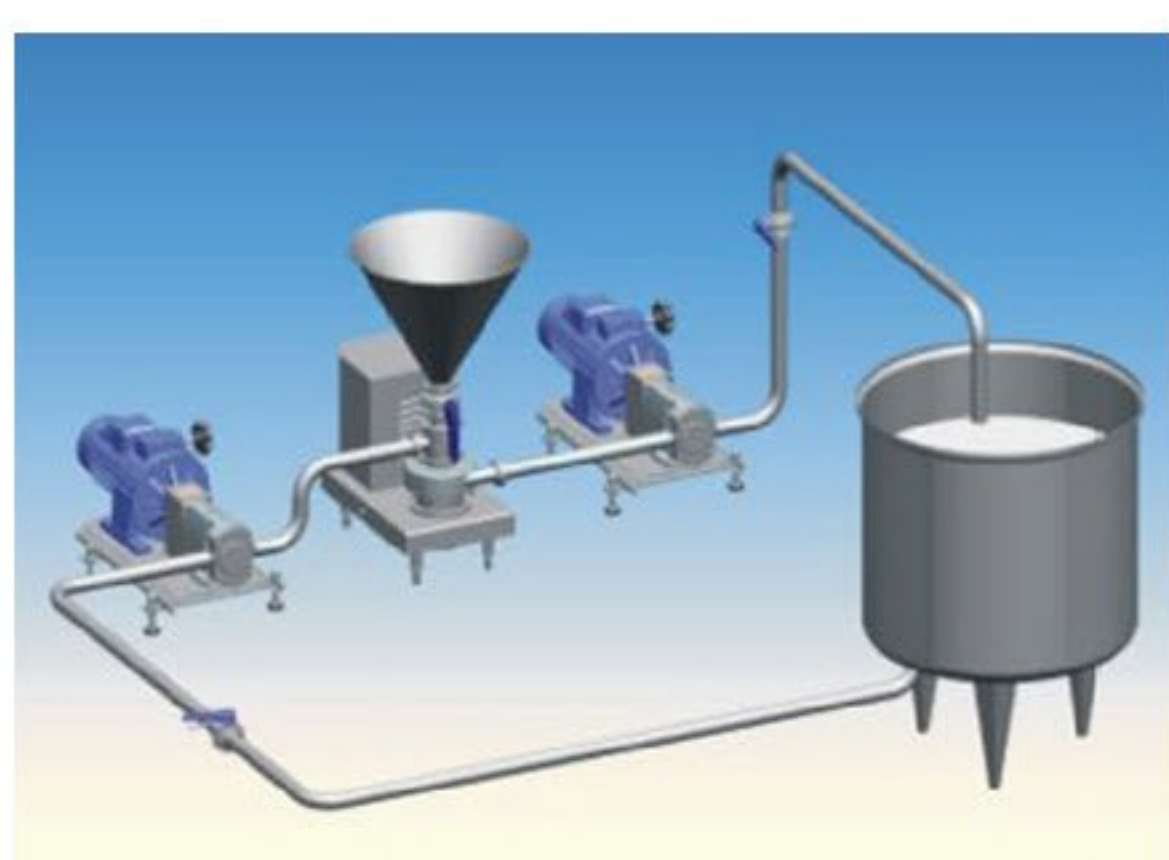
Typical Application 1:

Quickly dissolve a variety of powder products to produce a solution with a solids content of no more than 15%. It is commonly used in the rapid dissolution of milk powder, pectin, additives, sucrose and other materials.



Typical Application 2:

A centrifugal pump was added between the pump and the dosing tank to feed the pump. This system can process a solution with a relatively large solids content. The high-speed liquid produced by the centrifugal pump can accelerate the dissolution of the dry powder, and it is mostly used for the process of a solution having a solid content of 25% or less in the final solution.



Typical Application 3:

This system is equipped with two rotor pumps, cause the rotor pump has a greater advantage in conveying materials containing high viscosity, and has a relatively high pressure.

This system is designed to handle mixed high solids content solutions, especially solutions with solids content above 50%.

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