

PROVEG ENGINEERING AND FOOD PROCESSING PVT. LTD.

<https://provegengineering.in>



“We believe in judging our success by our ability to meet the expectations of our customers and Principal's and work with the aim of providing global technology with local support.”

About us

We are a professional business entity engaged in designing, engineering, manufacturing, supplying, erecting and commissioning of an array of vegetable and fruit processing pretreatment line, hot air dryers, vacuum freeze dryers, IQF, extruded food machineries, baked food machines, candy, chocolate machines, industrial mixers, nut and grain shelling, hulling , grading, sorting and cutting machines, packaging solution. Our expertise resides in turnkey plants which we can assemble at client's site with ease.

From humble beginnings in year 2006 as Techno Engineers & consultants, now at PROVEG we have emerged as a strong partner to our customers serving them with need based solutions at affordable prices while never compromising on the quality of our equipment

Headquartered in Pune, we have a local presence in Chennai. In addition, we have a well-equipped manufacturing & testing facility on the outskirts of pune to give our customers the opportunity to test and validate their products with our solutions. Our manufacturing facility is also the authorized unit for manufacturing Shakers from Key Technologies.

Our strengths

- End to end solutions for food processing
- Highly skilled after sale service support
- 15 years of experience in automation of various International & Regional snack food products.
- We provide full solution right from procurement up to delivery of equipment to your doorstep, commissioning, handovering and backing it with technical support for life long
- Fully automatic solution for our machines

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A) Industrial High Efficiency Mixers

1) Conical Ribbon Mixer (Model:VJ)

General

Conical Ribbon Mixer consists of a transmission device, taper cylinder, outer ribbon mixer, inner reverse screw mixer and discharge valve. It is a new design for viscosity material. The material circles and rises under the operation of the outer ribbon mixer, while the inner reverse screw presses down the material along the shaft, which finishes the mixing. With a long force arm and weak impact force, this equipment is suitable for the mixing and reaction of highly adhesive liquids with viscosity under 200, 000cp, such as paint, coating material and adhesive. It is particularly useful for the mixing of non-Newton fluids containing a lot of solid elements.

Standard Features

1. Volume: 100-3000L
2. Stainless Steel or Carbon Steel
3. Ribbon & Screw agitator for bottom discharge
4. Designed for normal temperature and normal atmospheric pressure
5. Feed Nozzle
6. Dust Nozzle
7. Manually operated or Pneumatic operated dislocated valve
8. Packing Seal
9. Safety limit switch on man hole

Optional Features

1. Carbon Steel, Stainless Steel 304, Stainless Steel 316L
2. Internal pressure
3. Sanitary type construction
4. Dislocated valve, butterfly valve, slide gate valve, ball valve
5. Horsepower to suit higher density materials
6. Explosion-proof motors
7. Controls such as variable frequency drives, motor starters and operator stations are available
8. Spray nozzles for liquid introduction
9. Jacket for heating or cooling

Technical parameter

	VJ	VJ	VJ	VJ	VJ	VJ	VJ	VJ
	0.1	0.3	0.5	1	1.5	2	2.5	3
Full volume(m ³)	0.1	0.3	0.5	1	1.5	2	2.5	3
Productivity(t/h)	0.1-0.4	0.3-1.2	0.5-2.1	1.5-4.2	2-6.3	2.5-8.4	4-10.5	5-12.6
Loading coefficient	0.7							
Material graininess	≥20							
Mixing evenness	Relation deviation <1.5							
Total power (kw)	1.5-2.2	3-5.5	4-7.5	7.5-11	11-15	15-18.5	18.5-22	18.5-22
Autorotation	80	80	80	60	63	68	78	78
Revolution	1468	1492	1622	1418	1552	1666	1778	1868
Working pressure	Micro- pressure							
Out-from dimension	708	990	1156	1600	1780	1948	2062	2175
Total height(H)	1420	1998	2268	2742	2580	2825	3020	3200
Central distance of support (D1)	648	910	1076	1500	1680	1848	1962	2075
Height harm support to buduct convert (H2)	150	180	180	275	275	275	275	275
Size of feed port(D3)mm	140	180	200	300	300	350	350	350
Size of discharge port (D2)mm	150	230	230	300	300	300	400	400
Bucket height (H1)	816	1120	1390	1747	2040	2316	1340	2522
Aperture of support (d)mm	18	180	18	22	22	22	22	22
Equipment weight(kg)	180	460	510	1020	1100	1270	1530	1780



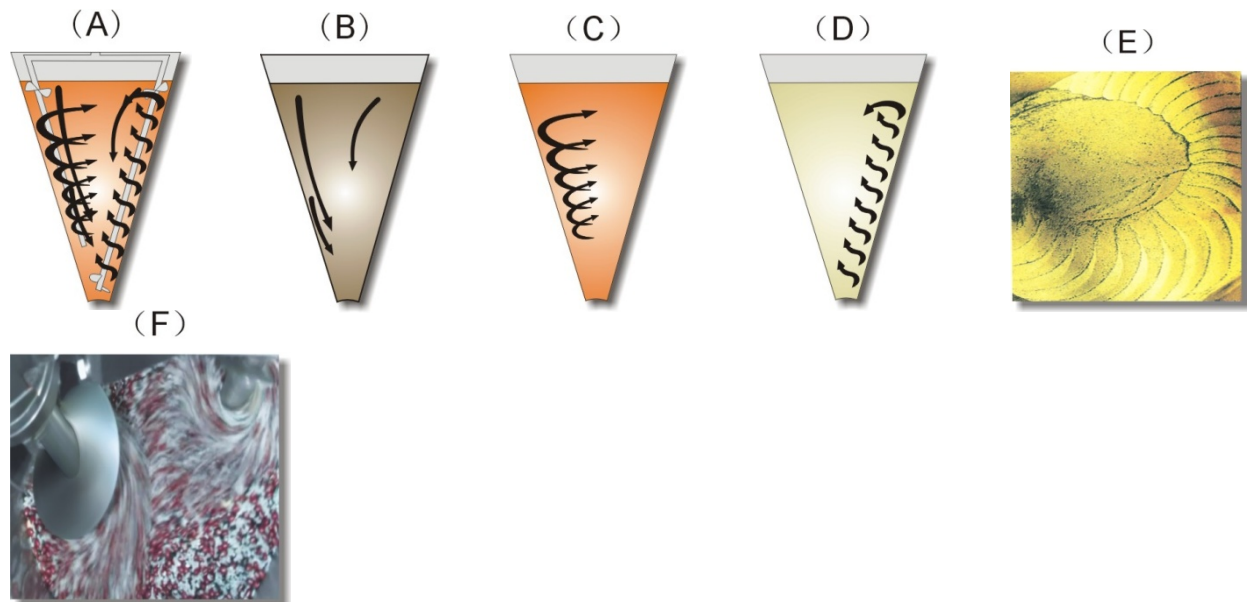
2) Conical Screw Mixer (Model : VSH-A)

General

This mixer is broadly applied for the solid-solid (powder to powder) and solid-liquid (powder to liquid) and liquid-liquid (liquid to liquid) mixings in food, pharmacy, chemical industry, fertilizer, oil field, oil refining, animal remedy, coating, pigment, dyestuff and assistant, metallurgy, smelting, fireproof material, mine, building material, battery, electronic plastic, fodder, cultivation, biological project, health product, ceramic, glass, new material, nuclear material etc. trades. This mixer is greatly suited with mixed materials, will produce no lamination and maceration phenomenon to the mixing combined with thermo-sensitive materials and holds a good suitability to the mixing of rough materials, fine grains and extra-fine powders etc. various grains, fibers or lamellate materials.

Working principle

The quick autorotation and revolution of the two non-symmetric spires of the mixer makes the material lifted upward to form two non-symmetric spiral material streams from the lower to the upper along with the bucket wall (see Fig. A and B). The revolution movement of the spire driven by the rotating arm makes the material outside of the spire enter the stud envelope line in various degrees, some is mal-positioned lifted and some is thrown out of the stud so as to get the material on the full circumferential orientation continuously renewed and dispersed, the two material streams lifted to the upper are gathered towards the central countersink to form one downward material stream, supplementing the cavity on the bottom so as to form a contra-flow cycle (See Fig. A, B, C, D,). Because of the compound of the above movements, the materials get quick evenly mixed and hold a higher mixing degree (see Fig. E, F).



Standard Features

1. Volume: 200-3000L
2. Stainless Steel or Carbon Steel
3. Ribbon & Screw agitator for bottom discharge
4. Designed for normal temperature and normal atmospheric pressure
5. Feed Nozzle
6. Dust Nozzle
7. Manually operated or Pneumatic operated dislocated valve
8. Packing Seal
9. Safety limit switch on man hole

Optional Features

1. Carbon Steel, Stainless Steel 304, Stainless Steel 316L
2. Internal pressure
3. Sanitary type construction
4. Dislocated valve, butterfly valve, slide gate valve, ball valve
5. Horsepower to suit higher density materials
6. Explosion-proof motors Controls such as variable frequency drives, motor starters and operator stations are available
7. Spray nozzles for liquid introduction
8. Jacket for heating or cooling

Technical parameter

	PVG- VSH	PVG- VSH	PVG- VSH	PVG- VSH	PVG- VSH	PVG- VSH	PVG- VSH	PVG - VSH	PVG - VSH
	0.2	0.3	0.5	0.8	1	1.51	2	2.5	3
Full volume	0.2	0.3	0.5	0.8	1	1.51	2	2.5	3
Productivity (t/h)	0.2-0.8	0.3-1	0.5- 1.5	0.8-2	1.5-3	2-4.5	2.5-6	4-7	5-7.5
Loading coefficient	0.6								
Material graininess	≥ 20								

Mixing evenness	Relation deviation < 1.5								
Total power(Kw)	2.57	2.57	3.55	4.55	4.55	6.25	6.25	9	9
Autorotation	143	143	143	57	57	57	57	57	57
Revolution	2								
Working pressure	Micro-pressure								
Out-from dimension	888	990	1156	1492	1600	1780	1948	2062	2175
Total height(H)	1557	1722	1991	2256	2432	2725	3001	3924	3207
Central distance of support(D1)	808	910	1156	1492	1600	1780	1948	2062	2175
Height harm support to be duct covert(H2)	180	180	180	275	275	275	275	275	275
Size of feed port(D3)mm	140	180	200	250	300	300	350	350	350
Size of discharge port(D2)mm	230	230	230	300	300	300	350	350	350
Bucket height(H1)	1010	1120	1390	1572	1747	2040	2316	2340	2522
Aperture of support(d)mm	18	18	18	22	22	22	22	22	22
Equipment weight(Kg)	500	550	600	950	1200	1350	1500	1800	2100



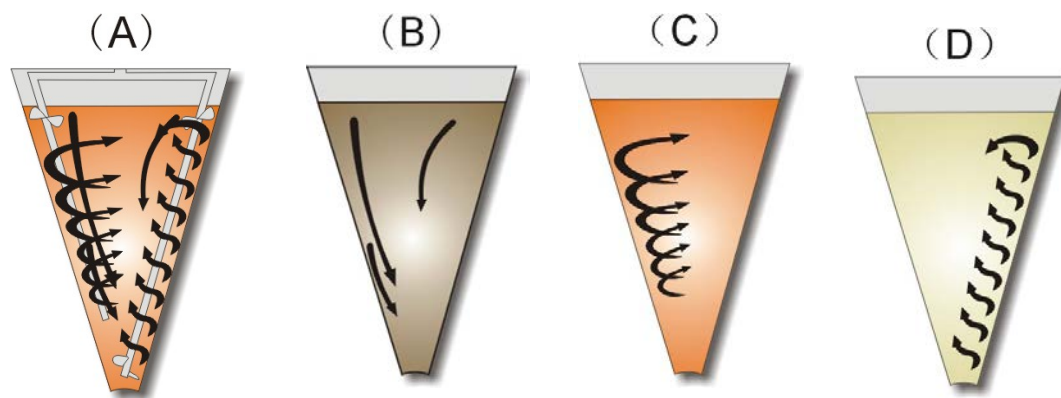
3) Conical Screw Mixer (Model : VSH-B)

General

This mixer is broadly applied for the solid-solid (powder to powder) and solid-liquid (powder to liquid) and liquid-liquid (liquid to liquid) mixings in food, pharmacy, chemical industry, fertilizer, oil field, oil refining, animal remedy, coating, pigment, dyestuff and assistant, metallurgy, smelting, fireproof material, mine, building material, battery, electronic plastic, fodder, cultivation, biological project, health product, ceramic, glass, new material, nuclear material etc. trades. This mixer is greatly suited with mixed materials, will produce no lamination and maceration phenomenon to the mixing combined with thermo-sensitive materials and holds a good suitability to the mixing of rough materials, fine grains and extra-fine powders etc. various grains, fibers or lamellate materials.

Working principle

The quick autorotation and revolution of the two non-symmetric spires of the mixer makes the material lifted upward to form two non-symmetric spiral material streams from the lower to the upper along with the bucket wall (see Fig. A and B). The revolution movement of the spire driven by the rotating arm makes the material outside of the spire enter the stud envelope line in various degrees, some is mal-positioned lifted and some is thrown out of the stud so as to get the material on the full circumferential orientation continuously renewed and dispersed, the two material streams lifted to the upper are gathered towards the central countersink to form one downward material stream, supplementing the cavity on the bottom so as to form a contra-flow cycle (See Fig. A, B, C, D,). Because of the compound of the above movements, the materials get quick evenly mixed and hold a higher mixing degree (see Fig. E, F)



Standard Features

1. Volume: 10-20000L
2. Stainless Steel or Carbon Steel
3. Screw agitator for center discharge
4. Designed for normal temperature and normal atmospheric pressure
5. Feed Nozzle
6. Dust Nozzle
7. Manually operated or Pneumatic operated dislocated valve
8. Packing Seal
9. Safety limit switch on man hole

Optional Features

1. Carbon Steel, Stainless Steel 304, Stainless Steel 316L
2. Internal pressure
3. Sanitary type construction
4. Dislocated valve, butterfly valve, slide gate valve, ball valve
5. Horsepower to suit higher density materials
6. Explosion-proof motors
7. Controls such as variable frequency drives, motor starters and operator stations are available
8. Spray nozzles for liquid introduction
9. Jacket for heating or cooling

Technical parameter

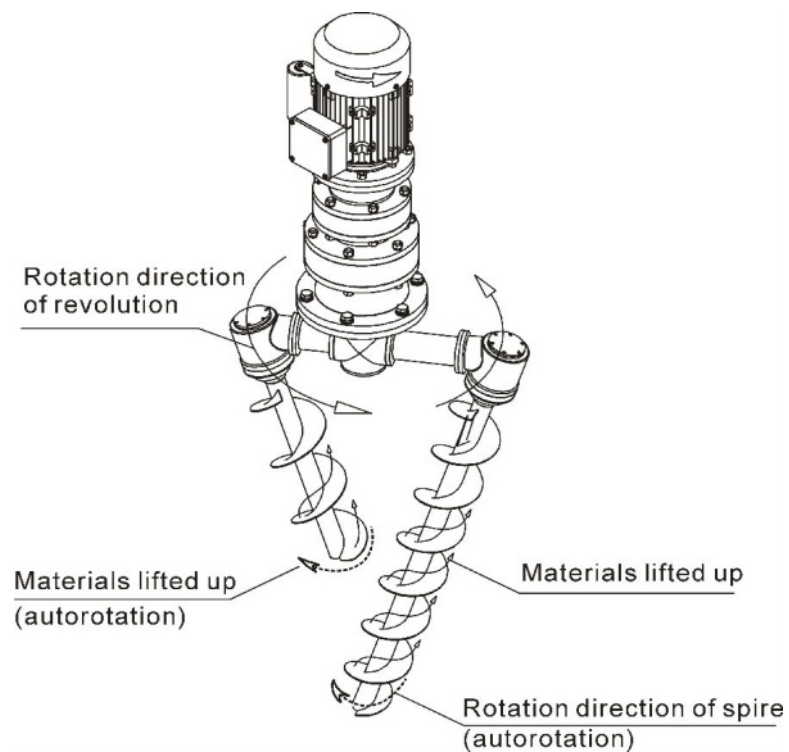
	PVG-VSH-B	PVG-VSH-B	PVG-VSH-B	PVG-VSH-B	PVG-VSH-B	PVG-VSH-B	PVG-VSH-B	PVG-VSH-B	PVG-VSH-B	PVG-VSH-B	PVG-VSH-B	PVG-VSH-B
	0.01	0.015	0.02	0.03	0.05	0.1	0.15	0.2	0.3	0.5	0.8	1
Full volume	0.01	0.015	0.02	0.03	0.05	0.1	0.15	0.2	0.3	0.5	0.8	1
Productivity (t/h)	0.01-0.02	0.015-0.03	0.02-0.05	0.03-0.07	0.05-0.1	0.1-0.2	0.15-0.3	0.2-0.8	0.3-1	0.5-1.5	0.8-2	1.5-3
Loading coefficient	0.6											
Material graininess	≥ 20											
Mixing evenness	Relation deviation < 1.5											
Total power(Kw)	0.37	0.37	0.55	0.55	0.75	1.5	1.5	2.2	3	3	4	4
Autorotation	100	100	100	100	100	143	143	143	143	143	57	57
Revolution	2											

Working pressure	micro-pressure											
Out-from dimension	455	470	492	524	587	708	782	888	990	1156	1492	1600
Total height(H)	982	1006	1020	1168	1272	1498	1620	1875	2040	2314	2576	2736
Central distance of support(D1)	410	425	440	472	535	648	724	808	910	1076	1392	1500
Height harm support to be duct covert(H2)	122	122	135	135	135	150	150	180	180	180	275	275
Size of feed port(D3)	Φ80	Φ80	Φ80	Φ80	Φ80	Φ140	Φ140	Φ140	Φ180	Φ200	Φ250	Φ300
Size of discharge port(D2)	Φ100	Φ100	Φ110	Φ125	Φ125	Φ150	Φ150	Φ230	Φ230	Φ230	Φ300	Φ300
Bucket height(H1)	505	528	542	578	682	816	938	955	1120	1390	1572	1747
Aperture of support(d)	Φ14	Φ14	Φ16	Φ16	Φ16	Φ18	Φ18	Φ18	Φ18	Φ18	Φ22	Φ22
Equipment weight(Kg)	100	110	120	130	150	210	250	500	550	600	900	1200

Technical parameter

	PVG-VSH-B	PVG-VSH-B	PVG-VSH-B	PVG-VSH-B	PVG-VSH-B	PVG-VSH-B	PVG-VSH-B	PVG-VSH-B	PVG-VSH-B	PVG-VSH-B	PVG-VSH-B	PVG-VSH-B
	1.5	2	2.5	3	4	5	6	8	10	12	15	20
Full volume	1.5	2	2.5	3	4	5	6	8	10	12	15	20
Productivity (t/h)	2-4.5	2.5-5	4.0-7	5-7.5	5-10	6-13	7.5-15	10-20	10-25	12-28	15-30	20-40
Loading coefficient	0.6											
Material graininess	≥20											
Mixing evenness	Relation deviation < 1.5											
Total power(Kw)	5.5	5.5	7.5	7.5	11	15	15	18.5	18.5	22	22	30
Autorotation	57	57	57	57	57	57	57	57	57	57	57	57
Revolution	2											
Working pressure	micro-pressure											
Out-from dimension	1780	1948	2062	2175	2435	2578	2715	2792	3000	3195	3438	3775
Total height(H)	3132	3400	3425	3605	4416	4660	4876	5350	5647	5987	6364	7144
Central distance of support(D1)	1680	1848	1962	2075	2325	2468	2605	2672	2860	3042	3276	3640

Height from support to be duct cover(H2)	275	275	275	275	320	320	320	500	500	500	500	500
Size of feed port(D3)	Φ300	Φ350	Φ350	Φ350	Φ400	Φ400	Φ400	Φ400	Φ500	Φ500	Φ500	Φ500
Size of discharge port(D2)	Φ300	Φ300	Φ400	Φ400	Φ400	Φ400	Φ400	Φ450	Φ450	Φ450	Φ450	Φ560
Bucket height(H1)	2042	2316	2340	2522	2890	3125	3340	3707	4004	4310	4687	5060
Aperture of support(d)	Φ22	Φ22	Φ22	Φ22	Φ26	Φ26	Φ26	Φ28	Φ28	Φ28	Φ28	Φ30
Equipment weight(Kg)	1350	1500	1800	2100	2500	3000	3500	3800	4300	4500	4900	5500



4) Double Shafts Paddle Mixer (Model : SYJW)

General:

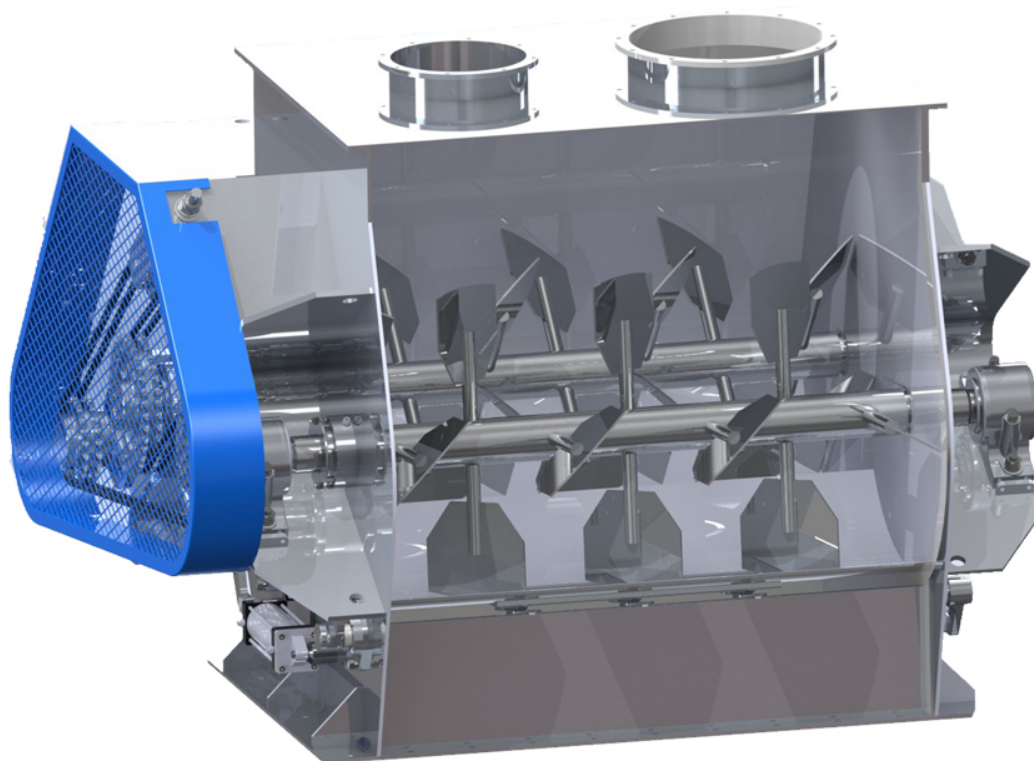
PVG Double Shafts Paddle Mixer is of low energy consumption and a large loading coefficient, moves steadily, is in sealed operation, without pollution to the environment, and easily used, maintained and repaired. PVG dual-axis paddle horizontal mixer (also called as: gravity-free grains mixer or dual-axis paddle mixer) is broadly applied for the material mixing process in chemical, agricultural chemicals, pharmacy, dyestuff, beverage, food additive etc. industries, including solid-solid (powder to powder) and solid-liquid (liquid sprayed powder) mixings and the mixing and drying operations under a vacuum state. The mixer features quick mixing, high mixing precision, non-produced segregation, warm mixing process, low energy consumption, large filling coefficient, steady movement, sealed operation, non-environment pollution, easy installation, use and repair.

Driven by the directly-connected decelerator, the chains drive the dual-axis rotor to move reversely at a certain speed and, during the movement, the paddle on the axis makes the Material goes ahead on the one hand and, on the other hand, throws it along with the radial direction to the oblique-front space. The materials on the two sides move in the reversed areas of their own to go to and fro to get direction and are mutually dissolved into the penetrated and mixed so that a fluidized weightless area and rotating vortex is formed in the central part and continually moves along with the axial and radial directions so as to form a full-respect combined cycle to quickly get the uniform mixing effect.

Technical Parameter

Model	PVG								
Norm(M ³)	0.3	0.5	1	2	3	4	6	8	10
Loading coefficient	0.4-0.6								
Power of motor (kw)	4	5.5-7.5	11-15	18.5-22	22-30	30-37	37-45	45-55	55-75
Speed of main axis (r/min)	78	51	51	51	36	36	36	29	29
Size of feed port (mm)	400	500	500	500	500	500	500	500	500
			350	350	350	350	350	350	350
Size of discharge port(mm)	350x40	500x90	500x90	500x90	500x90	500x90	500x90	800x200	800x200

Out- from Dimensio n (mm)	L	1242	1408	1875	2275	2408	2822	3050	3362	3538
	M	1278	1478	1692	2108	2396	2546	2980	3412	3645
	H	1025	1305	1425	1775	1955	2015	2235	2425	2615
Equipment weight(kg)		750	1000	1550	2500	2900	3600	5600	7100	8000



5) Horizontal Ribbon Mixer(Model : SYLW)

General

PVG horizontal ribbon mixer can be used for the materials mixing production in food, medicine, chemical plastic, dyestuff and cosmetic etc industries to mix solid-solid(powder and powder),solid-liquid(powder and liquid), especially, suit for mixing the material adhesive or containing coherent powder articles and that powder articles material which is added with more liquid(or pasty material) and features a quick mixing speed, a high precision, non-blind mixing area, a great filling coefficient, stable movement, sealed operation, without pollution to the environment, quick and clear discharge without residue, easy to use and maintenance.

Working principle

With the actuation of the directly link decelerator, the rotor moves in a fixed direction and, during Its movement, the horizontal ribbon mixer pushed The material to move along with the axis and, on the other hand, throw the material to the front upper of the helical ribbon. The helical ribbon on the outside layer makes the material always moving towards the center of the barrel while the one on the inside layer makes the material moving towards two ends from the center, thus two cycled ways off lowing are formed with the material, making it fully mixed in the repeated flowing circulation.

Standard Features

1. Volume: 100-20000L
2. Stainless Steel or Carbon Steel
3. Ribbon agitator for center discharge
4. Designed for normal temperature and normal atmospheric pressure tater for center discharge
5. Feed Nozzle
6. Dust Nozzle
7. Manually operated or Pneumatic operated flap valve
8. Packing Seal
9. Safety limit switch on cleanout door

Optional Features

1. Carbon Steel, Stainless Steel 304, Stainless Steel 316L
2. Continuous ribbon agitator, interrupted ribbon for higher density materials
3. Internal pressure
4. Sanitary type construction
5. Flap valve, butterfly valve, slide gate valve, ball valve

6. Horsepower to suit higher density materials
7. Explosion-proof motors
8. Controls such as variable frequency drives, motor starters and operator stations are available
9. Spray nozzles for liquid introduction
10. Jacket for heating or cooling

Technical parameter

Model	Mixing volume(L)	Speed (r/min)	Motor power	Feed port (mm)	Discharge port(mm)	Sizes(mm) L*W*H	Weight (kg)
PVG-SYLW-0.1m ³	40-60	76	3kw(4HP)	1-350	100	1080*758*615	330
PVG-SYLW-0.3 m ³	120-300	66	4kw (5.5HP)	1-400	500x90	1550*812*1015	780
PVG-SYLW-0.5 m ³	200-300	66	5.5kw (7.5HP)	1-500	500x90	1675*1142*1300	955
PVG-SYLW-1 m ³	400-600	41	11kw (15HP)	1-500 1-350	500x90	1970*1497*1550	1400
PVG-SYLW-2 m ³	800-1200	41	18.5kw (25HP)	1-500 1-350	500x90	2480*1651*1805	2500
PVG-SYLW-3 m ³	1200-1800	33	22kw (30HP)	1-500 1-350	500x90	2880*1896*2955	3300
PVG-SYLW-4 m ³	1600-2400	33	22kw (30HP)	1-500 1-350	500x90	3026*1946*2205	3600
PVG-SYLW-5 m ³	2000-3000	26	30kw (41HP)	1-500 1-350	500x90	3518*1945*2205	4620
PVG-SYLW-6 m ³	2400-3600	26	37kw (50HP)	1-500 2-350	500x90	3905*1882*2179	5300
PVG-SYLW-8 m ³	3200-4800	26	45kw (61HP)	1-500 2-350	500x90	3978*2160*2516	6800
PVG-SYLW-10 m ³	4000-6000	20	55kw (75HP)	1-500 2-350	500x90	4500*2270*2667	8900
PVG-SYLW-12 m ³	4800-7200	20	55kw (75HP)	1-500 2-350	500x90	4486*2466*1305	9520
PVG-SYLW-15 m ³	6000-9000	17	75kw (102HP)	1-500 2-350	500x200	5363*2450*3970	9950
PVG-SYLW-20 m ³	8000-12000	17	75kw (102HP)	1-500	500x200	5670*2650*3497	11140



6) Plough Mixer (Model:SYLD)

General

PVG Plough Mixer is a high speed mixer with high homogeneity. During the mixing process, the raw materials are transferred around the drum in a radial, lateral and longitudinal movement by the high speed plough shears and choppers. Moreover, the mixing time is short, especially for free flowing powders or granules. Liquid additive and Heating or Cooling is also applicable.

Working Principle

In the first case the mixing shaft and the tools are horizontally installed, thus achieving, at corresponding movement, a product reaching from a loose product bed up to a mechanically generated fluidized bed. In the second case the mixing shaft is installed in vertical direction, whereby a so called vortex is built at corresponding movement. The installation of fast-rotating chopper heads enables the mixing of products tending to lump formation. Due to the mixing tools, the material to be mixed is hereby specifically fed to the activity area of the chopper head. Besides the conventional ploughshare mixing tools a large variety of modified mixing tools is available, facilitating an optimum adaptation of the mixing tools to the individual material.

Standard Features

1. Volume: 100-20000L
2. Stainless Steel or Carbon Steel
3. Plough agitator for center discharge
4. Designed for normal temperature and normal atmospheric pressure
5. Feed Nozzle
6. Dust Nozzle
7. Manually operated or Pneumatic operated flap valve
8. Packing Seal
9. Safety limit switch on inspection door

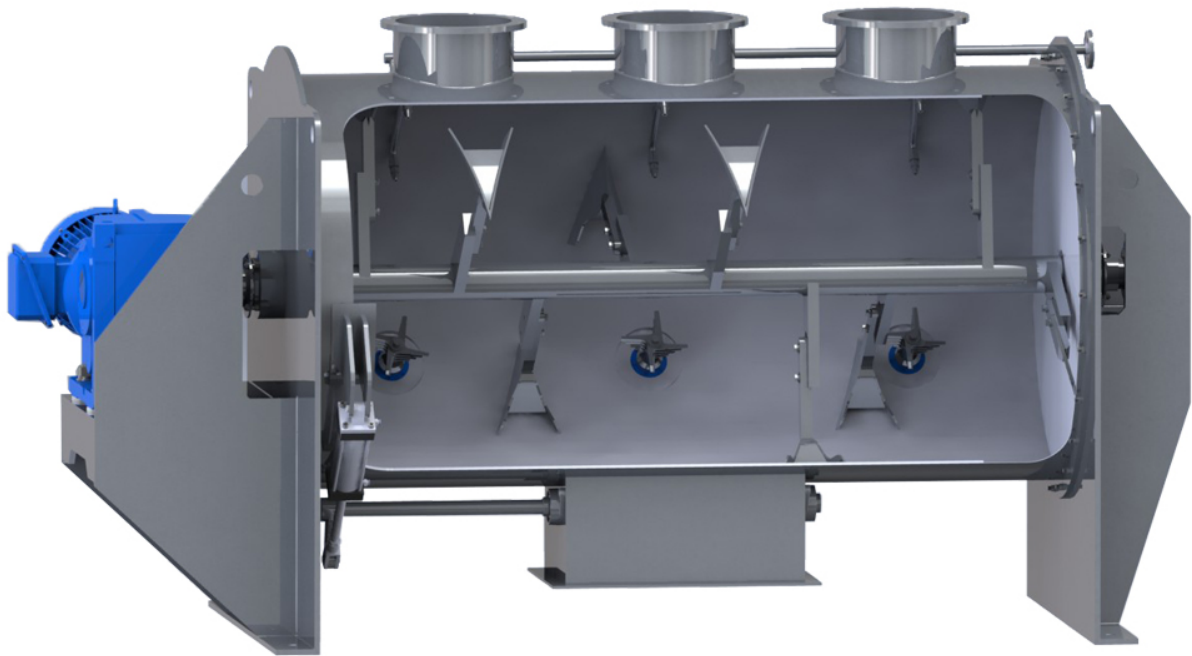
Optional Features

1. Carbon Steel, Stainless Steel 304, Stainless Steel 316L
2. Different type of plough according to material characteristics
3. Internal pressure
4. Sanitary type construction
5. Flap valve, butterfly valve, slide gate valve, ball valve

6. Horsepower to suit higher density materials
7. Explosion-proof motors
8. Controls such as variable frequency drives, motor starters and operator stations are available
9. Spray nozzles for liquid introduction
10. Jacket for heating or cooling

Technical parameter

Norm and model		0.5	1	2	3	4	6	8	10	12
Loading coefficient		0.4~0.6								
Power (kw)	Main motor	5.5	11	18.5	22	30	37	45	55	55
	Flying knife motor	2*1.5	3*2.2	3*3	3*3	3*4	3*4	4*4	4*4	4*4
Main axis speed (r/Min)		85	63	63	63	50	50	42	33	33
Flying knife speed (r/min) mm		1440								
Size of feed port		2-300	2-300	3-300	3-300	3-350	3-350	3-350	3-350	3-350
Size of discharge port	L	2680	3160	3865	4165	4678	5190	5360	5880	6140
	W	1037	1330	1404	1504	1570	2105	2310	2310	2460
	H	1150	1166	1637	1737	2040	2360	2540	2540	2690
Equipment weight (KG)		1080	1850	2100	3050	4300	7300	9250	9250	10660



B) Viscous Slurry Machinery

1) Lab dual penalty mixture

General

Lab Powerful Double Planetary Mixer is new and high efficient mixing equipment designed for universities, research institute and factory lab. The machine consists of two speed agitator and a high speed disperser, has good mixing, reacting kneading, dissolution effect, especially suitable for the dispersing and mixing of solid-liquid, liquid-liquid phase; it is quite fit for high viscosity product such as adhesives, silicone, Lithium battery slurry etc. due to its super strong output torque; the equipment has scraper which can scrape the bottom of the tank without corner or residue; also there are extrusion device and sliding rail to work together with this machine, so that realizing the integrated operation of mixing and discharging.

[Materials Viscosity]: $\leq 1,000,000$ cps

[Production Capacity]: 2-8L

[Application Industry]: Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food, ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click "Free Consultation")

[Application Materials]: Various slurries with viscosity less than 13000000cps, solid content under 90% such as battery paste, solder paste, ceramic paste, silicone inks sealants structural adhesives, soft cream, jam etc.

PRODUCT ADVANTAGE

High mixing efficiency, wide application

The dual planetary mixer has two sets of agitator and a set of high speed dispersing shaft revolving around the container axle and at the same time rotating at high speed. So that the materials are mixed. Rapidly. Under the action of strong shearing and kneading force. Various agitators (blade type, twist type, claw type, frame type etc) are in option base on materials with different viscosity and different specific gravity.

Safe and convenient operation

Adopt hydraulic cylinder as lifting actuators. Control the mixer up, stop and down through controlling the valve, simple operation with high stability; with barrel holding device for fixing the tank rapidly to prevent any possible accident due to tank displacement. There is sliding rail device between the mixing and extruding tank, convenient for moving tanks, realizing the integrated operation of mixing and discharging.

No residue on the wall, clean discharging

There is scraper on the planetary frame rotating together with the planetary frame, it clings to the container and scrape the material on the wall off continuously. The container inner wall is

precisely lathed and then mirror polished to ensure the scraper can scrape all materials sticking to the wall off without residue, increasing the mixing effect.

Different options are available such as explosion-proof type, closed type, heating type, with PLC intelligent control type etc. Material can be customized to be SS316L or special Spraying materials.

Working Principle

Lab Dual Planetary Mixer consists of decelerator, planetary frame, agitator, disperser, scraper, container, hydraulic lifting system as well as stand etc.. The rotating planetary frame drives the mixing and dispersing shafts to revolve around the container axial direction and also to rotate at a high speed at same time to put the materials under strong shearing and kneading force, so the materials are dispersed and mixed thoroughly. The scraper attached to the planetary frame rotates together with the planetary frame. It clings to the container wall and scrapes the materials off the wall continuously. The container inner wall is precisely lathed and then mirror polished to ensure the scraper can scrape all materials sticking to the wall off without residue, increasing the mixing effect. The tank filled with mixed material will be moved to extrusion system through sliding rails for finishing discharging process.

Technical Parameter

Model	Working Volume (L)	Mixer power (kw)	Revolving speed (rpm)	Rotated speed (rpm)	Scraping speed (rpm)	Dispersing power (kw)	Dispersing speed (rpm)	Lifting Mode	Lifting (mm)	Hydraulic Power (kw)	Vacuum pump power (kw)	Material
PVG-SXJB-2	1.6	0.75	0-65	0-170	0-170	0.75	0-2930	Hydraulic lifting	300	0.75	0.37	Material contacting part SS304
PVG-SXJB-5	4	1.5	0-65	0-170	0-170	1.1	0-2930	Hydraulic lifting	350	0.75	0.37	Material contacting part SS304
PVG-SXJB-8	5	1.5	0-65	0-170	0-170	1.5	0-1450	Hydraulic lifting	350	0.75	0.37	Material contacting part SS304

2) Mid Batch Dual Penalty Mixture

General

Mid-Batch Dual Planetary Mixer is new and high efficient mixing equipment designed for universities, research institute and factory lab. The machine consists of two speed agitator and a high speed disperser, has good mixing, reacting kneading, dissolution effect, especially suitable for the dispersing and mixing of solid-liquid, liquid-liquid phase; it is quite fit for high viscosity product such as adhesives, silicone, Lithium battery slurry etc. due to its super strong output torque; the equipment has scraper which can scrape the bottom of the tank without corner or residue; also there are extrusion device and sliding rail to work together with this machine, so that realizing the integrated operation of mixing and discharging.

[Materials Viscosity]: $\leq 1,000,000$ cps

[Production Capacity]: 15-100L

[Application Industry] : Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food, ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click "Free Consultation")

[Application Materials]: Various slurries with viscosity less than 13000000cps, solid content under 90% such as battery paste, solder paste, ceramic paste, silicone inks sealants structural adhesives, soft cream, jam etc.

PRODUCT ADVANTAGE

High mixing efficiency, excellent product quality

The midbatch dual planetary mixer has two sets of agitator and a set of high speed dispersing shaft revolving around the container axle and at the same time rotating at high speed. So that the materials are mixed. Rapidly. Under the action of strong shearing and kneading force. Various agitators (ball type, twist type, claw type, frame type etc) are in option based on materials with different viscosity and different specific gravity.

Safe and convenient operation

Adopt electric or hydraulic lifting. Safe and environmental friendly. The lifting pattern has lifting barrel type and lifting agitator type, with barrel fixing device to prevent any possible accident due to tank displacement. There is sliding rail device between the mixing and extruding tank, convenient for moving tanks, realizing the integrated operation of mixing and discharging.

No residue on the wall, clean discharging

There is scraper on the planetary frame rotating together with the planetary frame, it clings to the container and scrape the material on the wall off continuously. The container inner wall is

precisely lathed and then mirror polished to ensure the scraper can scrape all materials sticking to the wall off without residue, increasing the mixing effect.

Customizes Options

Different options are available such as explosion- proof type, closed type, heating type, with PLC intelligent control type etc. Material can be customized to be SS316L or special Spraying materials.

Technical parameter

Model	Working Volume (L)	Mixer power (kw)	Revolving speed (rpm)	Rotated speed (rpm)	Scraper speed (rpm)	Dispersing power (kw)	Dispersing speed (rpm)	Lifting Mode	Lifting (mm)	Hydraulic Power (kw)	Vacuum pump power (kw)	Material
PVG-SJBD-15	12	2.2	0-65	0-170	0-170	3	0-2930	Hydraulic lifting	350	0.75	0.55	Martial contacting part SS304
PVG-SJBD-30	24	4	0-65	0-170	0-170	5.5	0-2930	Hydraulic lifting	500	1.1	1.5	Martial contacting part SS304
PVG-SJBD-50	40	5.5	0-65	0-170	0-170	7.5	0-1450	Hydraulic lifting	500	1.1	1.5	Martial contacting part SS304
PVG-SJBD-65	50	5.5	0-30	0-170	0-170	7.5	0-1450	Hydraulic lifting	550	1.1	1.5	Martial contacting part SS304
PVG-SJBD-85	80	7.5	0-30	0-95	0-95	11	0-1450	Hydraulic lifting	600	1.5	2.2	Martial contacting part SS304
PVG-SJBD-100	80	7.5	0-30	0-95	0-95	11	0-1450	Hydraulic lifting	650	1.5	2.2	Martial contacting part SS304

3) Power Full Double Planetary Mixer

General

Powerful double Planetary Mixer is a new mixing machine with high performance, high efficiency, easy to operate and to maintain, which is innovated and improved based on dual planetary mixer. The Double agitators of this equipment rotate and at the same time revolve around the axle, the agitators are divided by the viscosity and characteristics of the material, usually include paddle type, twist type, claw type, frame type etc., have good mixing, reacting, kneading, dissolving effect. The high-speed disperser consists of multi-layer toothed disc with super high linear speed, it also rotates and at the same time revolve around the axle, with strong dispersing effect so that can disperse the powder (additive) in the liquid rapidly. The mixer is equipped with a separate set of scraper to scrape the sides of the barrel and the mixing paddle can be added a scraper as well, so that it can scrape the bottom of the barrel and avoid dead corner to ensure the stability of the product. Double Planetary mixer adopts planetary gear wheel drive, there is a large output torque, suitable for high temperature, high solids, high viscosity, and other difficult working conditions. This equipment is closed design, can be used with a vacuum system to realize vacuum mixing, mixing bucket can be designed with a heating jacket, matching mold temperature controller, to realize thermostatic mixing function, it's the first choice of mixing equipment for the high-viscosity materials.

[Materials Viscosity]: $\leq 3,000,000$ cps

[Production Capacity]: 50-2000L

[Application Industry] : Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food, ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click "Free Consultation")

[Application Materials]: Various slurries with viscosity less than 3000000cps, solid content under 90% such as battery paste, solder paste, ceramic paste, silicone inks sealants structural adhesives, soft cream, jam etc.

PRODUCT ADVANTAGE

High mixing efficiency, excellent product quality

The double planetary mixer has two sets of agitators and a set of high speed dispersing shaft revolving around the central axle and at the same time rotating at high speed, so that the materials with different viscosity and different specific gravity.

Safe and convenient operation

Adopt hydraulic cylinder as lifting actuators. CON

Safe and convenient operation

Adopt hydraulic cylinder as lifting actuators. Control the mixer up, stop and down through controlling the valve, simple operation with high stability. With barrel holding device for fixing the mixing tank rapidly to prevent any possible accident due to tank displacement. Interlock between the tank in place and machine running can be set to avoid mal-operation.

No residue on the wall, clean discharging

There is scraper on the planetary frame rotating together with the planetary frame, it clings to the container and scrape the material on the wall off continuously. The container inner wall is precisely lathed and then mirror polished to ensure the scraper can scrape all materials sticking to the wall off without residue. The blades can also be equipped with scraper for scraping the materials at bottom to ensure without misin dead corner and excellent mixing result. Finished products with stable quality is ensured.

Customizes Options

Different options are available such as explosion-proof type, closed type, multi-tanks tie, with lifting core type. Co-axial type/dual-shaft type mounted on kettle type etc. Material can be customized to be SS316L or special Spraying materials.

Working Principle

Double Planetary Mixer consists of decelerator, planetary frame, agitator, disperser, scraper, container, hydraulic lifting system as well as stand etc.. The rotating planetary frame drives the mixing and dispersing shafts to revolve around the container axial direction and also to rotate at a high speed at same time to put the materials under strong shearing and kneading force, so the materials are dispersed and mixed thoroughly. The scraper attached to the planetary frame rotates together with the planetary frame. It clings to the container wall and scrape the materials off the wall continuously. The container inner wall is precisely lathed and then mirror polished to ensure the scraper can scrape all materials sticking to the wall off without residue. The blades can also be equipped with scraper to scrape all materials sticking to the wall off without residue. The blades can also be equipped with scraper for scraping the materials at bottom to ensure with mixing dead corner and excellent mixing result, finished products with stable quality is ensured.

Technical parameter

Model	Working Volume (L)	Mixer power (kw)	Revolving speed (rpm)	Rotated speed (rpm)	Scraper speed (rpm)	Dispersing power (kw)	Dispersing speed (rpm)	Lifting Mode	Lifting (mm)	Hydraulic Power (kw)	Vacuum pump power (kw)	Material
PVG-SXJB-8	5	1.5	0-65	0-170	0-170	1.5	0-2930	Hydraulic lifting	300	0.75	0.37	Martial contacting part SS304
PVG-SJBD-15	12	2.2	0-65	0-170	0-170	3	0-2930	Hydraulic lifting	350	0.75	0.55	Martial contacting part SS304
PVG-SJBD-	24	4	0-65	0-170	0-170	5.5	0-2930	Hydraulic	500	1.1	1.5	Martial contacti

30								lifting				ng part SS304
PVG-SJBD-50	40	5.5	0-65	0-170	0-170	7.5	0-1450	Hydraulic lifting	500	1.1	14.5	Martial contacting part SS304
PVG-SJBD-100	80	7.5	0-30	0-95	0-95	11	0-1450	Hydraulic lifting	650	1.5	2.2	Martial contacting part SS304
PVG-SJBD-200	160	11	0-30	0-95	0-95	15	0-1450	Hydraulic lifting	750	2.2	2.2	Martial contacting part SS304
PVG-SJBD-300	240	15	0-30	0-95	0-95	18.5	0-1450	Hydraulic lifting	900	3	4	Martial contacting part SS304
PVG-SJBD-500	400	22	0-30	0-65	0-30	30	0-1450	Hydraulic lifting	1000	4	4	Martial contacting part SS304
PVG-SJBD-800	640	30	0-30	0-65	0-65	37	0-1450	Hydraulic lifting	1100 0	4	5.5	Martial contacting part SS304
PVG-SJBD-960	800	37	0-30	0-65	0-65	45	0-1100	Hydraulic lifting	120	5.5	7.5	Martial contacting part SS304
PVG-SJBD-1200	960	45	0-30	0-65	0-65	55	0-960	Hydraulic lifting	1300	5.5	11	Martial contacting part SS304
PVG-SJBD-1500	1200	55	0-30	0-65	0-65	75	0-960	Hydraulic lifting	1400	7.5	11	Martial contacting part SS304
PVG-SJBD-2000	1600	75	0-30	0-65	0-65	90	0-960	Hydraulic lifting	1500	11	15	Martial contacting part SS304

4) Traditional tri roll mill

General

Tri-shaft Multi-Functional Strong Power Dispersing Mixer is powerful dispersing and mixing machine, its regular model is Dual High-speed Dispersing mixer together with anchor type mixer with spare, has super strong shearing effect and super high mixing efficiency. This machine is specially suitable for mix-and high viscosity material and thixotropic material; there is a set of high speed as person agitator can be replaced by the mid- speed agitator, and spiral type, paddle type, frame type mixing pattern are optional, Best agitator type are chosen based on material property and production technology.

[Materials Viscosity]: $\leq 3,000,000$ cps

[Production Capacity]: 50-2000L

[Application Industry] : Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food, ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click “Free Consultation”)

[Application Materials]: Various slurries with viscosity less than 3000000cps, solid content under 90% such as battery paste, solder paste, ceramic paste, silicone inks sealants structural adhesives, soft cream, jam etc..

Product Advantage

Tri-shaft Multi-functional Strong Power Dispersing Mixer consists of the agitator with scraper and two sets of high (middle) speed dispersing mixer, the three sets of agitators working at the same time to have them materials mixed rapidly under the action of strong shearing and kneading force. Various agitators (usually anchor type, butterfly type etc.) are in option based on materials with different viscosity and different specific gravity and different production technology.

Safe and convenient operation

Adeptly drably cylinder as lifting actuators. Control the mixer up, stop and down through controlling the valve, simple operation with high stability; with bolt fix in the agitator and the main shaft, easy to disassemble and clean, different clamping mode (belt clamping, manual rotation clamping, and pneumatic clamping), can fix the mixing tank rapidly to prevent any possible accident due to displacement.

No residue on the wall, clean discharging

There is scraper on the agitator, it clings to the container and scrape the materials on the wall off continuously. The container inner wall is precisely lathed and then mirror polished to ensure the scraper can scrape all materials sticking to the wall of without residue, improving the mixing effect.

Customizes Options

Different options are available such as explosion- proof type, lifting type. Multi-tanks type, mounted on kettle type, etc. Material can be customized to be SS316L.or special spraying materials.

Technical Parameter

Model	Disperser power (kw)	Disperser speed (rpm)	1 st Mixer power (kw)	1 st Mixer speed (kw)	2Mixer power (kw)	2Mixer speed (kw)	Martial	Capacity (mm)	Hydraulic Power (kw)	Lifting (mm)
PVG-SJBD- 50	22	0-2890	1.5	0-85	2.2	0-350	Martial contacting part SS304	≤ 40	1.1	600
PVG-SJBD-100	3	0-2890	2.2	0-85	2.2	0-350	Same as above	≤80	1.5	700
PVG-SJBD-200	7.5	0-1450	4	0-85	4	0-350	Same as above	≤160	2.2	800
PVG-SJBD-300	11	0-1450	7.5	0-61	7.5	0-250	Same as above	≤240	3	900
PVG-SJBD-500	18.5	0-1450	11	0-61	11	0-200	Same as above	≤400	4	1000
PVG-SJBD-800	30	0-1450	18.5	0-52	18.5	0-200	Same as above	≤640	5.5	1100
PVG-SJBD-1000	37	0-1450	22	0-52	22	0-200	Same as above	≤800	7.5	1200
PVG-SJBD-1300	45	0-1450	30	0-41	30	1-160	Same as above	≤1000	11	1300
PVG-SJBD-1500	55	0-1450	37	0-41	37	0-160	Same as above	≤1300	11	1400
PVG-SJBD-2000	55	0-1450	45	0-41	45	0-160	Same as above	≤1600	11	1400
PVG-SJBD-2000	75	0-1450	45	0-41	45	0-160	Same as above	≤1600	11	1600

C) Fluid Machinery

1) Basket Mill word type

I) Basket mill (hydraulic mill)

General

Basket mill (Hydraulic Lifting) integrates dispersing and grinding into one machine, suitable for grinding liquid materials with mid and low viscosity. It is a batch type industrial production machine with suitable and reasonable basket structure, easy to clean and to change colors / varieties. Lifting structure adopts integrated hydraulic tank as actuator, stable lifting, environmental and without leakage. It is an ideal grinding machine for materials with many varieties and many colors.

Materials Viscosity]: ≤ 5000 cps

[Production Capacity]: 50-3000 L

[Application Industry]: Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food , ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click “Free Consultation”)

[Application Materials]: Materials shall be with viscosity less than 5000cps, with comparatively high requirements of final grinding result or with many varieties such as emulsion paint, industrial paint, color paste, water-borne ink, fertilizer suspension, enamel etc.

Product Advantage

High grinding efficiency and excellent grinding result

Driven by the strong kinetic energy. The zirconium pins drive the grinding medium inside the basket to carry out irregular movement. The mediums crush, friction with each other to grind the powder into smaller particle size within a short period. For general materials, it can be down to approx. 5 μ m, some even can be down to submicron or even Nano level.

Convenient and safe operation

Adopt hydraulic tank as lifting actuator. Control the hydraulic up, Stop, down through the oil pump. Easy operation and stable. With different clamping types to fix the tanks properly to prevent from accident due to the tank displacement during operation.

Little temperature increase, stable finished product

The tank working the machine is with cooling jacket Excellent cooling result can be achieved by inputting cooling water into the jacket when the machine is running. Normally the temperature increase will be less the 10 degree Basket part with jacket can be customized.

Customized options

The machine can be Reproof type

Grinding chamber can be made of Zirconium.

The machine can be vacuum type

The materials for the machine can be SS316L

Technical parameter

Model	Power supply (kw)	Power (km)	Speed (rpm)	(L) Basket (L)	Materials	Capacity (L)	Lift (mm)	Medium Die(L)	Wight (kg)
PVG-Sym-4	440/50 HZ	4	0-2880	3.5	Contacting Part is SS304	10-100 Standard with 50L jacketed tank	800	1.8-2.4	700
PVG-Sym-7.5	440/50 HZ	7.5	0-1440	4.5	Contacting Part is SS304	40-180 Standard with 100L jacketed tank	900	1.8-2.4	900
PVG-Sym-11	440/50 HZ	11	0-1440	6.5	Contacting Part is SS304	45-200 Standard with 200L jacketed tank	900	1.8-2.4	1100
PVG-Sym-15	440/50 HZ	15	0-1440	9	Contacting Part is SS304	50-350 Standard with 200L jacketed tank	900	1.8-2.4	1200
PVG-Sym-18.5	440/50 HZ	18.5	0-1440	17	Contacting Part is SS304	100-500 Standard with 300L jacketed tank	900	1.8-2.4	1600
PVG-Sym-22	440/50 HZ	22	0-1440	20	Contacting Part is SS304	150-800 Standard with 400L jacketed tank	900	1.8-2.4	1700
PVG-Sym-30	440/50 HZ	30	0-1440	32	Contacting Part is SS304	200-1200 Standard with 500L jacketed tank	900	1.8-2.4	2000
PVG-Sym-37	440/50 HZ	37	0-1440	39	Contacting Part is SS304	500-1500 Standard with 600L jacketed tank	900	1.8-2.4	2500
PVG-Sym-52	440/50 HZ	45	0-1440	52	Contacting Part is SS304	800-2000 Standard with 600L jacketed tank	900	1.8-2.4	3000

II) Basket mill (mounted on kettle)

General

Basket mill (Mounted on kettle) is fixed on various containers, widely applied in complete production line. After grinding, the raw material will be transported to the next procedure through pipeline, which makes it easy to become automatic, programmable, and digital operation. It is the ideal grinding equipment in the automatic production line.

[Materials Viscosity]: ≤ 5000 cps

[Production Capacity]: 200-3000 L

[Application Industry] : Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food , ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click “Free Consultation”)

[Application Materials]: Materials shall be with viscosity less than 5000cps, with comparatively high requirements of final grinding result or with many varieties such as emulsion paint, industrial paint, color paste, water-borne ink, fertilizer suspension, enamel etc.

Product Advantage

High grinding efficiency and excellent grinding result

Driven by the strong kinetic energy. The zirconium pins drive the grinding medium inside the basket to carry out irregular movement. The mediums crush, friction with each other to grind the powder into smaller particle size within a short period. For general materials, it can be down to approx. 5 μ m, some even can down to submicron or even Nano level.

Convenient and safe operation

Adopt hydraulic tank as lifting actuator. Control the hydraulic up, Stop, down through the oil pump. Easy operation and stable.

With different clamping types to fix the tanks properly to prevent form accident due to the tank displacement during operation.

Little temperature increase, stable finished product

The tank working the machine is with cooling jacket Excellent cooling result can be achieved by inputting cooling water into the jacket when the machine is running. Normally the temperature increase will be less the 10 degree Basket part with jacket can be customized.

Customized options

The machine can be Reproof type

Grinding chamber can be made of Zirconium.

The machine can be vacuum type

The materials for the machine can be SS316L

Technical parameter

Model	Power Supply	Power (kw)	Speed(rp m)	Basket (L)	Materials	Capacity (L)	Medium Dia. (mm)
PVG-SYMF-11	440/50HZ	11	0.1440	6.5	Contacting part is SS304	200	1.8-2.4
PVG-SYMF-15	440/50HZ	15	0.1440	9	Contacting part is SS304	250	1.8-2.4
PVG-SYMF-18.5	440/50HZ	18.5	0.1440	17	Contacting part is SS304	300	1.8-2.4
PVG-SYMF-22	440/50HZ	22	0.1440	20	Contacting part is SS304	400	1.8-2.4
PVG-SYMF-30	440/50HZ	30	0.1440	32	Contacting part is SS304	500	1.8-2.4
PVG-SYMF-37	440/50HZ	37	0.1440	39	Contacting part is SS304	600	1.8-2.4
PVG-SYMF-45	440/50HZ	45	0.1440	52	Contacting part is SS304	800	1.8-2.4
PVG-SYMF-55	440/50HZ	55	0.950	65	Contacting part is SS304	900	1.8-2.4
PVG-SYMF-75	440/50HZ	75	0.950	85	Contacting part is SS304	1000	1.8-2.4

III) Basket mill (pneumatic mill)

General

Basket mill (Pneumatic Lifting) integrates dispersing and grinding into one machine, suitable for grinding liquid materials with mid and low viscosity. It is a small batch production widely used in Institutions, research institutions, universities etc. It is with frequency in inverter to realize various speed control, can extend running time, stable running and own noise, And the machine is with suitable and reasonable basket structure, easy to clean and to change colors' varieties. Lifting structure adopts air cylinder as actuator, environmental and pollution free. It is an ideal grinding machine for small batch production.

[Materials Viscosity]: ≤ 5000 cps

[Production Capacity]: 20-200L

[Application Industry] : Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food , ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click "Free Consultation")

[Application Materials]: Materials shall be with viscosity less than 5000cps, with comparatively high requirements of final grinding result or with many varieties such as emulsion paint, industrial paint, color paste, water-borne ink, fertilizer suspension, enamel etc.

Product Advantage

High grinding efficiency and excellent grinding result

Driven by the strong kinetic energy. The zirconium pins drive the grinding medium inside the basket to carry out irregular movement. The mediums crush, friction with each other to grind the powder into smaller particle size within a short period. For general materials, it can be down to approx. 5um, some even can down to submicron or even Niño level.

Safe and easy operation

Adopt cylinder as lifting actuator. Have the basket lifting up, stop and down by controlling the control valve, low air consumption and easy to do the operation. With manual clamping for fixing the tanks firmly. The whole frame is with break wheels, save space and remove easily.

Little temperature increase, stable finished product.

The tank working with the machine is with cooling jacket. Excellent cooling result can be achieved by inputting cooling water into the jacket when the machine is running. Normally the temperature increase will be less than 10 degree Basket part with jacket can be customized

Customized options

The machine can be Reproof type

Grinding chamber can be made of Zirconium.

The machine can be vacuum type

The materials for the machine can be SS316L

Technical Parameter

Model	Power supply	Power (kw)	Speed (rpm)	Basket (L)	Materials	Capacity (L)	Lift (mm)	Medium Die(m)	Wight (kg)
PVG-SYM-4	440/50HZ	4	0-2880	3.5	Contacting Part is SS304	10-100 Standard with 50L jacketed tank	800	1.8-2.4	250
PVG-SYM - 7.5	440/50HZ	7.5	0-1440	4.5	Contacting Part is SS304	40-180 Standard with 100L jacketed tank	900	1.8-2.4	320
PVG-SYM - 11	440/50HZ	11	0-1440	6.5	Contacting Part is SS304	45-200 Standard with 200L jacketed tank	900	1.8-2.4	380
PVG-SYM - 15	440/50HZ	15	0-1440	9	Contacting Part is SS304	50-350 Standard with 200L jacketed tank	900	1.8-2.4	480

IV) Closed type basket mill(hydraulic mill)

General

Close type Basket Mill (Hydraulic Lifting) is a functional machine developed based on the standard Basket Mill (Hydraulic Lifting): The equipment has air tight vacuum cover matching with the tank exactly, the vacuum cover flange is with slot and elastic sealing ring which is anti-corrosive to ensure there is no leakage when it is under close and can reach – 0.098mpa (20mbar). It is applicable for dispersing and grinding under special working condition such as vacuum degassing, inert gas protection etc.

[Materials Viscosity]: ≤ 5000 cps

[Production Capacity]: 50-3000L

[Application Industry] : Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food , ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click “Free Consultation”)

[Application Materials]: Materials shall be with viscosity less than 5000cps, with comparatively high requirements of final grinding result or with many varieties such as emulsion paint, industrial paint, color paste, water-borne ink, fertilizer suspension, enamel etc.

Product Advantage

High grinding efficiency and excellent grinding result

Driven by the strong kinetic energy. The zirconium pins drive the grinding medium inside the basket to cay out irregular movement. The mediums crush, friction with each other to grind the powder into smaller particle size within a short period. For general materials, it can be down to approx. 5um, some even can down to submicron or even Niño level.

High environmental protection index and safe

The equipment is with a closed type cover (lifting together with the machine) to match with the tank well to realize high vacuum degree and to present solvent from volatilization successfully. The cover is with sight glass and with lamp to do real- time observation of the missing state. With hand hole for machine cleaning as well as a port for charging materials.

Adopt cylinder as lifting actuator. Have the basket lifting up, stop and down by controlling the control valve, low air consumption and easy to do the operation. With manual clamping for fixing the tanks firmly. The whole frame is with break wheels, save space and removes easily. Result can be achieved by inputting cooling water into the jacket when the machine is running.

Normally the temperature increase will be less the 10 degree Basket part with jacket can be customized.

Little temperature increase, stable finish product

The tank working with the machine is with cooling jacket. Excellent cooling result can be achieved by inputting cooling water into the jacket when the machine is running. Normally the temperature increase will be less than 10 degree Basket part with jacket can be customized

Customized options

The machine can be Reproof type

Grinding chamber can be made of Zirconium.

The machine can be vacuum type

The materials for the machine can be SS316L

Technical parameter

Model	Power supply (kw)	Power (km)	Speed (rpm)	Basket (L)	Materials	Capacity (L)	Lift (mm)	Medium Die(L)	Wight (kg)
PVG-SYMZ -7.5	440/50HZ	7.5	0-1440	4.8	Contactin g Part is SS304	40-180 Standard with 100L jacketed tank	900	1.8-2.4	1000
PVG-SYMZ -11	440/50HZ	11	0-1440	6.5	Contactin g Part is SS304	45-200 Standard with 200L jacketed tank	900	1.8-2.4	1200
PVG-SYMZ -15	440/50HZ	15	0-1440	9	Contactin g Part is SS304	50-350 Standard with 200L jacketed tank	900	1.8-2.4	1300
PVG-SYMZ -18.5	440/50HZ	18.5	0-1440	17	Contactin g Part is SS304	100-500 Standard with 300L jacketed tank	900	1.8-2.4	1700
PVG-SYMZ -22	440/50HZ	22	0-1440	20	Contactin g Part is SS304	150-800 Standard with 400L jacketed tank	900	1.8-2.4	1800
PVG-SYMZ -30	440/50HZ	30	0-1440	32	Contactin g Part is SS304	200-1200 Standard with 500L jacketed tank	900	1.8-2.4	2200
PVG-SYMZ -37	440/50HZ	37	0-1440	39	Contactin g Part is SS304	500-1500 Standard with 600L jacketed tank	900	1.8-2.4	2700
PVG-SYMZ -45	440/50HZ	45	0-1440	52	Contactin g Part is SS304	800-2000 Standard with 600L jacketed tank	900	1.8-2.4	3200
PVG-SYMZ -55	440/50HZ	55	0-950	65	Contactin g Part is SS304	800-2500 Standard with 600L jacketed tank	900	1.8-2.4	3500
PVG-SYMZ -75	440/50HZ	75	0-950	85	Contactin g Part is	1000-3000 Standard with 600L jacketed	900	1.8-2.4	3800

					SS304	tank			
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V) Lab Basket Mil

General

Lab basket mill is a wet grinding machine designed for small-scale dispersing and grinding production I Institutions and research institutes. It is suitable for grinding liquid materials with mid and low viscosity, kind of a lab batch type grinding machine. The equipment is with digital speed display (0-2880rpm), various speed control and can extend running period, stable running and low noise. It integrates dispersing and grinding into one machine, which redoes production process, enhances the production efficiency significantly and also reduce the materials waste. Comparing with other lab grinding machine, lab Basket Mill is characterized in high grinding efficiency, good grinding fineness and easy to clean. It is suitable for grinding materials with many varieties.

[Materials Viscosity]: ≤ 5000 cps

[Production Capacity]: 1.5-2L

[Application Industry] : Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food , ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click “Free Consultation”)

[Application Materials] : Materials shall be with viscosity less than 5000cps, with comparatively high requirements of final grinding result or with many varieties such as emulsion paint, industrial paint, color paste, water-borne ink, fertilizer suspension, enamel etc.

Product Advantage

High grinding efficiency and excellent grinding result

Driven by the strong kinetic energy. The zirconium pins drive the grinding medium inside the basket to carry out irregular movement. The mediums crush, friction with each other to grind the powder into smaller particle size within a short period. For general materials, it can be down to approx. 5um, some even can down to submicron or even Nano level.

Easy operation and clean

The machine has electronic control cabinet and invert, which are fixed with Removable stainless steel cart, and it is easy for the equipment operation and speed control. It has electrical lifting device, can realized the cover and the tank relatively closed, it reduce the volatilization of solvent, The special design of grinding chamber can make it easy for both solvent circulation cleaning or grinding chamber split to clean

Little temperature increase, stable finish product.

The tank working with the machine is with cooling jacket. Excellent cooling result can be achieved by inputting cooling water into the jacket when the machine is running. Normally the temperature increase will be less than 10 degree Basket part with jacket can be customized

Customized options

The machine can be Reproof type

Grinding chamber can be made of Zirconium.

The machine can be vacuum type

The materials for the machine can be SS316L

Technical Parameter

Model	Power supply (kw)	Power (km)	Speed (rpm)	Basket (L)	Materials	Capacity (L)	Lift (mm)	Medium Die(L)	Wight (kg)
PVG-SYM - 0.75	220/50HZ	0.75	0-2880	1	Contacting Part is SS304	1.5 Standard with 100L jacketed tank	Electrical lifting	1.8-2.4	70

VI) Mid-batch basket mill

General

The machine has altered traditional production processing by integration dispersing and milling two processes into one, which reduces production process significantly. It increase production efficiency and reduce waste. Compared to other lab equipment, mid-batch basket mill has high efficiency and high finesse, and it is easy to clean, and fit for grinding different material.

[Materials Viscosity] : ≤ 5000 cps

[Production Capacity] : 200-3000L

[Application Industry] : Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food , ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click “Free Consultation”)

[Application Materials] : Materials shall be with viscosity less than 5000cps, with comparatively high requirements of final grinding result or with many varieties such as emulsion paint, industrial paint, color paste, water-borne ink, fertilizer suspension, enamel etc.

Product Advantage

High grinding efficiency and excellent grinding result

Driven by the strong kinetic energy. The zirconium pins drive the grinding medium inside the basket to cay out irregular movement. The mediums crush, friction with each other to grind the powder into smaller particle size within a short period. For general materials, it can be down to approx. 5um, some even can down to submicron or even Niño level.

Easy operation and clean

The machine has electronic control cabinet and invert, which are fixed with Removable stainless steel cart, and it is easy for the equipment operation and speed control. It has electrical lifting device, can realized the cover and the tank relatively closed, it reduce the vitalization of solvent, The special design of grinding chamber can make it easy for both solvent circulation cleaning or grinding chamber split to clean.

Little temperature increase, stable finish product.

The tank working with the machine is with cooling jacket. Excellent cooling result can be achieved by inputting cooling water into the jacket when the machine is running. Normally the temperature increase will be less than 10 degree Basket part with jacket can be customized

Customized options

The machine can be Reproof type

Grinding chamber can be made of Zirconium.

The machine can be vacuum type

The materials for the machine can be SS316L

Technical Parameter

Model	Power supply (kw)	Power (km)	Speed (rpm)	Basket (L)	Materials	Capacity (L)	Lift (mm)	Medium size(L)	Wight (kg)
PVG-SYM – 2.2	440/50H Z	2.2	0-2880	1.5	Contacting Part is SS304	15 Standard with 20L jacketed tank	Electric al lifting	1.8-2.4	200

2) High Shear Emulsifier

I) Batch Type Solid Liquid Emulsifier

General

PVG series batch tipper solid-liquid mixing emulsifier, the specially designed working head can generate container, and the turbulence from the radical direction will stop the air entering, In this case, the powder and sticky past materials will be dispersed rapidly. Chagrin tube with dust-free design can suck the light powers form bags or storage bins directly to the missing container, no need for lifting it up or dumping.

[Materials Viscosity]: ≤ 2000 cps

[Production Capacity]: ≤ 2500 L/batch

[Application Industry] : Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food , ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click “Free Consultation”)

[Application Materials] : Applicable for production process for solution, gel. Suspension or emulsion of solid – liquid, liquid – liquid materials such as juice, soup bases, milk production, tissue homogenate, cosmetics, surfactants, asphalt, emulsifier, oil field chemicals etc.

Product Advantage

High efficiency, high product quality

The Max, rotation speed can be up to 2930rpm, linear velocity is over 20m/s, it can rapidly Disperse the liquid evenly. Due to its high shear forces, the material will be uniformly dispersed and formed a good suspension effect.

High precision processing

The Stator and rotor are forging materials processed in CNC machining center. The matching between the stator and rotor is with high precision to enable to realize excellent sheening result and high- efficient dispersing.

Structure Advantages

Solve the problem of low- efficient dispersing and powder charging difficulty. It is widely used in industrial production.

Technical Parameter

Model	Power (kw)	Capacity (L/Batch)	Speed (rpm)	Max power suction (kg/min)	Seating type	Materials
PVG-SRHX-2.2	2.2	50-150	0.2930	6	Lip seal/mechanical Seals	SS304/316L
PVG-SRHX-4	4	100-400	0.2930	8	Lip seal/mechanical Seals	SS304/316L
PVG-SRHX-7.5	7.5	200-1000	0.2930	12	Lip seal/mechanical Seals	SS304/316L
PVG-SRHX-11	11	300-1400	0.2930/1450	20	Lip seal/mechanical Seals	SS304/316L
PVG-SRHX-18.5	18.5	500-1800	0.2930/1450	26	Lip seal/mechanical Seals	SS304/316L
PVG-SRHX-22	22	800-2500	0.2930/1450	30	Lip seal/mechanical Seals	SS304/316L

II) Continuous Type Solid Liquid Mixing Emulsifier

General

PVG-SRBM series Continuous type Solid- liquid Mixing Emulsifier can complete all the process steps by one machine: Dust free and loss- free dust suction tube/ hopper for charging materials and finish the process rapidly including powder charging. Raw material charging. Wetting, dispersing and mixing without caking. It not only wet the powders but also disperses the powders into the liquid under vacuum situation, which prevent air from entering. It prevents materials from aggregation to achieve better reaction result, higher utilization rate, finished products with better quality. The system can become a module, which can save a lot of pipelines and production procedure. And it also reduces the production cost to minimum.

[Materials Viscosity] : ≤ 5000 cps

[Production Capacity] : $\leq 90\text{m}^3/\text{batch}$

[Application Industry] : Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food , ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click “Free Consultation”)

[Application Materials] : Applicable for production process for solution, gel. Suspension or emulsion of solid – liquid, liquid – liquid materials such as juice, soup bases, milk production, tissue homogenate, cosmetics, surfactants, asphalt, emulsifier, oil field chemicals etc.

Product Advantage

Easy operation

Connection with pipeline or container outlet, easy installation, good delivery capacity and no need for extra delivery pump.

High efficiency, high product quality

Uniquely designed coordination between stator and rotor can rapidly disperse the powder in the liquid evenly: The material also under high- shearing force will be uniformly dispersed and form a good suspension effect.

High precision processing

The Stator and rotor are forging materials processed in CNC machining center. The matching between the stator and rotor is with high precision to enable to realize excellent sheering result and high- efficient dispersing.

Structure Advantages

Solve the problem of low- efficient dispersing and powder charging difficulty. It is widely used in industrial production.

Technical Parameter

Model	Power (kw)	Capacity (M / 'h)	Speed (rpm)	Max (kg/min)	Materials
PVG-SRBH-15	15	10	0.2930	25	304/316L
PVG-SRBH-22	22	20	0.2930	35	304/316L
PVG-SRBH-30	30	30	0.2930	45	304/316L
PVG-SRBH-37	37	50	0.2930	60	304/316L
PVG-SRBH-45	45	70	0.2930/1450	80	304/316L
PVG-SRBH-55	55	90	0.2930/1450	100	304/316L

III) High Shear Emulsifier (Hydraulic Lifting)

General

High-shear Emulsifier (Hydraulic Lifting) is a batch type machine designed for big volume in industrial production. Its working capacity is generally between 50-5000L. It narrows the particle size of liquid-liquid and liquid-solid materials through external mechanical force and distribute one phase materials into another phase or many other phases evenly to realize good homogenizing, dispersing and emulsifying result. As a result, the materials become stable emulsion. The emulsifier is batch production; the working head adopt the new type of dual direction suction structure. The equipment can adapted to wide range viscosity and temperature, and can also customized ex-proof product.

[Materials Viscosity]: ≤ 5000 cps

[Production Capacity]: 50-5000L

[Application Industry]: Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food , ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click “Free Consultation”)

[Application Materials]: Applicable for production process for solution, gel. Suspension or emulsion

of solid – liquid, liquid – liquid materials such as juice, soup bases, milk Production, tissue homogenate, cosmetics, surfactants, asphalt, emulsifier, oil field chemicals etc.

Product Advantage

High efficiency, high product quality

With linear velocity more than 20m/s, it can distribute one phase materials into another phase or may other phase evenly in a short period to obtain fine homogenizing, dispersing emulsifying result. Its finished products are with stable quality and not easy to be laminated.

High precision processing

The Stator and rotor are forging materials processed in CNC machining center. The clearance between the state and rotor is very small to get good shearing result, high emulsifying and dispersing efficiency. And the stator and rotor also can be coated with Nano materials to extend their service life.

Convenient and safe operation

Adopt hydraulic tank as lifting actuator. Control the hydraulic up, stop, down through the oil pump, easy operation and stable. The emulsifying head fixed with the main the shaft by hexagon socket screw, can be easily disassemble and replace. It is easy to clean, and can change to different emulsifying head to achieve the best emulsifying and homogenizing effect. With different clamping types to fix the tanks properly to prevent from accident due to the tank displacement during operation.

Adopt hydraulic cylinder as lifting actuator. With hydraulic control valve to control emulsifier up, stop and down, low air consumption, easy to operate. The emulsifying head is fixed to the main shaft with hexagon socket-head cap screws, which can be disassembled and exchanged quickly, easy to clean. Different clamping types (belt clamping, Manual Rotation Clamping, Pneumatic Clamping) are optional to fix the tanks properly to prevent from accident due to the tank displacement during operation.

Customized options

Different options are available such as explosion-proof type close type, dual-shaft compound types, multi-tanks type, etc. material can be customized to be SS304/SS316, coated with anticorrosive and durable coating.

Technical Parameter

Model	Power (kw)	Speed (rpm)	Linear velocity (m/s)	Materials	Capacity (L)	Lifting (MM)
PVG-SRHY-4	4	0-2930	20	SS304/SS316L Stainless steels	≤400	800
PVG-SRHY -7.5	7.5	0-2930	20	Same as above	≤800	900
PVG-SRHY -11	11	0-2930	25	Same as above	≤1000	900
PVG-SRHY -15	15	0-2930/1450	25	Same as above	≤1200	900
PVG-SRHY -18.5	18.5	0-2930/1450	25	Same as above	≤1500	1100
PVG-SRHY -22	22	0-2930/1450	25	Same as above	≤2000	1100
PVG-SRHY -30	30	0-1450	21	Same as above	≤2500	1100
PVG-SRHY -37	37	0-1450	21	Same as above	≤4000	1600
PVG-SRHY -45	45	0-1450	25	Same as above	≤5000	1600

IV) High Shear Emulsifier (Pneumatic Lifting)

General

High-shear Emulsifier (Pneumatic Lifting) is a batch type machine designed for small volume in industrial production. Its working capacity is generally between 20-1000L. It narrows the particle size of liquid-liquid and liquid-solid materials through external mechanical force and distribute one phase materials into another phase or many other phases evenly to realize good homogenizing, dispersing and emulsifying result and obtain stable emulsion. High shear dispersing emulsifiers is a batch type machine. The working head is a new type with dual direction suction structure. The equipment can adapt to wide range viscosity and temperature, and can also customize to be ex-proof type.

[Materials Viscosity] : ≤ 5000 cps

[Production Capacity] : 50-1000L

[Application Industry] : Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food , ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click “Free Consultation”)

[Application Materials] : Applicable for production process for solution, gel. Suspension or emulsion

of solid – liquid, liquid – liquid materials such as juice, soup bases, milk Production, tissue homogenate, cosmetics, surfactants, asphalt, emulsifier, oil field chemicals etc.

Product Advantage

High efficiency, high product quality

With linear velocity more than 20m/s, it can distribute one phase materials into another phase or may other phase evenly in a short period to obtain fine homogenizing, dispersing emulsifying result. Its finished products are with stable quality and not easy to be laminated.

High precision processing and long service life

The Stator and rotor are forging materials processed in CNC machining center. The clearance between the state and rotor is very small to get good shearing result, high emulsifying and dispersing efficiency. And the stator and rotor also can be coated with Nano materials to extend their service life.

Safe and easy operation

Adopt air cylinder as lifting actuator. With pneumatic control valve to control emulsifier up, stop and down, low air consumption, easy to operate. The emulsifying head is fixed to the main shaft with hexagon socket-head cap screws, which can be disassembled and exchanged quickly, easy to clean with manual simple clamping to fix the tanks properly to prevent from accident due to the tank displacement during operation.

Easy to move

The equipment takes up little space, with brake wheels to remove easily.

Technical Parameter

Model	Power (kw)	Speed (rpm)	Linear velocity (m/s)	Materials	Capacity (L)	Lifting (MM)
PVG-SRHQ-1.1	1.1	0-2930	21	SS304/SS316L	≤50	600
PVG-SRHQ-2.2	2.2	0-2930	21	SS304/SS316L	≤150	700
PVG-SRHQ-4	4	0-2930	20	SS304/SS316L	≤400	900
PVG-SRHQ-7.5	7.5	0-2930	20	SS304/SS316L	≤800	1100
PVG-SRHQ-11	11	0-2930	25	SS304/SS316L	≤1000	1100

V) High Shear Emulsifier (Vacuum Type)

General

High-Shear Emulsifier (Vacuum type) is no-standard designed and manufactured according to customers\'s production processing. It is suitable for materials requiring for being emulsified and mixed under vacuum condition. Low-speed scraper is recommended to work together when emulsifying and mixing materials with high viscosity. It can work together with inline high shear emulsifier to carry out dispersing, emulsifying, homogenizing and mixing processes. Following systems are optional according to requirement: Batching System, Discharging System, Cooling/Heating Temperature Control System, Vacuum System, Nitrogen Protection System, Condensation and Recovery System, PH Value On-line Measurement and Control System etc. it is with wide application range and the processes are controllable. It can be up to Sanitary Grade at request for mid batch or industrial production in industries such as medicine, food, cosmetic etc.

[Materials Viscosity]: ≤ 10000 cps

[Production Capacity]: 2-2000L

[Application Industry]: Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food, ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click "Free Consultation")

[Application Materials]: Applicable for production process for solution, gel. Suspension or emulsion of solid – liquid, liquid – liquid materials such as juice, soup bases, milk production, tissue homogenate, cosmetics, surfactants, asphalt, emulsifier, oil field chemicals etc.

Product Advantage

Discharging way

Emulsified pot cover is lifted up and down through hydraulic/electric system. The finished products are discharged by following ways: Turn over the pot for discharging, pressurized the pot to discharge the materials from the bottom outlet with the help of the delivery pump. Choose the better way based on the materials property.

Temperature control

Using the electricity heating bar to heat the thermal medium inside the jacket to heat the materials. The heating temperature is settable and can be controlled automatically. It is also ok to input steam for heating and input cooling water to the jacket for cooling the materials down, easy to operate. Heat insulation layer is optional for the jacket.

Missing way

Homogenizer and blade agitator can be used separately or at the same theme. The micronization, emulsifying, mixing, dispersing of materials can be finished in a short time.

Technical parameter

Model	Design volume (L)	Capacity (L)	Blending power (kw)	Blending speed (rpm)	Emulsifying power (kw)	Emulsifying speed (rpm)	Electrical heating power (kw)	Vacuum pump power (Kw)	Lifting
PVG-SRHZ-5	6	5	0.37	0-100	0.75	0-2880	2	0.37	Manual
PVG-SRHZ-10	10	8	0.37	0-100	0.75	0-2880	2	0.37	Manual
PVG-SRHZ-30	30	25	0.75	0-96	1.5	0-2800	2	0.37	Electric
PVG-SRHZ-50	50	40	1.5	0-96	2.2	0-2880	2	0.37	Electric
PVG-SRHZ-5	100	80	1.5	0-96	4	0-2880	6	0.37	Electric
PVG-SRHZ-150	150	120	2.2	0-96	5.5	0-2800	6	0.75	Electric
PVG-SRHZ-120	200	160	2.2	0-96	5.5	0-2880	8	0.75	Hydraulic
PVG-SRHZ-250	250	200	4	0-96	7.5	0-2880	12	0.75	Hydraulic
PVG-SRHZ-350	350	280	4	0-96	7.5	0-2800	12	1.5	Hydraulic
PVG-SRHZ-500	500	400	5.5	0-65	11	0-2880	15	1.5	Hydraulic
PVG-SRHZ-650	650	520	5.5	0-65	15	0-2880	18	3	Hydraulic
PVG-SRHZ-850	850	680	7.5	0-65	18.5	0-1400	18	3	Hydraulic
PVG-SRHZ-1000	1000	800	7.5	0-65	18.5	0-1400	24	3	Hydraulic
PVG-SRHZ-1300	1300	1000	11	0-45	22	0-1400	24	4	Hydraulic
PVG-SRHZ-2000	2000	1600	15	0-45	30	0-1400	36	5.5	Hydraulic

VI) High Shear Dispersing Emulsifier

General

High-Shear Dispersing Emulsifier narrows the particle size of liquid-liquid and liquid-solid material through external mechanical force and distributes one phase materials into another phase or many other phase evenly to realize good homogenizing, dispersing and emulsifying result. As a result, the materials form a stable emulsion state. High-shear dispersing emulsifiers a batch type machine. The working head adopted new type of dual direction suction structure, and can have top, side and bottom installation position. The equipment can combined with different agitators like dispersing and missing, which realizing one machine has multi-functions. The equipment can adopted to wide range viscosity and temperature, and it is fit or working condition 100 mbar vacuum ex-proof (ATEX), and highest pressure 10bar.

[Materials Viscosity]: ≤ 10000 cps

[Production Capacity]: $\leq 10\text{m}^3/\text{batch}$

[Application Industry]: Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food , ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click “Free Consultation”)

[Application Materials]: Applicable for production process for solution, gel. Suspension or emulsion of solid – liquid, liquid – liquid materials such as juice, soup bases, milk Production, tissue homogenate, cosmetics, surfactants, asphalt, emulsifier, oil field chemicals etc.

Product Advantage

High efficiency, high product quality

With linear velocity more than 20m/s, it can distribute one phase materials into another phase or many other phase evenly in a short period to obtain fine homogenizing, dispersing emulsifying result. Its finished products are with stable quality and not easy to be laminated.

High precision processing and long service life

The Stator and rotor are forging materials processed in CNC machining center. The clearance between the state and rotor to ensure excellent sheening result, higher emulsifying and dispersing

efficiency. Also the Stator and rotor can be coated with Nano materials which can extend their service life.

Various installation ways

With compact structure, the machine can be fixed type (Mounted on Kettle) and lifting type (Pneumatic Lifting, Hydraulic Lifting.) Installation positions (top-, side and bottom) are chosen based on different working conditions.

Customized options

Different options are available such as explosion-proof type, dual-shaft compound types, multi-tanks type, etc. material can be customized to be SS304/SS321/ SS316L.

Discharging way

Emulsified pot cover is lifted up and down through hydraulic/electric system. The finished products are discharged by following ways: Turn over the pot for discharging, pressurized the pot to discharge the materials from the bottom outlet with the help of the delivery pump. Choose the better way based on the materials property.

Temperature control

Using the electricity heating bar to heat the thermal medium inside the jacket to heat the materials. The heating temperature is settable and can be controlled automatically. It is also ok to input steam for heating and input cooling water to the jacket for cooling the materials down, easy to operate. Heat insulation layer is optional for the jacket.

Missing way

Homogenizer and blade agitator can be used separately or at the same time. The micronization, emulsifying, mixing, dispersing of materials can be finished in a short time.

Technical specification

Model	Power	Capacity (L/batch)	Speed (rpm)	Linear velocity (m/s)	Sealing type	Materials
PVG-SRH-4	4	≤400	0-2930	20	Lip seal/mechanical seals	SS304/316L
PVG-SRH-7.5	7.5	≤800	0-2930	20	Lip seal/mechanical seals	SS304/316L
PVG-SRH-11	11	≤1000	0-2930	25	Lip seal/mechanical seals	SS304/316L
PVG-SRH-15	15	≤1200	0-2930/1405	25	Lip seal/mechanical seals	SS304/316L
PVG-SRH-18.5	18.5	≤1500	0-2930/1405	25	Lip seal/mechanical seals	SS304/316L
PVG-SRH-22	22	≤2000	0-2930/1405	25	Lip seal/mechanical seals	SS304/316L
PVG-SRH-30	30	≤2500	0-1405	21	Lip seal/mechanical seals	SS304/316L
PVG-SRH-37	37	≤4000	0-1405	21	Lip seal/mechanical seals	SS304/316L
PVG-SRH-45	45	≤5000	0-1405	25	Lip seal/mechanical seals	SS304/316L
PVG-SRH-55	55	≤5000	0-1405	26	Lip seal/mechanical seals	SS304/316L
PVG-SRH-75	75	≤8000	0-1405	26	Lip seal/mechanical seals	SS304/316L
PVG-SRH-90	90	≤10000	0-1000	23	Lip seal/mechanical seals	SS304/316L
PVG-SRHZ-110	110	≤120000	0-1000	21	Lip seal/mechanical seals	SS304/316L

VII) Inline High Shear Emulsifier (Single Stage)

General

Inline high-shear Emulsifier is a continuous production type emulsifier with high efficiency. It processes materials in continuous production or circulation of fine materials. The motor drives the rotor to rotate at high speed. It narrows the particle size of liquid-liquid and liquid-solid materials through external mechanical force and distribute one phase materials into another phase or may other phases evenly to realize good homogenizing, dispersing and emulsifying result. As a result, the materials become stable emulsion. It can be equipped with materials transfer pump in front of it to make it suitable for materials with mid-and-high viscosity. The materials are thoroughly dispersed and sheared after going through it. It is characterized in low noise and stable running, short transfer distance and low head.

[Materials Viscosity]: ≤ 20000 cps

[Production Capacity]: ≤ 60 m³/h

[Application Industry]: Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food , ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click “Free Consultation”)

[Application Materials]: Applicable for production process for solution, gel. Suspension or emulsion of solid – liquid, liquid – liquid materials such as juice, soup bases, milk Production, tissue homogenate, cosmetics, surfactants, asphalt, emulsifier, oil field chemicals etc.

Product Advantage

Easy operation

Connecting with pipeline or container outlet, easy installation, good delivery capacity and no need for extra delivery pump.

High efficiency, finished products with good quality

With linear velocity over 20m/s. it can distribute one phase materials into another phase or may other phase evenly in a short period to obtain excellent homogenizing, dispersing emulsifying result. The finished products are with stable quality and not easy to be laminated.

High precision processing

The Stator and rotor are forging materials processed in CNC machining center. The clearance between the state and rotor is very small to get good shearing result, high emulsifying and dispersing efficiency. And the stator and rotor also can be coated with Nano materials to extend their service life.

Customized options

Material can be customized to be SS304/SS321/SS316L or non-conventional materials such as titanium alloy etc. according to requirements

Technical parameter

Model	Power (kw)	Capacity (m ³ /h)	Speed (rpm)	Inlet (mm)	Outlet (mm)	Materials
PVG-SRB1,1/1/6	1.1	0.5	0-2930	DN32	DN25	SS304/316L
PVG-SRB2.2/1/6	2.2	3	0-2930	DN40	DN32	SS304/316L
PVG-SRB-4/1/6	4	5	0-2930	DN40	DN32	SS304/316L
PVG-SRB-.5/1/6	7.5	7	0-2930	DN50	DN40	SS304/316L
PVG-SRB11/1/6	11	10	0-2930/1405	DN50	DN50	SS304/316L
PVG-SRB-15/1/6	15	13	0-2930/1405	DN65	DN50	SS304/316L
PVG-SRB-18.5/1/6	18.5	16	0-2930/1405	DN65	DN50	SS304/316L
PVG-SRB 22/1/6	22	20	0-2930/1405	DN80	DN50	SS304/316L
PVG-SRB 30/1/6	30	28	0-1405	DN100	DN80	SS304/316L
PVG-SRB 37/1/6	37	35	0-1405	DN125	DN100	SS304/316L
PVG-SRB 45/1/6	45	42	0-1405	DN150	DN125	SS304/316L
PVG-SRB 55/1/6	55	50	0-1405	DN150	DN125	SS304/316L
PVG-SRB 75/1/6	75	60	0-1405	DN175	DN150	SS304/316L

VIII) Inline High Shear Emulsifier (Three Stages)

General

Inline high-shear Emulsifier is a continuous production type emulsifier with high efficiency. It processes materials in continuous production or circulation of fine materials. The motor drives the rotor to rotate at high speed. It narrows the particle size of liquid-liquid and liquid-solid materials through external mechanical force and distribute one phase materials into another phase or may other phases evenly to realize good homogenizing, dispersing and emulsifying result. As a result, the materials become stable emulsion. It can be equipped with materials transfer pump in front of it to make it suitable for materials with mid-and-high viscosity. The materials are thoroughly dispersed and sheared after going through it. It is characterized in low noise and stable running, short transfer distance and low head.

[Materials Viscosity]: ≤ 20000 cps

[Production Capacity]: ≤ 200 m³/h

[Application Industry]: Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food , ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click “Free Consultation”)

[Application Materials]: Applicable for production process for solution, gel. Suspension or emulsion of solid – liquid, liquid – liquid materials such as juice, soup bases, milk Production, tissue homogenate, cosmetics, surfactants, asphalt, emulsifier, oil field chemicals etc.

Product Advantage

Easy operation

Connecting with pipeline or container outlet, easy installation, good delivery capacity and no need for extra delivery pump.

High efficiency, finished products with good quality

With linear velocity over 20m/s. it can distribute one phase materials into another phase or may other phase evenly in a short period to obtain excellent homogenizing, dispersing emulsifying result. The finished products are with stable quality and not easy to be laminated.

High precision processing

The Stator and rotor are forging materials processed in CNC machining center. The clearance between the state and rotor is very small to get good shearing result, high emulsifying and dispersing efficiency. And the stator and rotor also can be coated with Nano materials to extend their service life.

Customized options

Material can be customized to be SS304/SS321/SS316L or non-conventional materials such as titanium alloy etc. according to requirements.

Mechanical seal and pressure balance tank can be configured to meet with pressurized working condition:

It can also customize to be explosion- proof type.

Technical parameter

Model	Power (kw)	Capacity (m³/h)	Speed (rpm)	Inlet (mm)	Outlet (mm)	Materials
PVG-SRB4/3	1.1	4	0-2930	DN40	DN32	304/316L
PVG-SRB7.5/3	2.2	6	0-2930	DN50	DN40	304/316L
PVG-SRB11/3	4	9	0-2930	DN50	DN50	304/316L
PVG-SRB-15/	15	12	0-2930	DN65	DN50	304/316L
PVG-SRB-18.5/3	18.5	14	0-2930/1405	DN65	DN55	304/316L
PVG-SRB 22/3	22	18	0-2930/1405	DN80	DN65	304/316L
PVG-SRB 30/3	30	25	0-2930/1405	DN100	DN80	304/316L
PVG-SRB 37/3	37	30	0-2930/1405	DN100	DN100	304/316L
PVG-SRB 45/3	45	38	0-2930/1405	DN125	DN100	304/316L
PVG-SRB 55/3	55	47	0-2930/1405	DN125	DN100	304/316L
PVG-SRB 75/3	75	60	0-2930/1405	DN150	DN125	304/316L
PVG-SRB 90/3	90	70	0-1405	DN150	DN125	304/316L
PVG-SRB 110/3	110	80	0-1405	DN150	DN125	304/316L
PVG-SRB 160/3	160	100	0-1405	DN200	DN150	304/316L
PVG-SRB 200/3	200	120	0-1405	DN200	DN150	304/316L

IX) Jet mixture Dispersing Emulsifier

General

Jet mixer Dispersing Emulsifier is the best option for some materials when simple mix cannot meet the production requirements and the dispersing function of the High-speed Dispersing Emulsifier is too strong. It produces powerful macro and micro mixing, which can fully disperse materials, no need for any other high shearing device to assist. Jet mixer Dispersing Emulsifier can generate ideal dispersing and mixing power to meet requirements of different production technology, easy to operate. It is suitable for production process such as sugar dissolving, powder dissolving, glue melting, suspension liquid, reaction acceleration, dispersing, mixing and depolymerizing of nano materials and light powder.

[Materials Viscosity]: ≤ 1000000 cps

[Production Capacity]: ≤ 20 m³/h batch

[Application Industry]: Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food, ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click “Free Consultation”)

[Application Materials]: Applicable for production process for solution, gel. Suspension or emulsion of solid – liquid, liquid – liquid materials such as juice, soup bases, milk Production, tissue homogenate, cosmetics, surfactants, asphalt, emulsifier, oil field chemicals etc.

Product Advantage

Easy operation

Connecting with pipeline or container outlet, easy installation, good delivery capacity and no need for extra delivery pump.

Various installation ways

With compact structure, it can be fixed type (fixed on the cover) and lifting type (pneumatic, hydraulic, etc.) working together with movable tank.

With wide materials range

The unique design of the equipment can mix liquid and powdered materials thoroughly with comparatively big difference in specific gravity. It is with good adaptability for materials with high viscosity, mid viscosity, and low viscosity.

Technical parameter

Model	Power (kw)	Capacity (m ³ /batch)	Speed (rpm)	Sealing type	Materials
PVG-SRHJ-4	4	50-150	0-2930	Lip seal/ mechanical seals	304/316L
PVG-SRHJ-4	4	100-400	0-2930	Lip seal/ mechanical seals	304/316L
PVG-SRHJ-7.5	7.5	200-1000	0-2930	Lip seal/ mechanical seals	304/316L
PVG-SRHJ-11	11	300-1000	0-2930	Lip seal/ mechanical seals	304/316L
PVG-SRHJ-15	15	400-1800	0-2930/1405	Lip seal/ mechanical seals	304/316L
PVG-SRHJ-18.5	18.5	500-2000	0-2930/1405	Lip seal/ mechanical seals	304/316L
PVG-SRHJ-22	22	800-2500	0-2930/1405	Lip seal/ mechanical seals	304/316L
PVG-SRHJ-30	30	1000-3500	0-/1405	Lip seal/ mechanical seals	304/316L
PVG-SRHJ-37	37	1500-6000	0-1405	Lip seal/ mechanical seals	304/316L
PVG-SRHJ-45	45	2000-7000	0-1405	Lip seal/ mechanical seals	304/316L
PVG-SRHJ-55	55	2000-10000	0-1405	Lip seal/ mechanical seals	304/316L
PVG-SRHJ-75	75	3000-12000	0-1405/960	Lip seal/ mechanical seals	304/316L
PVG-SRHJ-90	90	4000-15000	0-1405/960	Lip seal/ mechanical seals	304/316L
PVG-SRHJ-110	110	5000-17000	0960	Lip seal/ mechanical seals	304/316L

X) Lab High Shear Emulsifier

General

Lab Hig-shear Emulsifier is alab machine dsigned for small quantity experiment in lab. It narrows the particle size of Liquid-liquid and liquid-solid materials through external mechanical force and distrubites one phase materials into another phase or many other phases evenly to realize good homogenizing, dispersing and emulsifying resuldt. As a result, the materials become stable emulsion. Several workheads are available. The smallest applicable container is standard tube with diameter 15 mm.

[Materials Viscosity]: ≤ 5000 cps

[Production Capacity]: ≤ 5 L/batch

[Application Industry]: Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food , ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click “Free Consultation”)

[Application Materials]: Applicable for production process for solution, gel. Suspension or emulsion of solid – liquid, liquid – liquid materials such as juice, soup bases, milk Production, tissue homogenate, cosmetics, surfactants, asphalt, emulsifier, oil field chemicals etc.

Product Advantage

High efficiency, high product quality

The speed can go up to 12000rpm. It is able to disperse powder/liquid into liquid rapidly. The stator and root processed with high precision is with tiny clearance. Materials under strong shearing force can be dispersed even and become good suspension.

Easy operation

Equipped with lock handle, can be lifted and fixed quickly, Electrical control and drive motor is integrated, convenient to control. With digital display, easy to read and to set related value.

Wide range application

Equipped with long hole, round hole, mesh and other different forms for the stator to meet the requirements of different materials.

Technical Parameter

Model	Voltage	Power (w)	Speed (rpm)	Adjusting speed way	Speed display	Rotor head diameter (mm)	Stator head specifications (mm)	Materials Capacity (L)	Capacity (L)	Lifting
PVG-SRH-S450	240V 50Hz	450	0-12000	Button type, various speed control	Digital display	Ø28	Mesh, long hole, round hole	Material contacting part SS304	0.2-5	Manual lifting

XI) Lab Homogenizer

General

Lab High-shear Homogenizer is a lab machine designed for small quantity experiment in lab. It narrows the particle size of Liquid-liquid and liquid-solid materials through external mechanical force and distributes one phase materials into another phase or many other phases evenly to realize good homogenizing, dispersing and emulsifying results. As a result, the materials become stable emulsion. Several workheads are available. The smallest applicable container is standard tube with diameter 15 mm.

[Materials Viscosity]: ≤ 5000 cps

[Production Capacity]: ≤ 1000 ML/batch

[Application Industry]: Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food, ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click “Free Consultation”)

[Application Materials]: Applicable for production process for solution, gel. Suspension or emulsion of solid – liquid, liquid – liquid materials such as juice, soup bases, milk Production, tissue homogenate, cosmetics, surfactants, asphalt, emulsifier, oil field chemicals etc.

Product Advantage

High efficiency, high product quality

The speed can go up to 12000rpm. It is able to disperse powder/liquid into liquid rapidly. The stator and rotor processed with high precision is with tiny clearance. Materials under strong shearing force can be dispersed evenly and become good suspension.

Easy operation

Equipped with a lock and the lifting handle, and the machine can be fast lifted and fixed. Homogenizing head easy to disassembly. It is easy to change and clean.

Wide application range

The working head smallest diameter is 12 mm. It can work with a 15ml test tube.

Technical parameter

Model	Voltage	Power (w)	Speed (rpm)	Way of speed control	Speed Display	Stator head specifications (mm)	Materials Capacity (L)	Capacity (L)	Lifting
PVG-SRH-S300	240V 50HZ	300	0-28000	Button type, various speed control	Scale display	Ø12, Ø18	Contacting part SS304	10-1000	Manual

XII) Up-Spray Dispersing Emulsifier

General

Up-spray Dispersing Emulsifier consists of main shaft, the body, the baffle and other parts. The specially designed rotor rotation at high speed sucks the materials at the bottom of the container to the stator and rotor area for shearing. And a adjustable baffle over the emulsifying work head stop the upward sprayed materials and spreads around, finally go back to the bottom. This whole circulation repeats, which disperse and mix materials in a short time.

[Materials Viscosity]: ≤ 20000 cps

[Production Capacity]: $\leq 4\text{m}^3/\text{batch}$

[Application Industry]: Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food , ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click “Free Consultation”)

[Application Materials]: Applicable for production process for solution, gel. Suspension or emulsion of solid – liquid, liquid – liquid materials such as juice, soup bases, milk Production, tissue homogenate, cosmetics, surfactants, asphalt, emulsifier, oil field chemicals etc.

Product Advantage

High efficiency, high product quality

Special sigh of the stator and rotor, which disperse the power in the material quickly. The finished products are with good quality and high stability.

High precision processing and long service life

The Stator and rotor are forging materials processed in CNC machining center. The clearance between the state and rotor is very small to ensure excellent emulsifying and dispersing efficiency. And the stator and rotor with special treatment can extend their service life.

Structure advantage

It can realize mixing, dispersing, shearing functions in a short time. The upper baffle plate is adjustable according to different production processes.

Patent advantage

The equipment is out product with New Utility Model Patent.

Technical Parameter

Model	Power (kw)	Capacity (m ³ /batch)	Speed (rpm)	Sealing type	Materials
PVG-SRHP-1.5	1.5	100	0-5960	Lip seal/ mechanical seals	304/316L
PVG-SRHP-2.2	2.2	200	0-5960	Lip seal/ mechanical seals	304/316L
PVG-SRHP-3	3	300	0-5960	Lip seal/ mechanical seals	304/316L
PVG-SRHP-4	4	500	0-2930	Lip seal/ mechanical seals	304/316L
PVG-SRHP-7.5	7.5	1000	0-2930	Lip seal/ mechanical seals	304/316L
PVG-SRHP-11	11	1500	0-2930	Lip seal/ mechanical seals	304/316L
PVG-SRHP-15	15	2000	0-2930/1405	Lip seal/ mechanical seals	304/316L
PVG-SRHP-22	22	3000	0-2930/1405	Lip seal/ mechanical seals	304/316L
PVG-SRHP-30	30	4000	0-1405	Lip seal/ mechanical seals	304/316L

XII) Vacuum Emulsifying Mixing Unit

General

Vacuum emulsifying mixing unit is consisted of homogenizing emulsifying pit (lifting cover, tilting pot body), water pot, oil pot, scrap dual mixing, vacuum system, electric heating or steam heating temperature control system, electric control, etc. it is the equipment for top grade medicinal ointment, cream, emulsion.

[Production Capacity]: 5-20000L

[Application Industry]: Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food, ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click “Free Consultation”)

[Application Materials]: Applicable for production process for solution, gel. Suspension or emulsion of solid – liquid, liquid – liquid materials such as juice, soup bases, milk Production, tissue homogenate, cosmetics, surfactants, asphalt, emulsifier, oil field chemicals etc.

Product Advantages

Safe production

Main pot emulsifying process was conducted under the totally sealing condition, which prevents the pollution of the dust and microorganism. The material water and oil pot vacuum feeding way to the main emulsifying pot. The discharge is the main pot turn and dumping. The whole set structure is three layers jacket. The heating and cooling in one jacket outer is aluminum silicate thermal insulation layer, which can prevent the workers be scalded, and ensure the safety.

Temperature Control

Use the electricity heating pipe heat the heat-conducting medium within the pot to realize the heating for the material. The heating temperature can be set. It can also use steam heating. The material can be cooling by connection the cooling water in the interlayer. The operation is simple, convenient, and interlayer is equipped with insulation layer outside.

High efficiency blending without residue.

The material in pot is cut dispersing and emulsifying through the homogenizer high speed inner circulation. Blending in forward and reverse direction with frame type agitator mixing and

counterclockwise needle impeller. The scraper agitator generate centrifugal effect during operation, which mae the PTFE scrawper clingy to the pot wall, which effectively solve the problem of the wall residue and leav no dead Angle. The iverterr make the various speed control possible. Homogenixing mixing and impeller agitator can be used separetely or at the same time. The dipersing, homogenizing emulsifying, mixing of material cn be finished in a short time.

Clean

The contact part with material adopt high quality stainless steel, and the product meet the GMP requirements.

Technical Parameter

Mode 1	Emulsifying pot								Water pot				Oil pot			
Mode 1	Volu me(L)	Blindi ng power (kw)	Blindi ng power (rpm)	Emulsif ying power (kw)	Emulsi fying power (rpm)	Electri cal heatin g power (kw)	Vacuum pump power (kw)	Liftin g	Tota l volu me (L)	Blendi ng power (L)	Blendi ng speed (rpm)	Electri cal heatin g power (rpm)	Total volu me (L)	Ble ndin g pow er (L)	Blendi ng speed (rpm)	Electri cal heatin g power (rpm)
PVG-SRZJ-5	6	0.37	0-100	0-75	0-2880	2	0.37	Manu al	5	0.18	1400	1	5	0.18	1400	1
PVG-SRZJ-10	10	0.37	0-100	0-75	0-2880	2	0.37	Manu al	7.5	0.18	1400	1	7.5	0.18	1400	1
PVG-SRZJ-50	50	1.5	0-86	2.2	0-2880	2	0.37	Electri c	38	0.55	1400	2	38	0.55	1400	2
PVG-SRZJ-100	100	1.5	0-86	4	0-2880	6	0.37	Electri c	60	0.55	1400	4	60	0.55	1400	4
PVG-SRZJ-150	150	2.2	0-86	5.5	0-2880	6	0.75	Electri c	100	0.55	1400	6	100	0.55	1400	6
PVG-SRZJ-200	200	2.2	0-86	5.5	0-2880	8	0.75	Electri c	120	0.75	1400	8	120	0.75	1400	8
PVG-SRZJ-350	350	4	0-86	7.5	0-2880	12	1.5	Hydra ulic	250	0.75	960	12	250	0.75	960	12
PVG-SRZJ-500	500	5.5	0-65	11	0-2880	15	1.5	Hydra ulic	300	1.1	960	15	300	1.1	960	12
PVG-SRZJ-850	850	7.5	0-65	18.5	0-1440	18	3	Hydra ulic	500	1.1	960	18	500	1.1	960	12
PVG-SRZJ-1000	1000	7.5	0-65	18.5	0-1440	24	3	Hydra ulic	650	1.5	960	18	650	1.5	960	18
PVG-SRZJ-1300	1300	11	0-45	22	0-1440	24	4	Hydra ulic	800	1.5	960	18	800	1.5	960	18
PVG-SRZJ-2000	2000	15	0-45	30	0-1440	36	5.5	Hydra ulic	1200	2.2	960	24	1200	2.2	960	18

3) High Speed Dispersers

I) Closed, Vacuum High Speed Disperser(Hydraulic Lifting)

General

Vacuum High-speed Disperser is a functional machine developed base on the standard High-speed Disperser. A closer lid, with spring seal ring mounted in a milling groove of the cover flange, is completely closed with tank and ensures no air leakage under vacuum operation surroundings.

Vacuum pumps are option whose limited vacuum degree can be -0.0998 map (20mbar). It shows excellent performance during special dispersing condition such as vacuum defaming, vacuum charging, inert gases protection and etc.

[Materials Viscosity] : ≤ 1000000 cps

[Production Capacity] :50-10000 L

[Application fields] : Perfect meet the requirement of dispersing and mixing materials in industries such as biology, pharmaceuticals, food, paint, ink, adhesive, pigment, pesticide and etc.. (Please click 'Free

[Application Materials] :good for all kinds of slurries with viscosity less than 100,00cps, and solid content less than 60%, such as emulsion paint, industrial paint, water-based ink, pesticide, aspersive and etc.

Working Principle

Through the high-speed rotation dispersing disc, the material will become in annular form flow, resulting in strong vortex flow, which descend down to the bottom of the vortex in spiral state, during the process, materials are dispersed, dissolved, mixed and emulsified efficiently due to the strong shearing crash and friction among the particles.

The hydraulic pump drives the hydraulic cylinder ascend and descend, which drives the whole transmission, working se and closed cover up and down. And during operation, the cover and tank is completely closed to realize vacuum dispersing result with the help of vacuum system.

Product Advantage

High efficiency, better quality

The max rotation speed can be up to 2930rpm (For bigger power, 1450rpm), linear velocity is over 20m/s, it can rapidly disperse the powder in the liquid evenly. Due to its high shear forces. The material will be uniformly dispersed and formed a goo suspension effect. Due to the strong shearing force. The materials are dispersed evenly and form good suspension effect.

Safe and higher environmental protection index

The device can be totally closed with the help of a closed lid and generate a high vacuum degree space, which contributes directly to avoid the solution volatilization. All the working condition can be supervised with the help of the sight glass with a lamp. In addition, sanitary manhole is valued for cleaning and charging materials.

Various Installation ways

With compact structure, the machine can be floor type and platform type. Tank working with the mixer can be removable type or fixed type.

Customizes Options

Different options are available such as explosion-proof type, closed type, multi-tank type, with lifting core type. Co-axial type/dual-shaft type mounted on kettle type etc. Material can be customized to be SS304/SS321/SS316L.

Technical parameter

Model	Power supply (kw)	Speed (rpm)	Disc dia. (mm)	Material	Capacity (L)	Hydraulic power (kw)	Lifting (mm)	Weight (kg)
PVG-SFSM-1.5	1.5	0-1450	120	Contacting part is SS304	≤60	0.55	600	500
PVG-SFSM-4	4	0-1450	200	Contacting part is SS304	≤200	0.55	900	700
PVG-SFSM-7.5	7.5	0-1450	230	Contacting part is SS304	≤400	0.55	900	900
PVG-SFSM-11	11	0-1450	250	Contacting part is SS304	≤500	0.55	900	1100
PVG-SFSM-15	15	0-1450	280	Contacting part is SS304	700	0.55	900	1200
PVG-SFSM-18.5	18.5	0-1450	300	Contacting part is SS304	800	0.75	900	1400
PVG-SFSM-22	22	0-1450	350	Contacting part is SS304	1000	0.75	1100	1600

PVG-SFSM-30	30	0-1450	400	Contacting part is SS304	1500	0.75	1100	1800
PVG-SFSM-37	37	0-1450	400	Contacting part is SS304	2000	1.1	1600	2000
PVG-SFSM-45	45	0-1450	450	Contacting part is SS304	2000	1.1	1600	24000
PVG-SFSM-55	55	0-1450	500	Contacting part is SS304	25000	1.1	1600	26000
PVG-SFSM-75	75	0-950	550	Contacting part is SS304	4000	2.2	1800	2800
PVG-SFSM-90	90	0-950	600	Contacting part is SS304	6000	2.2	1800	3200
PVG-SFSM-110	110	0-950	700	Contacting part is SS304	8000	3	2100	3500
PVG-SFSM-132	132	0-950	800	Contacting part is SS304	10000	3	2300	4000

II) CP-Axial Dual Shaft (High Speed Dispersar (Hydraulic Lifting)

General

Co-axial high-speed Disperser (Hydraulic Lifting) is a product with dispersing and scraping function developed based on single-shaft disperser. During dispersing process, scraper can rotate along the tank wall and generates a radial mixing flow. In addition, the PTFE scraper can scrape the materials on the tank off efficiently. It is good for processing the materials with mid-and-high viscosity and thixotropic property. The finished products can be discharged completely and the tank is easy to clean.

[Materials Viscosity] : ≤ 1000000 cps

[Production Capacity] : 50-10000 L

[Application fields] : Perfect meet the requirement of dispersing and mixing materials in industries such as biology, pharmaceuticals, food, paint, ink, adhesive, pigment, pesticide and etc.. (Please click 'Free

[Application Materials] : good for all kinds of slurries with viscosity less than 100,00cps, and solid content less than 60%, such as emulsion paint, industrial paint, water-based ink, pesticide, aspersive and etc.

Working Principle

Through the high-speed rotation dispersing disc, the material will become in annular form flow, resulting in strong vortex flow, which descend down to the bottom of the vortex in spiral state, during the process, materials are dispersed, dissolved, mixed and emulsified efficiently due to the strong shearing crash and friction among the particles.

PTFE scraper rotates clinging to the tank wall to scrape the materials staying on the tank wall off and also enhances the materials circulation.

The hydraulic pump drives the hydraulic cylinder ascend and descend, which drives the whole transmission, working set up and down.

Product Advantages

Higher efficiency, better quality

The linear velocity is over 20m/s. meanwhile, it can disperse the powder materials in to liquid rapidly

Easier and safer operation

Adopt hydraulic cylinder as lifting actuator. Control the hydraulic up, stop, down through the oil pump, easy operation and stable. The dispersing discs is fixed to the main shaft with Hexagon socket. Head cap screws. Which can be disassembled and exchanged quickly. Easy to clean.

Clean discharging and easy maintenance

Scraper perfectly solves the problem of materials staying on the wall. The scraper is designed to be adjustable. And they cling to the tank wall always under the counterforce action of materials. With long service life. The scraper fixed with bolts can be replaced easily.

Customized Options

Can be customized to meet users' requirements, such as explosion-proof, vacuum type, disperser with multi-vessel with the materials in SS321 and SS316.

Technical parameter

Model	Dispersing power (kw)	Dispersing Speed (rpm)	Disc dia. (mm)	Scraper power (kw)	Scraper Speed (rpm)	Material	Capacity (L)	Hydraulic power (kw)	Lifting (mm)	Weight (kg)
PVG-SFST-7.5	7.5	0-1450	230	1.5	60	Contacting part is SS304	≤ 400	0.55	900	900
PVG-SFST-11	11	0-1450	250	2.2	42	Contacting part is SS304	≤500	0.55	900	1100
PVG-SFST-15	15	0-1450	280	2.2	32	Contacting part is SS304	≤700	0.55	900	1200
PVG-SFST-18.5	18.5	0-1450	300	3	32	Contacting part is SS304	≤800	0.75	1100	1400
PVG-SFST-22	22	0-1450	350	3	32	Contacting part is SS304	≤1000	0.75	1100	1500
PVG-SFST-30	30	0-1450	400	4	20	Contacting part is SS304	≤1500	0.75	1100	1600
PVG-SFST-37	37	0-1450	400	4	20	Contacting part is SS304	≤2000	1.1	1600	1700

PVG-SFST-45	45	0-1450	450	4	16	Contacting part is SS304	≤2000	1.1	1600	2000
PVG-SFST-55	55	0-1450	500	5.5	16	Contacting part is SS304	≤2500	1.1	1600	2300
PVG-SFST-75	75	0-1450	550	5.5	16	Contacting part is SS304	≤4000	2.2	1800	2600
PVG-SFST-90	90	0-950	600	7.5	14	Contacting part is SS304	≤6000	2.2	1800	2900
PVG-SFST-110	110	0-950	700	7.5	14	Contacting part is SS304	≤8000	3	2100	3500
PVG-SFST-132	132	0-950	800	7.5	12	Contacting part is SS304	≤10000	3	2300	4000

III) Dual shaft (high speed dispersar(Hydrolic lifting)

General

Dual-shaft High-Speed Disperser (Hydraulic Lifting) is a machine with dispersing and mizing (Scraper) function developed based on single shaft ons. It is good for the materials with mid-and-high viscosity and thixotropy roperty. Dispersing and mixing of materials can work at same time, which matech it more adaptable. It also can be customized based on the materiasl property and production technology.

[Materials Viscosity] : ≤ 1000000 cps

[Production Capacity] : 50-50000 L

[Application fields] : Perfect meet the requirement of dispersing and mixing materials in industries such as biology, pharmaceuticals, food, paint, ink, adhesive, lithium battery slurryand etc.. (Please click 'Free Consultation'for more information)

[Application Materials] : Good for all kinds of slurries with viscosity less than 100,000cps, and solid content less than 80%, such as putty, UV ink, structural adhesive, anaerobic adhesive and etc.

Working Principle

Throuh the high-speed rotation dispersing disc, the materials will become in annular form flow, resulting in strong vortex flow, which descend down to the bottom of the vortex in spiral state. During the process, materials are dispersed, dissolved, mixed and emulsified emulsified efficiently due to the strong shearing crash and friction among the particles.

The butterfly agitator will generate excellent axial and radial action to enhance the materials circulation, so the dispersing efficiency will be improved significantly.

The hydraulic pump drives the hydraulic cylinder to go up and down, which drives the whole transmission and working set up and down.

Product advantages

Higher efficiency, better quality

The linear velocity is over 20m/s, meanwhile it can disperse the powder materials in to liquid rapidly. The unique design of the butterfly agitator is with a good mixing performance. Dispersing and mixing together to ensure the finished products with good quality.

Safer and easier operation

Adopt hydraulic cylinder as lifting actuator. Control the hydraulic up stop, down through the oil pump, easy operation and stable. The dispersing disc is fixed to the main shaft with hexagon socket-head cap screws, which can be disassembled and exchanged quickly, easy to clean.

Various installation types

Different design of dispersing disc and agitators based on different production technology and materials property ensures the best dispersing and mixing result. The agitator can be with scraper to avoid mixing dead zones, prevent materials from staying on the wall to better the uniformity of the products.

Customized Options

Different options are available such as explosion-proof type, closed type, etc...Material can be customized to be SS304/SS321/SS316L.

Technical Parameter

Model	Dispersing power (kw)	Dispersing Speed (rpm)	Mixing power (kw)	Mixing speed (rpm)	Material	Capacity (L)	Hydraulic power (kw)	Lifting (mm)
PVG-SFSD-50	3	0-2880	2.2	0-180	Contacting part is SS304	≤ 40	1.1	500
PVG-SFSD-200	7.5	0-1450	4	0-150	Contacting part is SS304	≤160	1.5	800
PVG-SFSD-300	11	0-1450	7.5	0-120	Contacting part is SS304	≤240	1.5	900
PVG-SFSD-500	18.5	0-1450	11	0-120	Contacting part is SS304	≤400	2.2	1000
PVG-SFSD-800	30	0-1450	18.5	0-100	Contacting part is SS304	≤ 640	4	1100
PVG-SFSD-1000	37	0-1450	22	0-100	Contacting part is SS304	≤800	5.5	1200
PVG-SFSD-1300	45	0-1450	30	0-100	Contacting part is SS304	≤ 1000	5.5	1300
PVG-SFSD-1500	55	0-1450	37	0-80	Contacting part is SS304	≤ 1300	5.5	1400
PVG-SFSD-2000	75	0-1450	45	0-80	Contacting part is SS304	≤ 1600	7.5	1600

IV) High Speed Disperser With Multi Tank (Hydraulic Lifting)

General

High-speed Disperser with multi-tanks (hydraulic Lifting) is for dispersing and mixing materials with mass production. With inverter various speed control, can be used continuously for a long time, stable operation and low noise. The dispersing disc is easy to be disassembled, Dispersing discs with different sizes and different design can be designed according to the production technology. Lifting structure adopts hydraulic cylinder as actuator, stable lifting, integrated hydraulic station, environmental and without leakage. Equipped with rotation structure can work with 2-4 tanks.

[Materials Viscosity] : ≤ 1000000 cps

[Production Capacity] : 50-20,000 L

[Application Industry] : Perfect meet the requirement of dispersing and mixing materials in industries such as biology, pharmaceuticals, food, paint, ink, adhesive, lithium battery slurry and etc.. (Please click 'Free Consultation' for more information)

[Application Materials] : Good for all kinds of slurries with viscosity less than 100,000cps, and solid content less than 80%, such as emulsion paint, industrial paint water-based ink pesticide, adhesive and etc.

Working Principle

Through the high-speed rotation dispersing disc, the materials will become in annular form flow, resulting in strong vortex flow, which descend down to the bottom of the vortex in spiral state. During the process, materials are dispersed, dissolved, mixed and emulsified efficiently due to the strong shearing crash and friction among the particles.

With electric steering motor and limit sheath, the machine can work with any of the tank around it through the work head rotation.

The hydraulic pump drives the hydraulic cylinder to go up and down, which drives the whole transmission and working set up and down.

Product advantages

Higher efficiency, better quality

The max. rotation can be up to 2930rpm (For bigger power. 1450rpm) linear velocity is over 20m/s. it can rapidly disperse the powder in the liquid evenly. Due to its high shear forces. The material will be uniformly dispersed and formed a good suspension effect. Due to the strong shearing force. The materials are dispersed evenly and form good suspension effect.

Easier and safer operation

Adopt hydraulic cylinder as lifting actuator. Control the hydraulic up. Stop. Down through the oil pump, easy operation and stable. The dispersing disc is fixed to the main shaft with hexagon socket-head cap screws, which can be disassembled and exchanged quickly, easy to clean. Different dispersing discs are optional accordingly to production process to obtain optimized dispersing effect. With electric steering motor and limit switch, it can realize one machine for multi-tanks

Customized Options

Different options are available such as explosion-proof type, with scraper type etc... Material can be customized to be SS304/SS321/SS316L.

Technical parameter

Model	Motor power (kw)	Speed (rpm)	Disc Dia (mm)	Material	Capacity (L)	Hydraulic power (kw)	Lifting (mm)	Weight (kw)
PVG-SFSH-7.5	7.5	0-2880	230	Material Contact SS304	≤ 400	0.55	900	800
PVG-SFSD-11	11	0-1450	250	Same as above	≤500	0.55	900	1000
PVG-SFSD-15	15	0-1450	280	Same as above	≤700	0.55	900	1100
PVG-SFSD-18.5	18.5	0-1450	300	Same as above	≤800	0.75	1000	1300
PVG-SFSD-22	22	0-1450	350	Same as above	≤ 1000	0.75	1100	1400
PVG-SFSD-30	30	0-1450	400	Same as above	≤1500	0.75	1100	1500
PVG-SFSD-37	37	0-1450	400	Same as above	≤ 2000	1.1	1600	1600
PVG-SFSD-45	45	0-1450	450	Same as above	≤ 2000	1.1	1600	2000
PVG-SFSD-55	55	0-1450	500	Same as above	≤ 2500	1.1	1600	2100
PVG-SFSD-75	75	0-1450	550	Same as above	≤ 4000	2.2	1800	2300
PVG-SFSD-90	90	0-950	600	Same as above	≤ 6000	2.2	1800	2600
PVG-SFSD-110	110	0-950	700	Same as above	≤ 8000	3	2100	3100
PVG-SFSD-132	132	0-950	800	Same as above	≤ 10000	3	2300	3600

V) High Speed Dispersar With Multi Tank(Hydrolic Lifting)

General

High-speed Disperser with multi-tanks (Hydraulic Lifting) has dispersing and mixing function, which used for mass production: Equipment with inverter has stepless speed, can operate for a long time. It has stable running and low noise: Mixing, disc is easy to be replaced, and can change different forms of dispersing discs according to production technology: Lifting structure adopts hydraulic cylinder as actuator, stable lifting, integrated hydraulic station, environmental and without leakage. It is an ideal grinding machine for materials with many varieties and many colors.

[Materials Viscosity] : ≤ 100000 cps

[Production Capacity] : 50-20000 L

[Application Industry] : Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food, ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click "Free Consultation")

[Application Materials] : Materials under 100000cps viscosity, and solid content under 80% of all kinds of slurry such as emulsion paint, industrial paint, water-based ink, pesticides, adhesives etc.

Working Principle

Through the high-speed rotation dispersing disc, the material will become in annular form flow, resulting in strong vortex flow, which descend down to the bottom of the vortex in spiral state, during the process, materials are dispersed, dissolved, mixed and emulsified efficiently due to the strong shearing crash and friction among the particles.

The hydraulic pump drives the hydraulic cylinder ascend and descend, which drives the whole transmission, working set up and down. up and down.

Product Advantage

High efficiency, better quality

The max rotation speed can be up to 2930rpm (For bigger power, 1450rpm), linear velocity is over 20m/s, it can rapidly disperse the powder in the liquid evenly. Due to its high shear forces. The material will be uniformly dispersed and formed a good suspension effect. Due to the strong shearing force. The materials are dispersed evenly and form good suspension effect.

Safe and convenient operation

Adopt hydraulic cylinder as lifting actuator. Control the hydraulic up, stop, down through the oil pump, easy operation and stable. The dispersing disc is fixed to the main shaft with Hexagon socket-head cap screws. Which can be disassembled and exchanged quickly, easy to clean? Different dispersing discs can be exchanged accordingly to production process to obtain optimized dispersing result. Different clamping types (Belt Clamping. Manual Rotation Clamping. Pneumatic Clamping) are optional to fix the tanks properly to preventform; accident due to the tank displacement during operation.

Various Installation ways

With compact structure, the machine can be floor type and platform type. Tank working with the mixer can be removable type or fixed type.

Customizes Options

Different options are available such as explosion- proof type, closed type, multi-tanks tie, with lifting core type. Co-axial type/dual-shaft type mounted on kettle type etc. Material can be customized to be SS304/SS321/SS316L.

Technical Parameter

Model	Power supply (kw)	Speed (rpm)	Disc dia. (mm)	Material	Capacity (L)	Hydraulic power (kw)	Lifting (mm)	Wight (kg)
PVG-SFSY-1.5	1.5	0-1450	120	SS304	≤60	0.55	600	400
PVG-SFSY-4	4	0-1450	200	SS304	≤200	0.55	900	600
PVG-SFSY-7.5	7.5	0-1450	230	SS304	≤400	0.55	900	800
PVG-SFSY-11	11	0-1450	250	SS304	≤500	0.55	900	1000
PVG-SFSY-15	15	0-1450	280	SS304	700	0.55	900	1100
PVG-SFSY-18.5	18.5	0-1450	300	SS304	800	0.75	900	1300
PVG-SFSY-22	22	0-1450	350	SS304	1000	0.75	1100	1400
PVG-SFSY-30	30	0-1450	400	SS304	1500	0.75	1100	1500
PVG-SFSY-37	37	0-1450	400	SS304	2000	1.1	1600	1600
PVG-SFSY-45	45	0-1450	450	SS304	2000	1.1	1600	1900
PVG-SFSY-55	55	0-1450	500	SS304	25000	1.1	1600	2100
PVG-SFSY-75	75	0-1450	550	SS304	4000	2.2	1800	2300
PVG-SFSY-90	90	0-950	600	SS304	6000	2.2	1800	2600
PVG-SFSY-110	110	0-950	700	SS304	8000	3	2100	3100
PVG-SFSY-132	132	0-950	800	SS304	10000	3	2300	3600

VI) High Speed Disperser(Pneumatic Lifting)

General

High-speed Disperser (Pneumatic Lifting) is with function of both dispersing and mixing. It is a mid batch machine widely used for small batch production in factories, scientific research institutions, universities etc.. It is with inverter to realize various speed control, can run for a long time, low noise and stable option. The dispersing disc can be easily disassembled. Adopt air cylinder as actuator, environmental-friendly and pollution-free, it's the ideal equipment for small batch production.

[Materials Viscosity] : ≤ 25000 cps

[Production Capacity] : 50-500 L

[Application Industry] : Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food, ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click "Free Consultation")

[Application Materials] : Materials under 25000cps viscosity, and solid content under 60% of all kinds of slurry such as emulsion paint, industrial paint, water-based ink, pesticides, adhesives etc.

Working Principle

Through the high-speed rotation dispersing disc, the material will become in annular form flow, resulting in strong vortex flow, which descend down to the bottom of the vortex in spiral state, during the process, materials are dispersed, dissolved, mixed and emulsified efficiently due to the strong shearing crash and friction among the particles.

Through rotation the air valve or inking control the solenoid valve to operate the air cylinder, the motor and whole work head will be lift up and down accordingly.

Product Advantage

High efficiency, better quality

The max rotation speed can be up to 2930rpm (For bigger power, 1450rpm), linear velocity is over 20m/s, it can rapidly disperse the powder in the liquid evenly. Due to its high shear forces. The material will be uniformly dispersed and formed a good suspension effect. Due to the strong shearing force. The materials are dispersed evenly and form good suspension effect.

Safe and higher environmental protection index

The device can be totally closed with the help of a closed lid and generate a high vacuum degree space, which contributes directly to avoid the solution volatilization. All the working condition can be supervised with the help of the sight glass with a lamp. In addition, sanitary manhole is valued for cleaning and charging materials.

Various Installation ways

With compact structure, the machine can be floor type and platform type. Tank working with the mixer can be removable type or fixed type.

Customizes Options

Different options are available such as explosion-proof type, closed type, multi-tanks type, with lifting core type. Co-axial type/dual-shaft type mounted on kettle type etc. Material can be customized to be SS304/SS321/SS316L.

Technical parameter

Model	Power supply (kw)	Rotating (rpm)	Disc dia. (mm)	Material	Capacity (L)	Lifting (mm)	Weight (kg)
PVG-SFSQ-1.5	1.5	0-1450	120	SS304	≤60	600	250
PVG-SFSY-2.2	2.2	0-1450	150	SS304	≤ 100	600	300
PVG-SFSY-7.5	7.5	0-1450	200	SS304	≤200	800	450
PVG-SFSY-5.5	5.5	0-1450	230	SS304	≤300	800	500
PVG-SFSY-7.5	7.5	0-1450	230	SS304	400	900	600
PVG-SFSY-11	11	0-1450	250	SS304	500	900	

VII) Hydraulic High Speed Disperser With Cover

Product Introduction

High speed Disperser with lifting cover is a functional product developed based on the standard hydraulic High-speed Disperser. Its unique lifting cover structure can prevent material splash and reduce the solvent volatilization effectively. The designed flat cover through the air cylinder or sheath structure is convenient and easy. Also the cover can be designed to be with small half lid fixed with hinges, easy to open. And it is interlocked with the valve of the port connecting with the dust collector to realize dust-free materials charging and view the production situation at any time.

[Materials Viscosity] : ≤ 100000 cps

[Production Capacity] : 200-10000 L

[Application Industry] : applicable for dispersing and mixing materials in industries such as biology, medicine, food, dye, coating, ink, adhesives, pesticides and etc. (Please click "Free Consultation" for more information)

[Application Materials] : Applicable for all kinds of slurries with viscosity less than 10000cps, and solid content less than 80% such as emulsion paint, industrial paint, water-based ink, pesticides, adhesives etc.

Working Principle

Through the high-speed rotation dispersing disc, the material will become in annular form flow, resulting in strong vortex flow, which descend down to the bottom of the vortex in spiral state, during the process, materials are dispersed, dissolved, mixed and emulsified efficiently due to the strong shearing crash and friction among the particles.

The hydraulic pump drives the hydraulic cylinder ascend and descend, which drives the whole transmission, working set up and down. up and down.

Stainless steel cover (Cylinder or sheath type lifting) can be lift up and down independently to ensure it always close with the tank.

Product Advantage

High efficiency, better quality

The max rotation speed can be up to 2930rpm (For bigger power, 1450rpm), linear velocity is over 20m/s, it can rapidly disperse the powder in the liquid evenly. Due to its high shear forces. The material will be uniformly dispersed and formed a good suspension effect. Due to the strong shearing force. The materials are dispersed evenly and form good suspension effect.

Safe and convenient operation

Adopt hydraulic cylinder as lifting actuator. Control the hydraulic up, stop, down through the oil pump, easy operation and stable. The dispersing disc is fixed to the main shaft with Hexagon socket-head cap screws. Which can be disassembled and exchanged quickly, easy to clean? Different dispersing discs can be exchanged accordingly to production process to obtain optimized dispersing result. Different clamping types (Belt Clamping. Manual Rotation Clamping. Pneumatic Clamping) are optional to fix the tanks properly to prevent form; accident due to the tank displacement during operation.

Higher wenvironmental protection index

With independent sheath/lifting cover, can close with the tank to reduce the solvent volatilization.

Also the cover is with small half lid (fixed with hinges) which is interlicked with the port of the dust collector to realize powder/ additive charing through negative pressure to improve working environment.

Technical parameter

Model	Motor power (kw)	Speed (rpm)	Disc dia. (mm)	Material	Capacity (L)	Hydraulic power (kw)	Lifting (mm)	Wight (kg)
PVG-SFSG-1.5	1.5	0-1450	120	SS304	≤ 60	0.55	600	500
PVG-SFSG-4	4	0-1450	200	SS304	≤200	0.55	900	700
PVG-SFSG-7.5	7.5	0-1450	230	SS304	≤400	0.55	900	900
PVG-SFSG-11	11	0-1450	250	SS304	≤500	0.55	900	1100
PVG-SFSG-15	15	0-1450	290	SS304	≤700	0.55	900	1200
PVG-SFSG-18.5	18.5	0-1450	300	SS304	≤800	0.75	1100	1400
PVG-SFSG-22	22	0-1450	350	SS304	≤1000	0.75	1100	1600
PVG-SFSG-30	30	0-1450	400	SS304	≤1500	0.75	1100	1800
PVG-SFSG-37	37	0-1450	400	SS304	≤2000	1.1	1600	2000
PVG-SFSG-45	45	0-1450	450	SS304	≤2000	1.1	1600	2400
PVG-SFSG-55	55	0-1450	500	SS304	≤2500	1.1	1600	2600
PVG-SFSG-75	75	0-1450	550	SS304	≤4000	2.2	1800	2800
PVG-SFSG-90	90	0-950	600	SS304	≤6000	2.2	1800	3200
PVG-SFSG-110	110	0-950	700	SS304	≤8000	3	2100	3500
PVG-SFSG-132	132	0-950	800	SS304	≤10000	3	2300	4000

VII) Hydraulic High Speed Disperser with Cover

General

Lab High-speed Disperser is especially designed small- batch dispersing and mixing materials in universities, scientific research institutions, laboratory etc.. it is with digital speed display, various speed control, can run for a long time, low noise and stable operation. The dispersing disc can be easily disassembled. Simple structure and easy operation. It is an ideal laboratory test equipment.

[Materials Viscosity] : ≤ 25000 cps

[Production Capacity] : 0.2-50 L

[Application Industry] : Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food, ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click “Free Consultation”)

[Application Materials] : Suitable for all kind of non explosive nor flammable materials with viscosity less than 25000cps, solid content less than 60% such as emulsion paint, industrial paint, water-based ink etc.

Working Principle

Through the high-speed rotation dispersing disc, the material will become in annular form flow, resulting in strong vortex flow, which descend down to the bottom of the vortex in spiral state, during the process, materials are dispersed, dissolved, mixed and emulsified efficiently due to the strong shearing crash and friction among the particles.

Product Advantage

High efficiency, better quality

The max rotation speed can be up to 2930rpm (For bigger power, 1450rpm), linear velocity is over 20m/s, it can rapidly disperse the powder in the liquid evenly. Due to its high shear forces. The material will be uniformly dispersed and formed a good suspension effect. Due to the strong shearing force. The materials are dispersed evenly and form good suspension effect.

Easy and Safe Operation

With locking and lifting handle, can lift up and down and fixed manually conveniently.

The dispersing disc is fixed to the main shaft with Hexagon socket-head cap screws, which can be disassembled and exchanged quickly, easy to clean.

With manual simple clamping to fix the tanks properly to prevent from accident due to the tank displacement during operation.

Little temperature increase

The tank working with the machine is with cooling jacket. Excellent cooling result can be achieved by inputting cooling water into the jacket when the machine is running. Normally the temperature increase will be less than 10° C.

Technical Parameter

Model	Power supply (kw)	Power (rpm)	Speed (rpm)	Disc dia. (mm)	Material	Capacity (L)	Lifting (mm)	Size	Weight (kg)
PVG-SFS-S400	240/50HZ	400	0-8000	Ø50, Ø80 dispersing disc Ø45, Ø60 sand mill disc	Material Contact part SS304	0.2 – 5 with a 1.5L tank	600	270x110x530	20
PVG-SFS-S1100	240/50HZ	1100	0-8000	Ø80, Ø100 dispersing disc	Material Contact part SS304	2 – 20	600	580x550x1300	45
PVG-SFS-S2200	240/50HZ	2200	0-3000	Ø100, Ø150 dispersing disc	Material Contact part SS304	10 – 50	800	750x750x1500	100

VIII) Laboratory Multi Functional Machine

General

The lab machine is a newly developed lab machine with multi-function and with high performance. It consists of driving system supporting system, control system, working components and auxiliary system,. With the help of different working heads and optional components, one machine can carry out different working modes including Disperser, Basket Mill, Emulsifier, Mixer, Grinding mill to precision processing, intelligent HMII, all make work easy and happy.

[Materials Viscosity] : ≤ 25000 cps

[Production Capacity] : 0.2-5L

[Application Industry] : Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food, ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click "Free Consultation")

[Application Materials] : Good for all kinds of Materials (Not Explosive nor flammable material) with viscosity less than 25000cps, solid contents shall be less than 80% such as emulsion paint, industrial paint, water-borne ink etc..

Working Principle

Disperser

Through the high-speed rotation dispersing disc, the materials will be in annular form flow. As a result, strong vortex flow is generated, which descend down to the bottom of the vortex in spiral state. During the process and, the materials are dispersed, dissolved, mixed efficiently due to the strong shearing crash and friction between the particles.

Mills

The rotation motor drives the pins and dispersing disc to rotate at high speed, which makes the upper part of dispersing disc and inner grinding chamber become vacuum. The slurry is inhaled into grinding chamber. The grinding medium driven by the driving pin inside the chamber produces force in all directions, which put materials under the action of constant collision and friction to smaller the article size and narrow the particle size range. The vortex flow generated by high speed rotation dispersing disc disc absorbs materials out from the basket (grinding chamber), and the milled materials are absorbed again, excellent dispersing and grind result will be achieved.

Emulsifier

It is mainly consisted of rotor and stator, under the centrifugal force and hydraulic force generated by the high-speed rotor, the stator will put materials under comprehensive action such as strong shearing, centrifugal extrusion, crashing, hydraulic friction etc.. as the result, the solid phase, liquid phase and gas phase which is insoluble at beginning will prompt evenly dispersed and emulsified with various additives. After high-frequency circulation, stable materials with high quality are obtained in a short time.

Vacuum mixer

Supplied with exclusive vacuum dispersing tank and toothed disc, butterfly agitator, and propeller agitator. It can be connected with vacuum device to realize vacuum dispersing and mixing.

Ball Mill

Motor drives the grinding wheel rotates at high speed, which drives the beads inside the tank to do the high speed movement. The friction and crash force between the beads and materials grind the materials into smaller particles size.

Product Advantages

Steady lifting

Adopt European imported servo control lifting system with height display and control. The lifting height is settable. Steady lifting, nice appearance, aluminium made shell makes it is easy to clean.

Control system

Adopt SIEMENS HMI and PLC, OMRON programmable Vector frequency conversion controller to realize following functions:

Speed display and control, height display and control, running time display and control, output torque display, load display, total running time display, running data save and output, malfunction alarm and display.

Working head

Various working heads: Disperser, Emulsifier, Mills, Mixer are optional.

Specially designed quick joint to enable to exchange the work head quickly to realize on machine have different functions.

The main part processed by CNC processing center and CNC lathe is with high precision, stable running and long service life.

Technical Parameter

Working mode	Voltage	(w) Power (w)	Speed rpm	Working head	Capacity (L)	Lifting (mm)
Disperser	240/50HZ	1100	100-6000rpm	Ø50mm, Ø80mm, mm Ø80,100(downle layer)	2.5, 5L	Electrical lifting
Basket mill	240/50HZ	1100	100-3000rpm	<i>The grinding cavity volume</i> – 2mm zirconium bead	2.5, 5L	Electrical lifting
High shear Emulsifier	240/50HZ	1100	100-6000rpm	Two types of working heads, high shear and u-p- flow type	2.5L	Electrical lifting
Vacuum dispersing mixer	240/50HZ	1100	100-6000rpm	Tooted type dispersing disc, butterfly agitator, and propeller agitator	2.5L	Electrical lifting
Mixing mill	240/50HZ	1100	100-6000rpm	One Ø60mm and one Ø80mm polyamide grinding wheel One Ø85 mm stainless steel eccentric grinding wheel	1.5L	Electrical lifting

IX) Plat Form Type High Speed Dispenser

General

Platform type High-speed Dispenser (Hydraulic Lifting) is for dispersing and mixing materials with mass production. with inverter various speed control, can be used continuously for a long time, stable operation and low noise. The dispersing disc is easy to be disassembled. Dispersing discs with different sizes and different design can be designed according to the production technology. The dispersing set is fixed on the kettle and can move up and down within certain range. It is an ideal machine for dispersing and mixing. It is also can be customized to be mounted on kettle type.

[Materials Viscosity] : $\leq 100,000$ cps

[Production Capacity] : 50-20,000L

[Application Industry] : Perfect meet the requirement of dispersing and mixing materials in industries such as biology, pharmaceuticals, food, paint, ink, adhesive, pigment, pesticide and etc.. (Please Click Free Consultation for more information)

[Application Materials] : Good for all kinds of slurries with viscosity less than 100,000cps, and solid content less than 80 %, such as emulsion, oil, industrial paint, water-based ink, pesticide, adhesive and etc

Product Advantage

High efficiency, better quality

The max rotation speed can be up to 2930rpm (For bigger power, 1450rpm), linear velocity is over 20m/s, it can rapidly disperse the powder in the liquid evenly. Due to its high shear forces. The material will be uniformly dispersed and formed a good suspension effect. Due to the strong shearing force. The materials are dispersed evenly and form good suspension effect.

Taking the hydraulic cylinder as the lifting actuator, the dispersing disc and work in different working to obtain finished production with good uniformity. Different dispersing discs are optional for different production technology to optimize the dispersing effect.

Easy to clean and to maintain

The dispersing disc is fixed to the main shaft with Hexagon socket-head cap screws, which can be disassembled and exchanged quickly easy to clean.

Customized Option

Different options are available such as explosion- proof type, closed type, with scrape type, etc. Material can be customized to be SS304/SS321/ SS316L.

Working Principle

Through the high-speed rotation dispersing disc, the material will become in annular form flow, resulting in strong vortex flow, which descend down to the bottom of the vortex in spiral state, during the process, materials are dispersed, dissolved, mixed and emulsified efficiently due to the strong shearing crash and friction among the particles.

The hydraulic pump drives the hydraulic cylinder ascend and descend, which drives the whole transmission and workin set up and down.

Technical parameter

Model	Motor power (kw)	Speed (rpm)	Disc dia. (mm)	Material	Capacity (L)	Hydraulic power (kw)	Lifting (mm)	Wight (kg)
PVG-SFSF-7.5	7.5	0-1450	230	SS304	≤400	0.55	300	800
PVG-SFSF-11	11	0-1450	250	SS304	≤500	0.55	300	100
PVG-SFSF-15	15	0-1450	280	SS304	≤700	0.55	350	1100
PVG-SFSF-18.5	18.5	0-1450	300	SS304	≤800	0.75	350	1300
PVG-SFSF-22	22	0-1450	350	SS304	≤1000	0.75	400	1400
PVG-SFSF-30	30	0-1450	400	SS304	≤1500	0.75	400	1500
PVG-SFSF-37	37	0-1450	400	SS304	≤2000	1.1	500	1600
PVG-SFSF-45	45	0-1450	450	SS304	≤2500	1.1	500	20
PVG-SFSF-55	5.5	0-1450	500	SS304	≤3000	1.1	500	2100
PVG-SFSF-75	75	0-1450	550	SS304	≤4000	2.2	600	2300
PVG-SFSF-90	90	0-960	600	SS304	≤6000	2.2	600	2600
PVG-SFSF-110	110	0-960	700	SS304	≤8000	3	700	3100
PVG-SFSF-132	132	0-960	800	SS304	≤10000	3	800	3600

X) Vacuum Co Axial High Speed Dispenser(Hydraulic Lifting)

General

Vacuum Coaxial High-speed Dispenser (Hydraulic Lifting), developed based on the Coaxial High-speed Dispenser (Hydraulic Lifting), is a kind of product with function of dispersing, scraping, and vacuumizing. During dispersing process, scraper can rotate along the tank wall and generates a radial mixing flow. In addition, the PTFE Scraper can scrape the materials on the tank off efficiently. It is good for the materials with mid-and high viscosity and thixotropy property. The finished products can be discharged completely and the tank are easy to clean. With vacuum closed design, together with vacuum pump or the pump group. The vacuum degree can go up to -0.098mpa(20mba), it is apply to dispersing and mixing materials under special working condition like vacuum degassing, vacuum materials feeding, inert gases protection etc..

[Materials Viscosity] : $\leq 100,000$ cps

[Production Capacity] : 50-5,000L

[Application Industry] : Perfect meet the requirement of dispersing and mixing materials in industries such as biology, pharmaceuticals, food, paint, ink, adhesive, pigment, pesticide and etc.. (Please Click Free Consultation for more information)

[Application Materials] : Good for all kinds of slurries with viscosity less than 100,000cps, and solid content less than 60 %, such as emulsion opoint, industrial paint, water-based ink, pesticide, adhesive and etc.

Product advantages

High-efficiency dispersion

The linear velocity is over 20m/s, meanwhile, it can disperse the powder materials in to liquid rapidly. Discharge clean, easy to maintain. Scraper perfectly solves the problem of materials staying on the wall. The scraper is designed to be adjustable. And the cling to the tank wall always under the counterforce action of materials, with long service life. The scraper fixed with bolts can be replace easily.

Safer and higher environmental protection index

The device can be totally closed with the help of a closed lid and generate a high vacuum degree space, which contribute directly to avoid the solution volatilization. All the working condition can be supervised with the help of the sight glass and lamp. In addition, sanitary manhole is valued for cleaning and charging materials.

Customizes Options

Can be customized for various types of non-standard products, such as explosion-proof type, one machine with multi cylinder type, material can be customized according to requirements of SS321, SS316L stainless steel.

Working Principle

Through the high-speed rotation dispersing disc, the material will become in annular form flow, resulting in strong vortex flow, which descends down to the bottom of the vortex in spiral state, during the process, materials are dispersed, dissolved, mixed and emulsified efficiently due to the strong shearing crash and friction among the particles.

PTFE scraper rotates clinging to the tank wall to scrape the materials staying on the tank wall off and also enhances the materials circulation.

The hydraulic pump drives the hydraulic cylinder ascend and descend, which drives the whole transmission, working set up and down. up and down.

And during operation, the cover and tank is completely closed to realize vacuum dispersing result with the help of vacuum system.

Technical parameter

Model	Motor power (kw)	Speed (rpm)	Disc dia. (mm)	Scraper power (kw)	Scraper speed (rpm)	Material	Capacity (L)	Hydraulic power (kw)	Lifting (mm)	Weight (kg)
PVG-SFSZ-7.5	7.5	0-1450	230	1.5	60	SS304	≤400	0.55	300	1000
PVG-SFSF-11	11	0-1450	250	2.2	42	SS304	≤500	0.55	300	1200
PVG-SFSF-15	15	0-1450	280	2.2	32	SS304	≤700	0.55	350	1300
PVG-SFSF-18.5	18.5	0-1450	300	3	32	SS304	≤800	0.75	350	1500
PVG-SFSF-22	22	0-1450	350	3	32	SS304	≤1000	0.75	400	1600
PVG-SFSF-30	30	0-1450	400	4	20	SS304	≤1500	0.75	400	1800
PVG-SFSF-37	37	0-1450	400	4	20	SS304	≤2000	1.1	500	1900
PVG-SFSF-45	45	0-1450	450	4	16	SS304	≤2000	1.1	500	2200
PVG-SFSF-55	5.5	0-1450	500	5.5	16	SS304	≤2500	1.1	500	2500
PVG-SFSF-75	75	0-1450	550	5.5	16	SS304	≤4000	2.2	600	2800

PVG-SFSF-90	90	0-960	600	7.5	14	SS304	≤6000	2.2	600	3200
PVG-SFSF-110	110	0-960	700	7.5	14	SS304	≤8000	3	700	3800
PVG-SFSF-132	132	0-960	800	7.5	12	SS304	≤10000	3	800	4300

XI) Wall Mount High Speed Dispersar

General

Wall mounted high-speed Disperser is the disperser mounted to the wall, widely used in Euro market. It saves producing room significantly and especially suitable for small-batch production of products with many varieties.

[Materials Viscosity] : ≤ 100000 cps

[Production Capacity] : 200-1,500L

[Application Industry] : Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food, ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click “Free Consultation”)

[Application Materials] : Materials under 100000cps viscosity, and solid content under 80% of all ingds of slurry such as emulsion paint, industrial paint, water-based ink, pesticides, color paste etc.

Working Principle

Through the high-speed rotation dispersing disc, the material will become in annular form flow, resulting in strong vortex flow, which descend down to the bottom of the vortex in spiral state, during the process, materials are dispersed, dissolved, mixed and emulsified efficiently due to the strong shearing crash and friction among the particles.

Through the manual rotation device to drive the dispersing disc up and down to meet the production requirements. set up and down. up and down.

Product Advantage

High efficiency, better quality

The max rotation speed can be up to 2930rpm (For bigger power, 1450rpm), linear velocity is over 20m/s, it can rapidly disperse the powder in the liquid evenly. Due to its high shear forces. The material will be uniformly dispersed and formed a good suspension effect. Due to the strong shearing force. The materials are dispersed evenly and form good suspension effect.

Small space occupation

The machine is mounted to the wall, saving producing spaces.

Technical parameter

Model	Motor Power (kw)	Speed (rpm)	Disc dia. (mm)	Material	Capacity (L)	Lifting (mm)	Weight (kg)
PVG-SFSW-4	4	0-1450	200	SS304	≤ 200	900	500
PVG-SFSW-7.5	7.5	0-1450	230	SS304	≤ 400	900	600
PVG-SFSW-11	11	0-1450	250	SS304	≤ 500	900	650
PVG-SFSW-15	15	0-1450	280	SS304	≤ 700	900	700
PVG-SFSW-18.5	18.5	0-1450	300	SS304	≤ 800	1100	900
PVG-SFSW-22	22	0-1450	350	SS304	≤ 1000	1100	1100
PVG-SFSW-30	30	0-1450	400	SS304	≤ 1500	1100	1400

4) Horizontal Bed Mills

I) All Around Horizontal Mills (Beads Mills 5-50L)

General

All-round horizontal beads Mill is a Nano Grade liquid Grinding machine for closed continuous production. Comparing with traditional grinding equipment, it uses Yttrium stabilized zirconium beads with higher specific gravity and higher hardness as grinding medium and it shows higher grinding efficiency (2 to 3 times higher), better fineness (nano grade), wider application (available for middle and high viscous materials) and better wear resistance. Burgmann Dual-end Mechanical Seal, with self-lubrication system, more reliable and durable., the machine is also with temperature, pressure monitor and protection to ensure the quality of the finished product.

[Materials Viscosity] : ≤ 50000 cps

[Production Capacity] : 50-800+

L

[Application Industry] : Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food, ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click "Free Consultation")

[Application Materials] : Good for materials with viscosity less than 50,000cps, and all kinds of slurries with viscosity less than 100,000cps, and solid content less than 80%, such as emulsion paint, industrial paint water-based ink pesticide, adhesive and etc.

Product advantages

Novel structure, high stability

Strengthened frame with reasonable structure, steady operation and easy maintenance, Besides, nicer appearance with full of modern sense. The main parts and out-sourced parts are internationally renowned brands with higher stability and longer service life.

Easy to clean, Strong durability

Unique tri-ole mechanism design makes it easy to open for cleaning and replacing grinding chambers. The grinding chamber, made of high wear-resistance alloy steel, is treated specially to realize higher wear resistance and longer service life, In addition, Burgmann Dual-end Mechanical Seal with self-lubrication system contributes directly to higher reliability and

durability. Water pressure, air pressure and other real-time monitoring and protection system ensure proper operation for the machine.

Full specification, can be customized

Specifications range from 5L to 50L which can be customized to be Exproof type. Grinding chambers made of Polyurethane or Zirconium are in option to ensure its anti-abrasiveness and also to prevent materials from metal pollution.

Technical parameter

Model	Power supply	Motor Power (kw)	Speed	Grinding Chamber (L)	Grinding Chamber Material	Capacity (L)	Medium Dia. (mm)	Zirconium Beads	Weight (kg)
PVG-SWZX-5	380V 50HZ	7.5	1440rpm	5	SS304/ Alloy Steel	50-150	0.5-1.8	95 Yttrium stabilized zirconium beads	550
PVG-SWZX-15	380V 50HZ	15	1440rpm	15	SS304/ Alloy Steel	100-250	0.5-1.8	95 Yttrium stabilized zirconium beads	1200
PVG-SWZX-30	380V 50HZ	30	1440rpm	30	SS304/ Alloy Steel	150-500	0.5-1.8	95 Yttrium stabilized zirconium beads	1800
PVG-SWZX-50	380V 50HZ	55	1440rpm	50	SS304/ Alloy Steel	200-1000	0.5-1.8	95 Yttrium stabilized zirconium beads	2500

II) All Around Horizontal Mills (Beads Mills 60-200l)

General

All-round horizontal beads Mill is a Nano Grade liquid Grinding machine for closed continuous production. Comparing with traditional grinding equipment, it uses Yttrium stabilized zirconium beads with higher specific gravity and higher hardness as grinding medium and it shows higher grinding efficiency (2 to 3 times higher), better fineness (nano grade), wider application (available for middle and high viscous materials) and better wear resistance. Bergmann Dual-end Mechanical Seal, with self-lubrication system, more reliable and durable., the machine is also with temperature, pressure monitor and protection to ensure the quality of the finished product.

[Materials Viscosity] : ≤ 50000 cps

[Production Capacity] : 200-3000L

[Application Industry] : Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food, ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click "Free Consultation")

[Application Materials] : Good for materials with viscosity less than 50,000cps, and comparatively high requirements of final fineness, such as automobile paint, color paste, water-based ink, fertilizer suspension, lithium battery slurry etc.

Product advantages

Novel structure, high stability

Strengthened frame with reasonable structure, steady operation and easy maintenance, besides, nicer appearance with full of modern sense. The main parts and to-source parts are internationally renowned brands with higher stability and longer service life.

Easy to clean, Strong durability

Unique tri-ole mechanism design makes it easy to open for cleaning and replacing grinding chambers. The grinding chamber, made of high wear-resistance alloy steel, is treated specially to realize higher wear resistance and longer service life, In addition, Bergmann Dual-end Mechanical Seal with self-lubrication system contributes directly to higher reliability and durability. Real-time pressure, air pressure and other real-time monitoring and protection system ensure proper operation of the machine.

Safe monitor, stable product

The machine is with triple cooling internal, external, and end face, which ensures the grinding heads exchanged out in time. The water temperature, material temperature, material pressure water pressure, air pressure and other trial-time monitoring and protection system ensure proper operation of the machine.

Full specification, can be customized

Specifications ranges from 5L to 50L which can be customized to be Reproof type grinding chambers made of Polyurethane or Zirconium are in option to ensure its anti-abrasiveness and also to prevent materials from metal pollution.

Technical parameter

Model	Voltage	Power (kw)	Speed	Chamber volume	Materials of grading chamber	Capacity (L)	Medium Size (mm)	Zirconium Beads	Weight (kg)
PVG-SWZX-60	440V 50HZ	7.5	900rpm	5	SS304/ Alloy	200-1200	0.5-1.8	95 Yttrium stabilized zirconium beads	2500
PVG-SWZX-100	440V 50HZ	90	900rpm	15	SS304/ Alloy	300-3000	0.5-1.8	95 Yttrium stabilized zirconium beads	3600
PVG-SWZX-150	440V 50HZ	132	860rpm	30	SS304/ Alloy	500-5000	0.5-1.8	95 Yttrium stabilized zirconium beads	4800
PVG-SWZX-200	440V 50HZ	160	650rpm	50	SS304/ Alloy	800-8000	0.5-1.8	95 Yttrium stabilized zirconium beads	5500

III) Horizontal Mills (Disc Type)

General

Disc type horizontal beads mill is a liquid grinding machine for closed continuous production. The machine is easy to do operation, good reliability and full specification. It is almost widely used liquid grinding machine in the market with mature performance and structure. The machine uses dual-end mechanical seal with closed self-lubrication system with good reliability and durability. The machine is also with, temperature, pressure monitor and protection to ensure the quality of the finished product. It is with the advantages such as high grinding efficiency, good grinding fineness, wide application and good anti-abrasiveness etc.

[Materials Viscosity] : ≤ 20000 cps

[Production Capacity] : 200-200L

[Application Industry]: Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food, ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click "Free Consultation")

[Application Materials] : Good for materials with viscosity less than 20,000cps, and comparatively high requirements of final fineness, such as automobile paint, color paste, water-based ink, fertilizer suspension, lithium battery slurry etc.

Product advantages

Low energy consumption ratio, High cost-effective

With large and small belts to convey driving force from the motor to the main shaft, it is easy to start. The grinding discs are specially designed to have higher efficiency and lower electric consumption. It is a machine with a higher performance-cost ratio among the grinding machines.

Easy to clean and operate

The machine is with integrated on-spot control panels, easy to do operation. Following structures to make it is easy to clean the grinding chamber and the beads to produce material with different color and varieties. With beads collection hopper, the pulley gear device to make it easy for assemble and disassemble the grinding chamber and frame.

Safe monitor, stable finished product

Grinding chamber is with cooling jackets. Input cooling water into the jacket when running to have good cooling result, normally the temperature increase will be within 10 degree C. The

machine is with temperature and monitor control. With settle protection value to ensure the quality of the finished products.

Full specification, can be customized

Specifications ranges from 5L to 100L which can be customized to be Reproof type grinding chambers made of Polyurethane or Zirconium are in option to ensure its anti-abrasiveness and also to prevent materials from metal pollution.

Technical Parameter

Model	Power supply	Power (kw)	Speed	Volume (L)	Materials	Capacity (L)	Medium Size (mm)	Zirconia	Weight (kg)
PVG-SWS-5	440V 50HZ	5.5	1440	5	SS304/ Alloy	120-480	0.6-1.8	65 CZS/80 YSZ	550
PVG-SWS-15	440V 50HZ	11	1440	15	SS304/ Alloy	120-600	0.6-1.8	65 CZS/80 YSZ	800
PVG-SWS-20	440V 50HZ	15	1440	20	SS304/ Alloy	120-720	0.6-1.8	65 CZS/80 YSZ	900
PVG-SWS-30	440V 50HZ	22	1440	30	SS304/ Alloy	120-720	0.6-1.8	65 CZS/80 YSZ	1100
PVG-SWS-50	440V 50HZ	30	960	50	SS304/ Alloy	160-1000	0.6-1.8	65 CZS/80 YSZ	1500
PVG-SWS-60	440V 50HZ	37	960	60	SS304/ Alloy	200-1000	0.6-1.8	65 CZS/80 YSZ	1600
PVG-SWS-100	440V 50HZ	75	960	100	SS304/ Alloy	300-1500	0.6-1.8	65 CZS/80 YSZ	1600

IV) Lab Horizontal Mills (A)

General

Lab Horizontal Brads Mill-A is a Nano Grade liquid grinding machine with high performance for labs of collages, research institutes and factories. It is application for liquid materials with low and mid viscosity. The machine is equipped with a dosing pump with adjustable flowrate based on different materials to obtain the optimized result. The whole machine is controlled with PLC to realize real time monitor and protection for materials temperature, materials pressure and current etc. And it is also can check the malfunction history to make it easy for repair and maintenance. Adopt tiny zirconium beads as the grinding medium and the machine is characterized in high grinding efficiency, good grinding result, wide application and strong anti-abrasiveness. It is one of the most widely used lab grinding machine in the market.

[Materials Viscosity] : ≤ 5000 cps

[Production Capacity] : 0.3-2L

[Application Industry]: Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food , ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click “Free Consultation”)

[Application Materials] : Good for materials with viscosity less than 5,000cps, and comparatively high requirements of final fineness, such as automobile paint, color paste, water-based ink, fertilizer suspension, lithium battery slurry etc.

Product advantages

High efficiency, good final fineness

The rotation zirconium rods with strong force drives the grinding medium grinding chamber to carry out irregular movements in all direction to put the materials under the action of constant collision and friction. YSZ Zirconium Beads with dia. 0.2-10mm are optional. Normally the materials can be ground down to 1 micron and some can even down to Nano-grade.

Easy operation and intelligent control

The equipment is with Inverter so it can control the start and speed regulation for the machine directly.

The materials shall be charged to the hopper manually. Because for the machine is with self-circulation function, so it can finish grinding process itself after you start the materials the finished products shall be discharged from the outlet of the grinding chamber bottom.

Low temperature increase, stable finished products

The tank and grinding chamber is with cooling jacket, Input cooling water into the jacket when running to have good cooling result, normally the temperature increase will be within 10 degree C.

Long life-times without metal pollution

The entire grinding chamber is made of zirconia which reduces the consumption of the component, extend the service life and reduce pollution to the material. It can be used in products which are sensitive to metal ions.

Technical Parameter

Model	Power supply	Power(kw)	Speed	Volume (L)	Materials	Capacity (L)	Medium Size (mm)	Zirconia Weight (kg)	Weight (kg)
PVG-SWZX-0.5-A	240V 50HZ	1.5	0-2880	0.4	Zirconia	0.3-1L with 1L vessel	0.4-1.2	1.3	80

V) Mid Batch Horizontal Bead Mill

General

Mid-batch horizontal beads mill is a Nano Grade liquid grinding machine for labs of colleges and research institutes. Metering pump can be used to adjust the flow to get the best grinding results. The device is controlled by PLC, all the materials temperature, materials pressure and electric current can be supervised and protected. Faults can be checked, therefore, it is easy to be maintained. Grinding medium, tiny pre zirconia beads, are with high efficiency, good grinding fineness, widely used and strong anti-wear. Midbatch horizontal bead mill is most popular products for small batch materials.

[Materials Viscosity] : ≤ 20000 cps

[Production Capacity] : 2-20L

[Application Industry]: Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food, ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click "Free Consultation")

[Application Materials] : Good for materials with viscosity less than 5,000cps, and comparatively high requirements of final fineness, such as automobile paint, color paste, water-based ink, fertilizer suspension, lithium battery slurry etc.

Product advantages

High efficiency, good final fineness

The rotation zirconium rods with strong force drives the grinding medium grinding chamber to carry out irregular movements in all directions to put the materials under the action of constant collision and friction. YSZ Zirconium Beads with dia. 0.2-10mm are optional. Normally the materials can be ground down to 1 micron and some can even down to Nano-grade.

Easy operation and intelligent control

The equipment is with Inverter so it can control the start and speed regulation for the machine directly.

The materials shall be charged to the potter manually. Because for the machine is with self-circulation function, so it can finish grinding process itself after you start the materials the finished products shall be discharged from the outlet of the grinding chamber bottom.

Low temperature rise, stable products

Batching hopper and grinding cylinder are with cooling jackets. Cold water are injected into them during operation so that temperature rise is normally less than 10 degree C.

Long life-times without metal pollution

The entire grinding chamber is made of zirconia which reduces the consumption of the component, extend the service life and reduce pollution to the material. It can be used in products which are sensitive to metal ions.

Technical Parameter

Model	Power supply	Power (kw)	Speed	Volume (L)	Materials	Capacity (L)	Medium Size (mm)	Zirconia Weight (kg)	Weight (kg)
PVG-SWZX-1.5-C	440V 50HZ	4	0-1440	1.5	Zirconia	2-20L	0.4-1.2	3.5	200

5) MIXERS

I) Customize Mixer

General

Various kinds of agitator combination options for providing mixing device with more optimized, more reliable and lower maintenance cost and running cost. The machine is suitable for mixing solid-solid, liquid-liquid (dissolving, dispersing), solid-liquid, semi-liquid or combination of materials in different state.

[Materials Viscosity] : $\leq 2,000,000$ cps

[Production Capacity] : 50-50,000L

[Application Industry] : Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food, ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click "Free Consultation")

[Application Materials] : Materials under 2,00,000cps viscosity, and solid content under 60% of all kinds of slurry such as emulsion paint, industrial paint, water-based ink, pesticides, adhesives, clay, etc.

Product advantages

High-efficiency dispersion

Reasonable agitator and rotation speed will be commended as per the materials property and different mixing effect requirements. And the materials will carry out axial and radial motion at same time to mix the materials thoroughly and uniformly within a short period.

Various installation ways

We are capable of design and manufacturing hundreds of agitators (Axial flow, Radial Flow and Tangential flow). Following are some widely used agitator. Three-blade propeller, four-blade propeller, three-blade inclined turbine, four-blade inclined turbine six-blade inclined turbine, six-blade inclined disc turbine, s-blade inline disc turbine, six curved blade disc turbine (Frame tie), Six curved blade disc turbine (Anchor type), double helix type, Screw type, helix & Screw type, cone helix type, breaking helix type, three retreat blade agitator etc. And we also provide design and manufacture various kind of combined agitators.

II) Dual Shaft Mixer (Hydraulic Lifting)

General

Dual Shaft mix (Hydraulic Lifting) is a product with dispersing, emulsifying, stirring functions devolved on the basis of Single Shaft hydraulic Lifting mixer. It is divided into co-axial drawl shaft mixer and independent dual shaft mixer according to whether the shafts are designed in co-axial or not. The product has a good adaptability of high viscosity and thyrrotrophic material. A variety of optional mixing ways, conventional such as anchor, butterfly, frame, etc. It has so strong adaptability that emulsion, dispersion and mixing can be simultaneously realized, it can be customized by the different requirement of materials characteristic and production process of the customer.

[Materials Viscosity] : $\leq 1,000,000$ cps

[Production Capacity] : 50-10,000L

[Application Industry] : Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food, ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click “Free Consultation”)

[Application Materials] : Materials shall be with viscosity less than under 1,000,000cps viscosity, and solid contend under 80% such as putty, printing ink, structural, adhesive, anaerobic adhesives, suspension concentrates, etc..

Product Advantage

High efficiency, better quality

Dual shaft mixing is mainly used in stirring and mixing of viscous material, the collocation of the dual-shaft stirring forms (dispersing+ stirring, emulsion+ stirring, mixing)stirring) solves the missing and stirring of the viscous arterials than single shaft mixer failed to mixer, the mixing efficiency is faster than single shaft mixer, and the mixing effect is good.

Safe and higher environmental protection index

Adopt hydraulic cylinder as lifting actuators. Control the mixer up, stop and down through controlling the valve, simple operationwithhigh stability. The connection between the agitator and shaft is through bolts or flange it is veryconvenient for disassemble or replace, easy to clean, Various agitators are optional based on processing requirements to optimize the mixing result, Different clamping type (Belt Clamping, Pneumatic Clamping) are optional for fixing the mixing to print any possible accident due to tank displacement.

Various Installation ways

With compact structure, the machine can be floor type and platform type. Tank working with the mixer can be removable type or fixed type.

Customizes Options

Different options are available such as explosion- proof type, closed type, multi-tanks tie, with lifting core type. Co-axial type/dual-shaft type mounted on kettle type etc. Material can be customized to be SS304/SS321/SS316L.

Technical Parameter

Model	Dispersing Power (kw)	Dispersing Speed (rpm)	Mixing power (kw)	Mixing speed (rpm)	Material	Capacity (L)	Hydraulic Power (kw)	Lift ((mm)
PVG-SJBD-100	5.5	0-2880	2.2	0-85	SS304/ SS316 Stainless Steel	≤ 80	1.1	700
PVG-SJBD-200	7.5	0-1450	4	0-85	SS304/ SS316 Stainless Steel	≤ 160	1.5	800
PVG-SJBD-300	11	0-1450	7.5	0-61	SS304/ SS316 Stainless Steel	≤ 240	1.5	900
PVG-SJBD-500	18.5	0-1450	11	0-61	SS304/ SS316 Stainless Steel	≤ 400	2.2	1000
PVG-SJBD-800	30	0-1450	18.5	0-52	SS304/ SS316 Stainless Steel	≤ 640	4	1100
PVG-SJBD-1000	37	0-1450	22	0-52	SS304/ SS316 Stainless Steel	≤ 800	5.5	1200
PVG-SJBD-1300	45	0-1450	30	0-52	SS304/ SS316 Stainless Steel	≤ 1000	5.5	1300
PVG-SJBD-1500	55	0-1450	37	0-41	SS304/ SS316 Stainless Steel	≤ 1300	5.5	1400
PVG-SJBD-2000	75	0-1450	45	0-41	SS304/ SS316 Stainless Steel	≤ 1600	7.5	1600

III) Hydraulic lifting mixer

General

Hydraulic lifting Mixer generally refers to single shaft mixer. It is used for mid to mass production with functions of stirring and mixing. It can be equipped with frequency converter for various speed control or constant speed operation. It can be used for long-time operation, with stable operation and low noise. The impeller is convenient to disassemble and different forms of impeller can be changed according to processing property. Lifting structure is using hydraulic cylinder actuators, stable lifting, adopt integrated hydraulic tank, environmental and without leakage. It is an ideal machine for mixing solid-liquid, liquid-liquid, ointment-lipid materials.

[Materials Viscosity] : $\leq 5,000,000$ cps

[Production Capacity] : 50-3,000L

[Application Industry] : Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food, ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click "Free Consultation")

[Application Materials] : Materials shall be with viscosity less than under 5,000,000cps viscosity, and solid content under 60% such as putty, printing ink, structural, adhesive, pesticide, clay, etc..

Working Principle

Mixing impeller driven by the power unit rotates in a fixed direction, which makes the materials rotate in axial and radial direction. And the materials inside the tank, at the same time, also do axial and circular motion, So materials can be mixed and blended properly with high efficiency. Hydraulic lifting mixer drives the hydraulic piston up and down by the hydraulic pump to lift the driving mechanism and working head up and down.

Product Advantage

High mixing efficiency, excellent product quality

Our Industry has years of application experience in various industries. Reasonable agitators and rotation speed will be recommended as per the materials characteristics and different mixing effect requirements. And the materials will carry out axial and radial motion at the same times to mix the materials thoroughly and uniformly within a short period.

Safe and higher environmental protection index

Adopt hydraulic cylinder as lifting actuators. Control the mixer up, stop and down through controlling the valve, simple operation with high stability. The connection between the agitator and shaft is through bolts or flange it is very convenient for disassemble or replace, easy to clean, Various agitators are optional based on processing requirements to optimize the mixing result, Different clamping type (Belt Clamping,Pneumati Clamping) are optional for fixing the mixing to print any possible accident due to tank displacement.

Various Installation ways

With compact structure, the machine can be floor type and platform type. Tank working with the mixer can be removable type or fixed type.

Customizes Options

Different options are available such as explosion- proof type, closed type, multi-tanks tie, with lifting core type. Co-axial type/dual-shaft type mounted on kettle type etc. Material can be customized to be SS304/SS321/SS316L.

Technical Parameter

Model	Motor Power (kw)	Speed (rpm)	Mixing Agitator dia. (kw)	Material	Capacity (L)	Lift (mm)	Weight (kg)
PVG-SJBY-1.1	1.1	100	300	SS304/ SS316 Stainless Steel	≤ 200	600	550
PVG-SJBY-1.5	1.5	85	350	SS304/ SS316 Stainless Steel	≤ 300	600	550
PVG-SJBY-2.2	2.2	76	400	SS304/ SS316 Stainless Steel	≤ 500	600	700
PVG-SJBY-3.0	3.0	67	450	SS304/ SS316 Stainless Steel	≤ 800	800	750
PVG-SJBY-4.0	4.0	60	500	SS304/ SS316 Stainless Steel	≤ 1000	1000	850
PVG-SJBY-5.5	5.5	53	600	SS304/ SS316 Stainless Steel	≤ 1500	1200	1100
PVG-SJBY-7.5	7.5	50	650	SS304/ SS316 Stainless Steel	≤ 2200	1400	1300
PVG-SJBY-11	11	45	750	SS304/ SS316 Stainless Steel	≤ 3000	1600	1500

IV) Lab Mixer

General

Lab Mixer is small mixing equipment developed to meet the requirement of institutions and scientific research unit,. With digital rotation speed display (0-1500rpm), various speed control. Stable operation and low noise. Two forms for mixing agitators, easy disassembly, simple lifting structure operation. It is ideal lab equipment for trial.

[Materials Viscosity] : $\leq 1,000,000$ cps

[Production Capacity] : 0.2-5L

[Application Industry] : Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food, ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click "Free Consultation")

[Application Materials] : Materials shall be with viscosity less than under 1,000,000cps viscosity, and solid content under 60% such as putty, printing ink, structural, adhesive, anaerobic adhesives, suspension concentrates, etc..

Product Advantages

The highest rotation speed of the equipment reached to 1500rpm, the materials will carry out axial and radial motion at same time to mix the materials thoroughly and uniformly within a short period.

Safe and convenient operation

The equipment equipped with lock and lifting handle for quick lifting and fixed. The 2 coupling agitators fixed by rapid clamping way, easy disassembly and operation. With beaker and tank clamping device to fix the mixing tank to prevent any possible accident due to tank sidplacement.

Good adaptability

The agitators of dispersing disc and plate with hollow type agitator have different liquid running effect for different material characteristics, wide application and good adaptability.

Product Advantages

High mixing efficiency, excellent product quality

The highest rotation speed of the equipment reached to 1500rpm the materials will carry out axial and radial motion at same time to mix the materials thoroughly and uniformly within a short period.

Safe and convenient operation

The equipment equipped with lock and lifting handle for quick lifting and fixed. The 2 coupling agitators fixed by rapid clamping way, easy disassemble and operation. With beaker and tank clamping device to fix the mixing tank to prevent any possible accident due to tank displacement.

Good adaptability

The agitators of dispersing disc and plate with hollow type agitator have different liquid running effect for different material characteristics, wide application and good adaptability.

Technical Parameter

Model	Voltage	Motor Power (kw)	Speed	Working head	Material	Capacity (L)	Lift (mm)	Weight (kg)
PVG-SJB-S450	240V 50HZ	450	0-1500mm	Ø50 Dispersing Disc 50X50 hollow plate type mixing paddle	Material contacting part is SS 304 Stainless Steel	0.2 – 5L	Manual Lifting	13

V) Mixer (Pneumatic lifting)

General

Pneumatic lifting Mixer has the feature of simple lifting, good mixing effect, beautiful structure, beneficial price, and high performance. It is used for small batch production of factories, scientific research institutions and colleges. The equipment is equipped with inverter various speed control, can be used continuously for a long period of time, stable operation and low noise. Various optional mixing paddles, easy disassemble and change. The lifting structure uses cylinder as actuator, environmental protection and no pollution, it is an ideal equipment for small batch reduction.

[Materials Viscosity] : $\leq 50,000$ cps

[Production Capacity]: 50-1000L

[Application Industry] : Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food, ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click "Free Consultation")

[Application Materials] : Materials shall be with viscosity less than under 50,000cps viscosity, and solid content under 60% such as putty, printing ink, structural, adhesive, anaerobic adhesives, suspension concentrates, etc..

Working Principle

Mixing agitator driven by the power unit rotates in a fixed direction, which makes the materials rotate in axial and radial direction and the materials inside the tank, at the same time, also do axial and circular motion, So materials can be mixed and blended properly with high efficiency. Pneumatic lifting mixer drives cylinder working by point rotation of pneumatic valve and electromagnetic valve to achieve the motor and working head up and down.

Product Advantage

High mixing efficiency, excellent product quality

Our industry has years of application experience in various industries. Reasonable agitator and rotation speed will be recommended as per the materials property and different mixing effect requirements. And the materials will carry out axial and radial motion at the same time to mix the materials thoroughly and uniformly within a short period.

Safe and convenient operation

The equipment is equipped with lock and lifting handle for quick lifting and fixed. Electric control system and equipment of one-piece design. With tank clamping device.

Easy move

Occupied little space, with castor and for brake device, easy to move or fix.

Customizes Options

Different options are available such as explosion- proof type, closed type, multi-tanks tie, with lifting core type. Co-axial type/dual-shaft type mounted on kettle type etc. Material can be customized to be SS321/SS316L. With tank of different specification.

Technical Parameter

Model	Motor Power (kw)	Speed (1)	Mixing paddle Dia (mm) (2)	Material (3)	Capacity (L) (4)	Lift (mm) (5)	Weight (kg) (6)
PVG-SJBQ-1.1	1.1	100	300	Material contacting part is SS304 Stainless Steel	≤ 200	600	250
PVG-SJBQ-1.5	1.5	85	3500	Material contacting part is SS304 Stainless Steel	≤ 300	600	250
PVG-SJBQ-2.2	2.2	76	400	Material contacting part is SS304 Stainless Steel	≤ 500	600	300
PVG-SJBQ-3.0	3.0	67	450	Material contacting part is SS304 Stainless Steel	≤ 800	800	350
PVG-SJBQ-4.0	4.0	60	500	Material contacting part is SS304 Stainless Steel	≤ 1000	800	450

VI) Mixer mounted on kettle

General

Mixer mounted on kettle is functioning in stirring and mixing of liquid-liquid and liquid-powered for the mass production product, and it can be supplemented by dispersing, emulsifying, heating and cooling functions to meet the needs of different production process. The machine can be used continuously for long period, stable operation and low noise, easy operating, strong adaptation, it is ideal equipment for multi-function as mixing and dispersing.

[Materials Viscosity] : $\leq 1,000,000$ cps

[Production Capacity] : 50-500,000L

[Application Industry] : Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food, ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click "Free Consultation")

[Application Materials] : Materials shall be with viscosity less than under 1,000,000cps viscosity, and solid content under 60% such as emulsion point, industrial paint, water-based ink, structural, adhesive, anaerobic adhesives..

Product Advantage

High mixing efficiency, good product quality

Reasonable agitator and rotation speed will be recommended as per the materials property and different mixing effect requirements. And the materials will carry out axial and radial motion at same time to mix the materials thoroughly and uniformly within a short period.

Configuration of high speed dispersing and emulsifying, meeting more demands, improving mixing performance

According to the requirement, the kettle can be equipped with 1 or 2 high speed disperser or emulsifier. The highest rotation speed of the disperser emulsifying equipment reached to 2930rpm (regular 1450rpm), the linear velocity is up to 20m/s, which quickly spread the material evenly to the liquid. Under the extremely high shear force, the materials uniform dispersion, thus forming a good suspension effect.

Convenient maintenance and clean

Using hexagon socket screw to fix with main shaft, the dispersing disc is convenient to disassemble and change rapidly, and easy clean, use screw to fix the agitator and main shaft, easy move and disassemble.

Various Installation ways

With compact structure, the machine can be floor type and platform type. Tank working with the mixer can be removable type or fixed type.

Customizes Options

Different options are available such as explosion- proof type, closed type, multi-tanks tie, with lifting core type. Co-axial type/dual-shaft type mounted on kettle type etc. Material can be customized to be SS304/SS321/SS316L.

Technical Parameter

Model	Motor Power (kw)	Speed (1)	Mixing Form (2)	Material (3)	Capacity (L) (4)	Weight (kg) (5)
PVG-SJBF-1.1	1.1	100	Anchor, paddle, frame an other types of agitator, different viscosity applicataion, differece of sped and power	SS304/SS316	≤ 200	250
PVG-SJBF-1.5	1.5	85		SS304/SS316	≤300	250
PVG-SJBF-2.2	2.2	76		SS304/SS316	≤500	300
PVG-SJBF-3.0	3.0	67		SS304/SS316	≤800	450
PVG-SJBF-4.0	4.0	63		SS304/SS316	≤1000	350
PVG-SJBF-5.5	5.5	59		SS304/SS316	≤1500	450
PVG-SJBF-7.5	7.5	53		SS304/SS316	≤2500	350
PVG-SJBF-11	11	53		SS304/SS316	≤3000	450
PVG-SJB22F-15	15	53		SS304/SS316	≤4000	350
PVG-SJB22F-18.5	18.5	53		SS304/SS316	≤4000	450
PVG-SJBF-22	22	43		SS304/SS316	≤5000	
PVG-SJBF-30	30	43		SS304/SS316	≤8000	350
PVG-SJBF-37	37	Customized	Customized	SS304/SS316	≤10000	Customized

VII) Multi-functional Tri-shaft Mixer(hydrolic lifting)

General

Multi-functional Tri-shaft mixer (Hydraulic Lifting) is a product with dispersing, emulsifying, stirring functions developed on the basis of Dual shaft Hydraulic Lifting mixer. The product has a good adaptability of high viscosity and thixotropic material. A So strong adaptability emulsion, dispersion and mixing can be simultaneously realized, and can be customized by the different requirement of materials characteristic and production process of the customer.

[Materials Viscosity] : $\leq 1,500,000$ cps

[Production Capacity] : 50-2000L

[Application Industry] : Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food, ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click "Free Consultation")

[Application Materials] : Materials shall be with viscosity less than under 1,500,000cps viscosity, and solid content under 80% such as putty, printing ink, structural, adhesive, anaerobic adhesives, suspension concentrates, etc.

Product Advantage

High mixing efficiency, excellent product quality

Multi-functional Tri-shaft mixer is mainly used in stirring and mixing of viscous material the collocation of the tri-shaft stirring forms (dispersing+emulsifying+Stirring, dispersing+dispersing+ stirring, stirring+stirring) to mix or stir the viscous materials single shaft mixer fails to mix. Its mixing efficiency is faster than dual shaft mixer, and the mixing effect is better.

Safe and convenient operation

Adopt hydraulic cylinder as lifting actuators. Control the mixer up, stop and down through controlling the valve, simple operation with high stability. The connection between the agitator and shaft is through bolts or flange it is very convenient for disassemble or replace, easy to clean, Various agitators are optional based on processing requirements to optimize the mixing result, Different clamping type (Belt Clamping, Pneumatic Clamping) are optional for fixing the mixing to prevent any possible accident due to tank displacement.

Various Installation ways

With compact structure, the machine can be floor type and platform type. Tank working with the mixer can be removable type or fixed type.

Customizes Options

Different options are available such as explosion- proof type, closed type, multi-tanks tie, with lifting core type. Co-axial type/dual-shaft type mounted on kettle type etc. Material can be customized to be SS304/SS321/SS316L.

Technical Parameter

Model	Dispersing Power (kw)	Dispersing Speed (rpm)	Mixing power (kw)	Mixing speed (rpm)	Mixing power (kw)	Mixing speed (rpm)	Material	Capacity (L)	Hydraulic Power (kw)	Lift (mm)
PVG-SJBD-100	3	0-2880	2.2	0-85	2.2	0-350	SS304/ SS316 Stainless Steel	≤ 80	1.1	700
PVG-SJBD-200	7.5	0-1450	4	0-85	4	0-350	SS304/ SS316 Stainless Steel	≤ 160	1.5	800
PVG-SJBD-300	11	0-1450	7.5	0-61	7.5	0-250	SS304/ SS316 Stainless Steel	≤ 240	1.5	900
PVG-SJBD-500	18.5	0-1450	11	0-61	11	0-250	SS304/ SS316 Stainless Steel	≤ 400	2.2	1000
PVG-SJBD-800	30	0-1450	18.5	0-52	18.5	0-250	SS304/ SS316 Stainless Steel	≤ 640	4	1100
PVG-SJBD-1000	37	0-1450	22	0-52	22	0-200	SS304/ SS316 Stainless Steel	≤ 800	5.5	1200
PVG-SJBD-1300	45	0-1450	30	0-52	30	0-200	SS304/ SS316 Stainless Steel	≤ 1000	5.5	1300
PVG-SJBD-1500	55	0-1450	37	0-41	37	0-160	SS304/ SS316 Stainless Steel	≤ 1300	5.5	1400
PVG-SJBD-2000	75	0-1450	45	0-41	45	0-160	SS304/ SS316 Stainless Steel	≤ 1600	7.5	1600

VIII) Vacum Multi - Functional Mixer

General

Vacuum Multi-functional Mixer is a functional product developed on the basis of standard multi-functional mixer. The machine has equipped with matched closed vacuum cover, flange slotting and elastic sealing ring to the tank, to ensure no leakage under the closed vacuum condition. The equipment can equip with imported pump or pump group (Leybold, Busch), and the highest vacuum degree can reach to -0.098mpa (20mbar) ; it is suitable for dispersing and mixing under special conditions such as vacuum defoaming, vacuum feed, gas protection, etc..

[Materials Viscosity] : $\leq 1,500,000$ cps

[Production Capacity] : 50-10000L

[Application Industry] : Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food, ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click "Free Consultation")

[Application Materials] : Materials shall be with viscosity less than under 1,500,000cps viscosity, and solid content under 80% such as putty, UV printing ink, structural, adhesive, anaerobic adhesives, etc.

Product Advantage

High mixing efficiency, excellent product quality

Vacuum Multi-functional mixer is mainly used in stirring and mixing of viscous/sticky material, the combination of the tri-shaft stirring forms (dispersing + emulsifying + Stirring, dispersing+ dispersing+ stirring, stirring + stirring) to solve the mixing and stirring that the viscous material single shaft mixer failed to mix; mixing efficiency far better than dual shaft mixer, and the mixing effect is better.

Environmental protection index outstanding and safe operation

As this equipment equipped with closed cover, it can achieve completely closed with vessel, achieve high vacuum degree effectively avoid solvent evaporation; the cover with endoscopic and searchlights can real-time observation mixing state ; take sanitary material and can be used for cleaning and feeding.

Various Installation ways

With compact structure, the machine can be floor type and platform type. Tank working with the mixer can be removable type or fixed type.

Customizes Options

Different options are available such as explosion- proof type, lifting type. Multi-tanks type, mounted on kettle type, etc.. Material can be customized to be SS304/SS321/SS316L.

Wide application range

With compact structure, the machine can be floor type and platform type. Tank working with the mixer can be removable type or fixed type.

Customizes Options

Different options are available such as explosion- proof type, lifting type. Multi-tanks type, mounted on kettle type, etc.. material can be customized to be SS304/SS321/SS316L.

Technical Parameter

Model	Dispersin g Power (kw)	Dispersin g Speed (rpm)	Mixing power (kw)	Mixing speed (rpm)	Mixing power (kw)	Mixing speed (rpm)	Material	Capacity (L)	Hydrau lic Power (kw)	Lift (mm)
PVG-SJBZ-100	3	0-2880	2.2	0-85	2.2	0-350	SS304/ SS316 Stainless Steel	≤ 40	1.5	700
PVG-SJBZ-200	7.5	0-1450	4	0-85	4	0-350	SS304/ SS316 Stainless Steel	≤ 160	2.2	800
PVG-SJBZ-300	11	0-1450	7.5	0-61	7.5	0-250	SS304/ SS316 Stainless Steel	≤ 240	3	900
PVG-SJBZ-500	18.5	0-1450	11	0-61	11	0-250	SS304/ SS316 Stainless Steel	≤ 400	4	1000
PVG-SJBZ-800	30	0-1450	18.5	0-52	18.5	0-250	SS304/ SS316 Stainless Steel	≤ 640	5.5	1100
PVG-SJBZ-1000	37	0-1450	22	0-52	22	0-200	SS304/ SS316 Stainless Steel	≤ 800	5.5	1200
PVG-SJBZ-1300	45	0-1450	30	0-52	30	0-200	SS304/ SS316 Stainless Steel	≤ 1000	7.5	1300
PVG-SJBZ-1500	55	0-1450	37	0-41	37	0-160	SS304/ SS316 Stainless Steel	≤ 1300	11	1400
PVG-SJBZ-2000	75	0-1450	45	0-41	45	0-160	SS304/ SS316 Stainless Steel	≤ 1600	11	1600

6) Tri-roll mill

1) Hydraulic tri roll mill

General

Tri-roller mill is suitable for grinding and dispersing ointment or high viscosity slurry with comparatively high requirement of fineness. It achieves required grinding effect by the friction and crashing among the three tilt rollers rotating at different speeds. It is equipped with emergency brake button to prevent equipment damage caused by foreign matter roped into. The roller is citing of special had alloy (and ceramic materials are options. The hydraulic system controls and regulates the clearance between the rollers to achieve the desired final fineness and production output, stable and high efficient.

[Materials Viscosity]: $\leq 3,000,000$ cps

[Production Capacity]: 100,1000L

[Application Industry] : Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food, ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click “Free Consultation”)

[Application Materials]: Materials shall be with viscosity less than 3,00,000cps with comparatively high requirements of final grinding result such as offset ink, chocolate, lithium slurry, electronic glue, silver aluminum paste adhesives, clay, etc.

Product advantages

Wide application range

The roller can be design as per material viscosity to be suitable for materials with high viscosity, low viscosity respectively.

Little rise in temperature, stable quality of the finished product.

Excellent cooling result can achieve by inputting cooling water into the rolled when the matching is running. Normally the temperature increase will be less than 10 degree c. And the quality of the finished products is ensured.

Customized options

The machine can be Reproof type

Tilter station is optional for discharging the material automatically.

Technical Parameter

Model	Speed supply	Motor Power (kw)	Roller dia. (mm)	Roller Length (mm)	Roller Material/Hardness	Slow speed (rpm)	Mid Speed (rpm)	Fast Speed (rpm)	Size (mm)	Weight (kg)
PVG-SYGM - 150	440V 50HZ	3	150	300	Super Alloy/HSD70-73	26	61	141	950x950x1080	520
PVG-SYGM - 260	440V 50HZ	22	260	6650	Super Alloy/HSD70-73	58	1153	408	1560x1280x1200	2300
PVG-SYGM - 400	440V 50HZ	55	400	1000	Super Alloy/HSD70-73	32	148	400	2334x1750x2950	5200
PVG-SYGM - 400	440V 50HZ	55	400	1300	Super Alloy/HSD70-73	32	148	400	2634x1750x2295	5800

II) Traditional Tri Roll Mill

General

Tri-roller mill is suitable for grinding and dispersing ointment or high viscosity slurry with comparatively high requirement of fineness. It achieves required grinding effect by the friction and crashing among the three tilt rollers rotating at different speeds. It is equipped with emergency brake button to prevent equipment damage caused by foreign matter roped into. The roller is citing of special had alloy and ceramic materials are options.

[Materials Viscosity]: $\leq 3,000,000$ cps

[Production Capacity]: 0.5-6000kg/h

[Application Industry] : Suitable for dispersing, emulsifying and homogenizing material in industries such as biology, pharmacy, food, ink, textile auxiliary, cosmetic lubrication oil and fertilizer etc.. (For more application industry, Please click “Free Consultation”)

[Application Materials]: Materials shall be with viscosity less than 3,00,000cps with comparatively high requirements of final grinding result such as offset ink, chocolate, lithium slurry, electronic glue, silver aluminum paste adhesives, clay, etc.

Product advantages

Wide application range

The roller can be design as per material viscosity to be suitable for materials with high viscosity, low viscosity respectively.

Little rise in temperature, stable quality of the finished product

Excellent cooling result can achieve by inputting cooling water into the rolled when the machine is running. Normally the temperature increase will be less than 10 degree c. And the quality of the finished products is ensured.

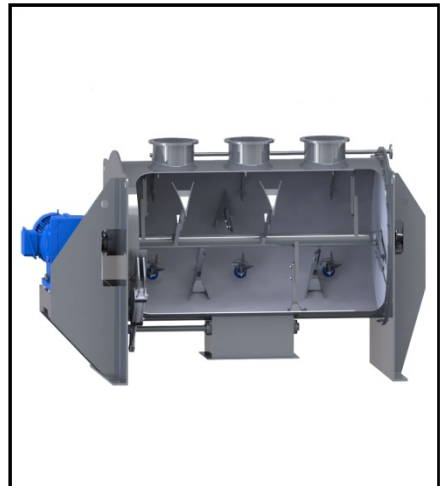
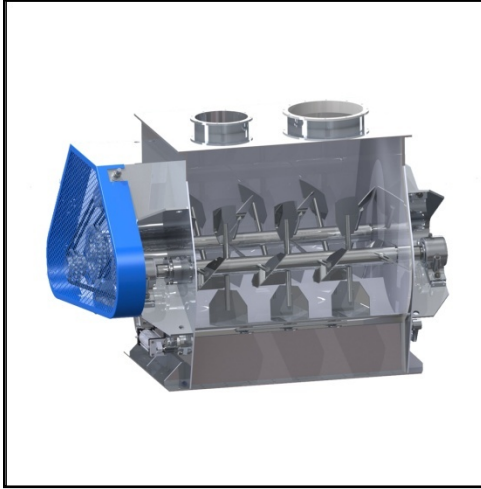
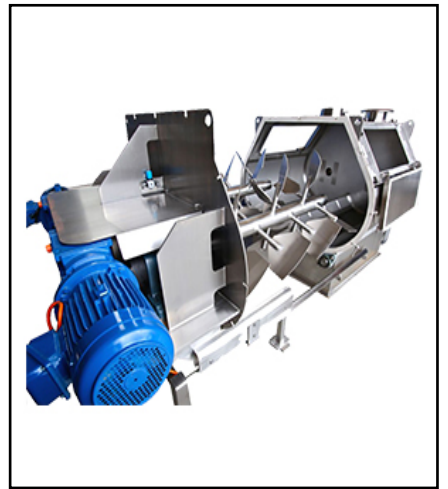
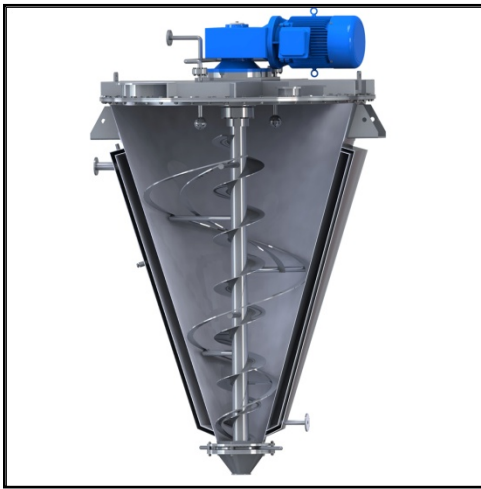
Customized options

The machine can be Reproof type

Tilter station is optional for discharging the material automatically.

Technical Parameter

Model	Speed supply	Motor Power (kw)	Roller dia. (mm)	Roller Length (mm)	Roller Material/ Hardness	Slow speed (rpm)	Mid Speed (rpm)	Fast Speed (rpm)	Size (mm)	Weight (kg)
PVG-SYGM -65	240V 50HZ	0.75	65	136	Cr12 Quenching/ HSD55-60	26	70	145	410x400x450	60
PVG-SYGM -150	440V 50HZ	2.2	150	300	Chilled alloy / HSD68-72	34	78	181	830x830x1910	500
PVG-SYGM -260	440V 50HZ	7.5	260	675	Chilled alloy / HSD68-72	23	64	183	1680x1320x1150	21100
PVG-SYGM -405	440V 50HZ	15	405	810	Chilled alloy / HSD68-72	14	42	130	1950x1900x1450	5200
PVG-SYGM -405 10)	440V 50HZ	22	405	1000	Chilled alloy / HSD68-72	14	42	130	2150x1900x1450	5800





Looking forward to the future, our company will take "build the international first-class enterprise, and create world famous brand " as its objective, forge ahead and continuously innovate, and provide perfect solution for global food processing

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