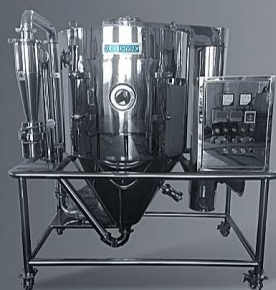




Changzhou KODI Machinery Co., Ltd.

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LPG-5 Spray Dryer (Horizontal)



LPG-5 Spray Dryer (Vertical)



LPG-5 Plus Spray Dryer



LPG-10 Spray Dryer



304 / 316L
Stainless
Steel



PID
3D PID
Control



SIEMENS
Touch
Screen



AUTO
Full-
Automatic
Control



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Description

LPG-5 Spray dryer is special for lab research and it is a wide used to laboratory production of micro-particle powder by universities, research center and food, biotechnology, beverage, chemical, material, and pharmaceutical enterprise lab.

Technical Data

Evaporation	3~5 Kg/h	Dia/Height	1.0M/2.2M
Operation temperature	Inlet 180 °C Outlet 90 °C	Atomizer	Pneumatic / Electric
Power	Drive: 2.2KW Heater: 15KW	Dia 50mm	Max 30000r.p.m
Type	Open circle	Water consumption	0.1m3/h
Air contact	Co - current	Feeder	Peristaltic pump
Collection	Cyclone	Heater	Electric heater
Control	Inlet air adjustable by inverter	Atomizer	Centrifugal atomizer
Overall size	1.68×1.5×2.1	Weight	About 500Kg
Packing	Poly-wood box	Power	3Ph, 220- 460V, 50/60Hz

KODI Lab Spray Dryer



Powder



Atomizer



Quick Open Clamp



Collection Jar

Features

- 1.SIEMENS touch screen automatic control
- 2.Moveable easy to clean
- 3.Small space occupation
- 4.Easy to control and run stably
- 5.Stainless steel 304 or 316L

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**Parameters**

No.	Item	Model	Qty.	Material	Notes
Feeding system					
1	Peristaltic pump	BT-100	1set	Sanitary	
2	Feeding pipe		1set	Sanitary	
Circulation system					
1	Suction blower		1set	Aluminum	2.2Kw
2	Air valve		1set	SUS304	
3	Hot air pipe		1set	SUS304	
4	Air out pipe		1set	SUS304	
5	Pipe fittings		1set	SUS304	
Air system					
1	Air filter		1set	SUS304	Initial and middle
2	Air heater	15Kw	1set	SUS304	
3	Pipe fitting		1set	SUS304	
4	Hot air pipe		1set	SUS304	Insulation
Main machine					
1	Drying chamber	D1000 H2200	1set	SUS304	
2	Air distributor		1set	SUS304	
3	Atomizer	LPG5/Dia 50mm	1set	SUS304	
4	Light		1set		
5	Manhole		1set	SUS304	
6	Insulation			Glass fiber	
7	Hammer		2sets	Aluminum	
8	Ladder		1set	SUS304	
Powder collection system					
1	Cyclone		1set	SUS304	
2	Discharge valve		1set	SUS304	
3	Product jar		1set	SUS304	
4	Air pipe	Quick opening	1set	SUS304	
Control system					
1	Control box		1set	SUS304	
2	PLC	SIEMENS	1set		
3	Touch screen	SIEMENS	1set		
4	Contactor	SCHNEIDER	1set		



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Description

LPG-5 plus type is an upgraded version of the common type lab spray dryer. It has bigger drying chamber, two fans, two cyclone separators etc., so it has higher drying capacity & efficiency. This type laboratory spray dryer is more and more popular with customers by universities, research center in developed countries & regions.

Technical Data

Evaporation	5~7Kg/h	Dia/Height	1.2M/2.8M
Operation temperature	Inlet 180 °C Outlet 90 °C	Atomizer	Electric
Power	Drive: 1.65KW Heater: 21KW	Dia 50mm	Max 30000r.p.m
Type	Open circle	Water consumption	0.1m3/h
Air contact	Co-current	Feeder	Peristaltic pump
Collection	Two cyclone separators	Heater	Electric heater
Control	Inlet air adjustable by inverter	Atomizer	Centrifugal atomizer
Overall size	3.0mx1.9mx2.5m	Weight	About 850Kg
Packing	Poly-wood box	Power	3Ph, 220-440V, 50/60Hz

LPG-5 Plus Spray Dryer



Atomizer



Fan



HMI

Features

- 1.SIEMENS touch screen automatic control
- 2.Easy to clean
- 3.Small space occupation
- 4.Easy to control and run stably
- 5.Stainless steel 304 or 316L

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**Parameters**

No.	Item	Model	Qty.	Material	Notes
Feeding system					
1	Peristaltic pump	BT-100	1set	Sanitary	
2	Feeding hose		1set	Sanitary	
Circulation system					
1	Blower		1set	SUS304	0.55Kw
2	Suction fan		1set	SUS304	1.1Kw
3	Hot air pipe		1set	SUS304	
4	Air out pipe		1set	SUS304	
5	Pipe fittings		1set	SUS304	
Air system					
1	Air filter		1set	SUS304	Initial and middle
2	Air heater	21Kw	1set	SUS304	
Main machine					
1	Drying chamber	D1200	1set	SUS304	
2	Air distributor		1set	SUS304	
3	Atomizer	XH-5	1set	SUS304	
4	Light		1set		
5	Manhole		1set	SUS304	
6	Insulation			Glass fiber	
7	Hammer		2sets	Aluminium	
8	Ladder		1set	SUS304	
Powder collection system					
1	Cyclone		1set	SUS304	
2	Butterfly valve		1set	SUS304	
3	Product jar		1set	SUS304	
4	Cyclone		1set	SUS304	
5	Butterfly valve		1set	SUS304	
6	Product jar		1set	SUS304	
Control system					
1	Control box		1set		
2	PLC	SIEMENS	1set		
3	HMI	SIEMENS	1set		
4	Inverter	SIEMENS	2sets		



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Description

LPG-10 model is an upgraded version of the common type lab spray dryer. It has bigger drying chamber, two fans, two cyclone separators etc., so it has higher drying capacity & efficiency. This type laboratory spray dryer is more and more popular with customers by universities, research center in developed countries & regions.

Technical Data

Evaporation	~10 Kg/h	Dia/Height	1.6M/3.4M
Operation temperature	Inlet 180 °C Outlet 90 °C	Atomizer	Electric
Power	Drive: 6 KW Heater: 27KW	Water consumption	0.1m3/h
Type	Open circle	Feeder	Peristaltic pump
Air contact	Co-current	Heater	Electric heater
Collection	Two cyclone separators	Atomizer	Centrifugal atomizer
Control	Inlet air adjustable by inverter		
Overall size	2.6mx2.6mx3.45m	Weight	About 1000Kg
Packing	Container	Power	3Ph, 220-440V, 50/60Hz

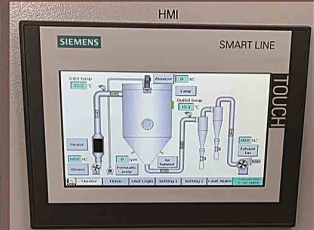
LPG-10 Spray Dryer



Manhole



Touch Screen



HEPA Filter



Centrifugal Atomizer



Features

- 1.SIEMENS touch screen automatic control
- 2.Easy to clean
- 3.Small space occupation
- 4.Easy to control and run stably
- 5.Stainless steel 304 or 316L

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**Parameters**

No.	Item	Model	Qty.	Material	Notes
Feeding system					
1	Peristaltic pump	BT-300	1set	Sanitary	
2	Feeding pipe		1set	Sanitary	
Circulation system					
1	Blower		1set	SUS304	1.1Kw
2	Suction fan		1set	SUS304	2.2kw
3	Hot air pipe		1set	SUS304	
4	Air out pipe		1set	SUS304	
5	Pipe fittings		1set	SUS304	
Air system					
1	Air filter		1set	SUS304	Initial and middle
2	Air heater	27Kw	1set	SUS304	
Main machine					
1	Drying chamber	D1600	1set	SUS304	
2	Air distributor		1set	SUS304	
3	Atomizer	XH-10	1set	SUS304	
4	Light		1set		
5	Manhole		1set	SUS304	
6	Insulation			Glass fiber	
7	Hammer		2sets	Aluminium	
8	Ladder / Platform		1set	SUS304	
Powder collection system					
1	Cyclone		1set	SUS304	
2	Butterfly valve		1set	SUS304	
3	Product jar		1set	SUS304	
4	Cyclone		1set	SUS304	
5	Butterfly valve		1set	SUS304	
6	Product jar		1set	SUS304	
Control system					
1	Control box		1set	Carbon steel	
2	PLC	SIEMENS	1set		
3	HMI	SIEMENS	1set		
4	Inverter	SIEMENS	2sets		

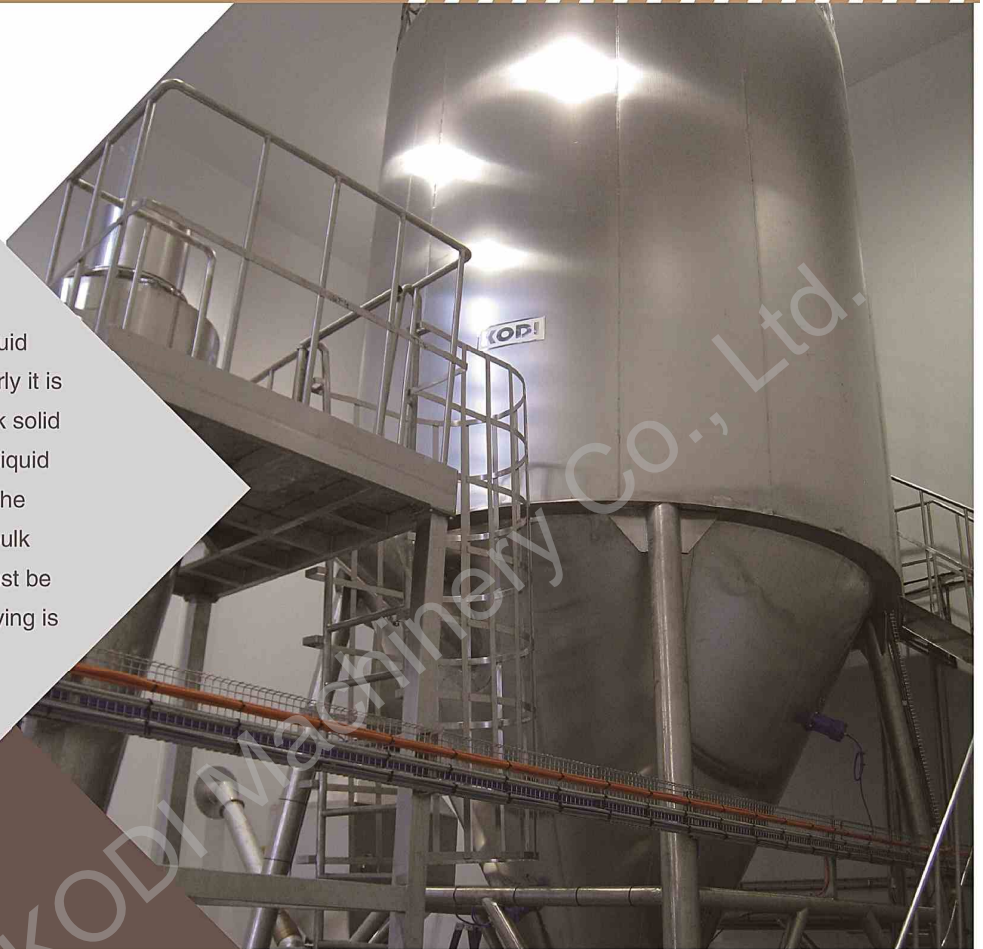


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Description

Spray dryer is a wide applied process in liquid process shaping and drying industry. Particularly it is suitable for producing powder, granule or block solid product from solution, emulsion, suspending liquid and pumped paste liquid. Therefore when the distribution of granule size, final moisture, bulk density, granule shape of finished product must be conformed to accuracy standard, the spray drying is an ideal process.



KODI Rotary Atomizer Spray Dryer

Application

It's widely used in foodstuff, pharmaceutical and chemical industry, such as egg powder, amino acid, protein, food flavor&ingredients, herbal extraction, Alumina, mushroom, PAC, malt dextrin, collagen, juice, yeast etc.



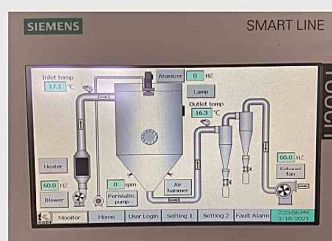
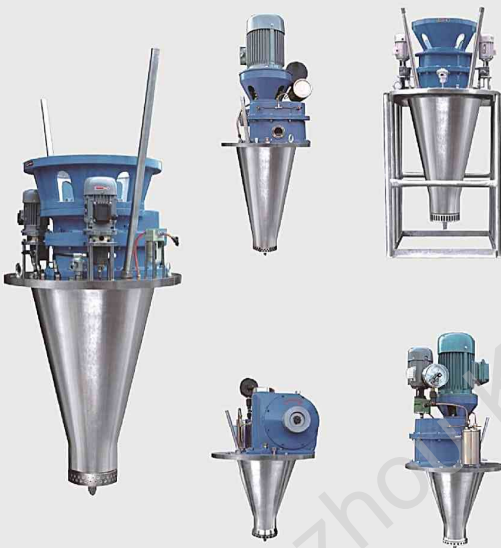


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Features

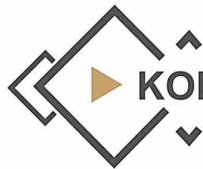
1. Dry speed is very quick. Usually it needs 5–15 seconds.
2. Raw material can be dried momentarily, so it can maintain color, flavor and smell of raw material.
3. Stable and simple operation. It is easy to realize continuous production.
4. Distribution, fluidity and solubility of product are good.





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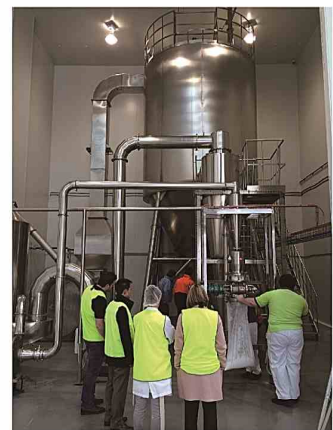
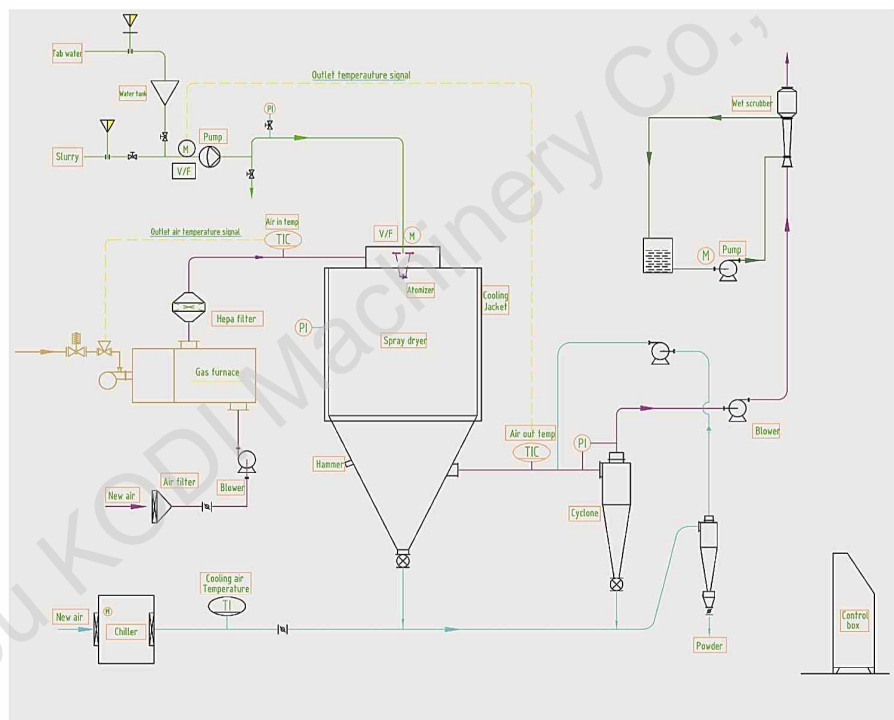


KODI Rotary Atomizer Spray Dryer

Working Principle

After filtering and heating, the hot fresh air enter into top of drying chamber, distributed in spiral way uniformly from up to down. At the same time, the feeding liquid is pumped to the top atomizer, then be sprayed to extremely fine mist liquid drop. Through the short time of direct contact with hot air, the moisture evaporated at once, the solid remains to be powder.

On Site Installation



➤ Packing and Delivery



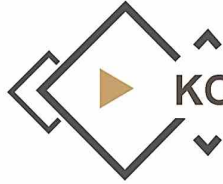
➤ Technical Parameters

Model	MODEL LPG-					
	5	25	50	100	150	200-5000
Inlet air temperature	≤ 350°C					
Outlet air temperature	80-90°C					
Evaporate capacity (kg/h)	5	25	50	100	150	200-5000
Atomizer type	compressed air drive	mechanical drive				
Rotary speed	25000	22000	21500	18000	18000	15000
Diameter of atomizer disc (mm)	50	120	120	120	150	180-500
Heating source	Electricity	Electricity/LPG/Natural gas/Oil/Steam				
Electric-heating power (kw)	9	-	-	-	-	-
Dry powder yield (%)	≥ 95	≥ 95	≥ 95	≥ 95	≥ 95	≥ 95



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KODI Ceramic Powder Spray Dryer

> Description

This spray dryer is widely used in alumina, zirconia, zinc oxide, PTC, silicon carbide, silicon nitride, lithium battery materials.

> Feature

1. The low-cap exhaust structure design can ensure that most of the powder is collected at the bottom of the drying tower, which improve the recovery rate of finished product and greatly reduces the gas-solid separation pressure of the post-stage duster.
2. Heating system adopts non-oxidation heating pipe fittings. The air entering the drying chamber is all filtered through the primary, medium and HEPA three stages, and the purification level reaches more than 100,000.
3. Our bag filter has large filter area, easy cleaning, strong reuse, good antistatic effect and high temperature resistance. At the same time, the recovery efficiency of fine powder is remarkable.
4. The powder pipe adopts quick-loading sanitary pipe fittings. The drying chamber is equipped with cleaning observation manholes and climbing stairs, which are easy to disassemble, clean and replace the product.

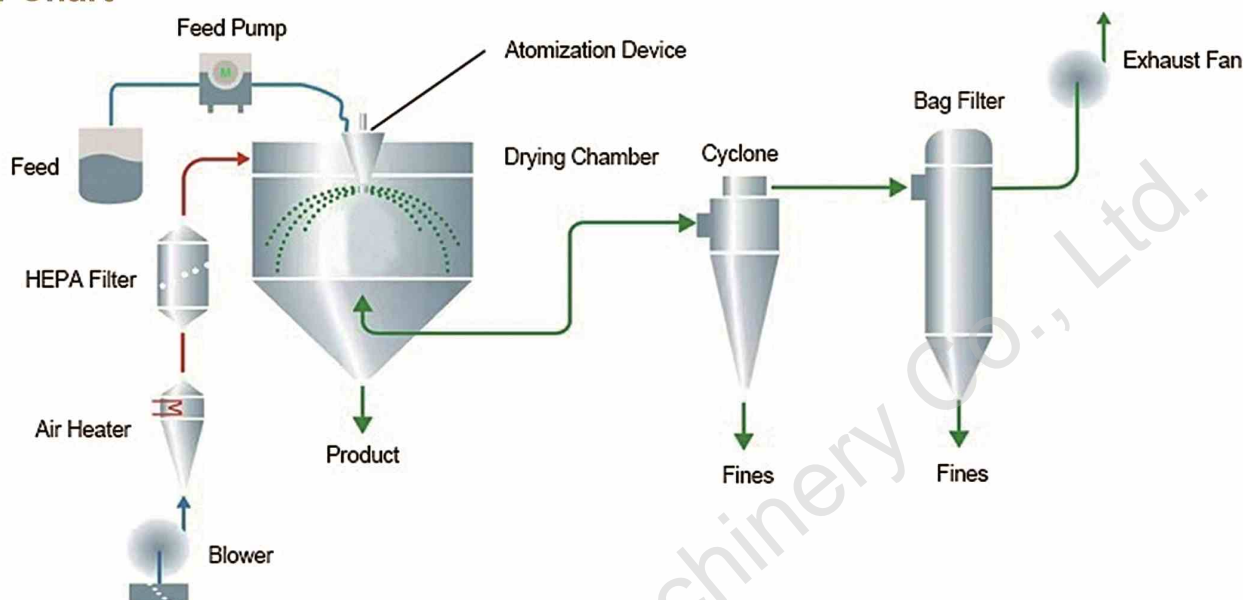




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➤ Flow Chart



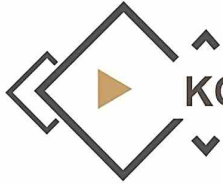
➤ Technical Parameters

Model	KDTC-12	KDTC-16	KDTC-20	KDTC-25	KDTC-30	KDTC-35
Water evaporation	5kg/h	10kg/h	15kg/h	30kg/h	75kg/h	110kg/h
Outer size of drying chamber (mm)	Ø1200	Ø1600	Ø2000	Ø2500	Ø3000	Ø3500
Drying chamber accessory	Manhole, observation window, light, product collection bin, air hammer					
Atomizer disc	Ø65	Ø65	Ø65	Ø84	Ø84	Ø125
Rotating speed	5000-15000 r.p.m					
Product collection method	Low-cap type, two points collection					
Feeding type	Peristaltic pump			Peristaltic pump or screw pump		
Feeding pump capacity	10kg/h	20kg/h	30kg/h	60kg/h	150kg/h	220kg/h
Heating source	Electric heater				Hot air furnace	
Heating consumption	18kw	24kw	36kw	60kw	100,000kcal/h	150,000kcal/h
Max inlet air temperature	300℃					
Matching accessory	Blower, suction fan, Air filter, cyclone separator, bag filter, ladder					
Total power consumption	21kw	27kw	40kw	66kw	8.5kw	10kw
Voltage	380v / 3phase / 50hz					
Control system	HMI + PLC					
Overall size (m)	W2.4*L1.7*H1.9	W2.7*L1.8*H2.4	W3.2*L2.2*H2.5	W3.7*L3.4*H4.9	W5.3*L4.0*H5.9	W6.2*L4.5*H8.0
Remark	The calculation of water evaporation is based on the inlet air temperature of 250 °C and the outlet air temperature of 100 °C.					



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KODI YPG Model Pressure Spray Dryer



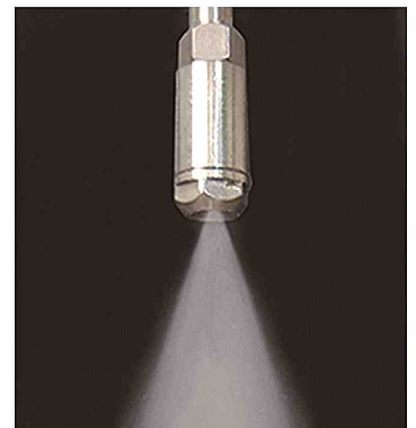
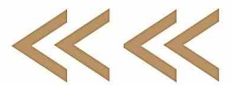
Description

YPG pressure spray dryer is an apparatus that can finish drying and granulating at the same time. The needed ball granule with certain size and ratio can be gotten in accordance with requirements of process to adjust pressure, flow, and size of atomizing hole.

The working of this set is as follows: the liquid of raw material is pumped in through diaphragm pump. The liquid of raw material be atomized into tiny droplets. Then it gathers with hot air and falls off. Most parts of powder material will be collected through the outlet of discharged at the bottom. The wasted air and fine powder will be collected through collector at the bottom of cyclone. At the outlet it can also be equipped with two grades of duster. Its ratio of recovery can be above 99%.

Application

1. Chemical Industry: organic catalyst, resin, synthetic washing powder, oils, thiamin, dyestuff, intermediate of dyestuff, white carbon black, graphite, ammonium phosphate and so on.
2. Foodstuff: amino acid and similar substance, flavoring, protein, starch, dairy products, extractive substance from coffee, fish powder, extractive substance from meat and so on.
3. Pharmaceutical: Chinese patent medicines, agrochemicals, antibiotics, medical drinking agent and so on.
4. Ceramics: magnesium oxide, kaoline, all kinds of metallic oxide and so on.
5. Spray Granulation: all kinds of fertilizer, aluminum oxide, ceramics powder, washing powder and so on.





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Feature

1. The drying speed is fast. The surface area of liquid raw material after being atomized will be increased greatly. 95-98% of moisture can be evaporated at a moment. The time of drying needs about ten seconds to several tens of seconds. It is suitable for drying heat sensitive material particularly.
2. The finished product is ball granule with uniform size. Its fluidity and solubility are good. The purity of product is high and its quality is good.
3. The scope of application is wide. According to the characteristics of raw material, it can use hot air to dry and can also use cool air to granulate. It has strong adaptability to raw materials.
4. Small atomizing power.
5. Its operation is simple and stable and convenient and is easy to realize automatic operation.

Technical Parameters

Model Item		YPG-25	YPG-50	YPG-100	YPG-150	YPG-200	YPG-300	YPG-500	YPG-1000-2000
Evaporated Capacity (kg/h)		25	50	100	150	200	300	500	The index depends on the practical situation.
Diaphragm Pump	Power(KW)	0.35	4	7.5	11	15	22	30	
	Pressure (MPa)	It can be adjusted from 0.6 to 5 according to the material experient. In general, the pressure will be between 1 and 3.							
Heating Style		electricity	electricity +steam		electricity +coal fuel (oil) hot air furnace				
Diameter Of Tower Body (mm)		1300	1800	2400	2600	2800	3200	3800	
Total Height Of Equipment (mm)		7800	9200	11600	14000	15300	17100	19000	

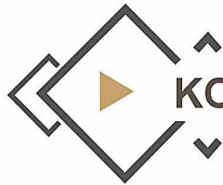
More Photos





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KODI XH Series Mechanical Centrifugal Atomizer

Description

Mechanical centrifugal atomizer is the core component of the spray drying system. It uses centrifugal force caused by mechanical rotation to break the liquid flow into small droplets, and then dry them into solid powder.

At present, we have six series, more than 30 models, and the spray volume can be up to 50 tons per hour to meet the actual needs of users in different fields. It is widely used in the chemical industry, medicine, food, environmental protection, new energy and other industries.



XH-A Series



- ▶ Liquid spraying capacity: 20-100 kg/h
- ▶ Standard rotating speed: 18000 - 22000 rpm
- ▶ Motor power: 1.5-3 kw
- ▶ Atomizing disk diameter: 80-120 mm

Configuration	<input checked="" type="radio"/> Standard	<input type="radio"/> Option	
Atomizing Disk Type	<input checked="" type="radio"/> Standard	<input type="radio"/> Corrosion Resistance	
Rotation Direction	<input checked="" type="radio"/> Anticlockwise	<input type="radio"/> Clockwise	
Contact Part Material	<input checked="" type="radio"/> SUS304	<input type="radio"/> SUS316L	<input type="radio"/> Titanium Alloy
Oil Pressure Detection	<input checked="" type="radio"/> Oil Pressure Transmitter	<input type="radio"/> Pressure Gage	
Oil Temp. Detection	<input type="radio"/> Oil Temperature Transmitter		
Sealing Device	<input checked="" type="radio"/> Mechanical Seal	<input type="radio"/> Air seal	
Cooling Method	<input checked="" type="radio"/> Water cooling	<input type="radio"/> Air cooling	
Block Prevention Device	<input type="radio"/>		
Machine Vibration Test	<input type="radio"/>		

Model	Liquid Spraying Capacity Kg/h	Standard Rotating Speed Rpm	Motor Power Kw	Atomizing Disk Diameter Mm
R30-XH15	20-30	18000-22000	1.5	80
R50-XH25	50	18000-22000	2.2	100
R100-XH50	100	18000-22000	2.2-3	120



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➤ XH-B Series



- ▶ Liquid spraying capacity: 200-2000 kg/h
- ▶ Standard rotating speed: 15500 - 18000 rpm
- ▶ Motor power: 4-15 kw
- ▶ Atomizing disk diameter: 140-180 mm

Configuration	● Standard	○ Option	
Atomizing Disk Type	● Standard	○ Corrosion Resistance	
Rotation Direction	● Anticlockwise	○ Clockwise	
Contact Part Material	● SUS304	○ SUS316L	○ Titanium Alloy
Oil Pressure Detection	● Oil Pressure Transmitter		
Oil Temp. Detection	○ Oil Temperature Transmitter		
Sealing Device	● Mechanical Seal	○ Air seal	
Cooling Method	● Air cooling	● Water cooling	
Block Prevention Device	○		
Machine Vibration Test	○		

Model	Liquid Spraying Capacity Kg/h	Standard Rotating Speed Rpm	Motor Power Kw	Atomizing Disk Diameter Mm
R200-XH100	200	15500-18000	4	140
R300-XH150	300	15500-18000	5.5	150
R400-XH200	400	15500-18000	5.5	150
R600-XH300	600	15500-18000	7.5	160
R1000-XH500	1000	15500-18000	7.5-11	170
R2000-XH1000	2000	15500-18000	11-15	180

➤ XH-C Series



- ▶ Liquid spraying capacity: 3-20 T/h
- ▶ Standard rotating speed: 12000 - 14800 rpm
- ▶ Motor power: 18.5-132 kw
- ▶ Atomizing disk diameter: 200-230 mm

Configuration	● Standard	○ Option	
Atomizing Disk Type	● Standard	○ Corrosion Resistance	
Rotation Direction	● Anticlockwise	○ Clockwise	
Contact Part Material	● SUS304	○ SUS316L	○ Titanium Alloy
Double Oil Supply System	●		
Oil Pressure Detection	● Oil Pressure Transmitter		
Oil Temp. Detection	● Oil Temperature Transmitter		
Sealing Device	● Mechanical Seal	● Air seal	
External condenser	●		
Cooling Method	● Air cooling	● Water cooling	
Block Prevention Device	●		
Machine Vibration Test	●		

Model	Liquid Spraying Capacity T/h	Standard Rotating Speed Rpm	Motor Power Kw	Atomizing Disk Diameter Mm
R4T	4	12000-14800	18.5-22	200
R6T	6	12000-14800	30-37	200-210
R8T	8	12000	45-55	210
R10T	10	12000	55-75	210
R12T	12	12000	90	210
R15T	15	12000	90-110	220
R20T	20	12000	110-132	230



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Product Details



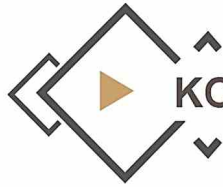
Packing





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KODI XH Series Electric Centrifugal Atomizer

Description

Electric centrifugal atomizer is widely used in spray drying system. It adopts a high speed motor to directly drive the atomization disc, it also using the international advanced frequency conversion technology, customer could choose the best rotating speed according to the raw liquid temperature and viscosity.

Our electric centrifugal atomizer motor power range is 0.4kw~22kw, and the rotating speed is 8000~4000RPM. Its advantages are compact structure, energy saving, reliable use, stable performance, widely praised by customers!



Technic Parameter

Item	Model	XH												
		5	10	25	50	100	150	200	300	500	1000	2000	4000	5000
Power (kw)		0.4	0.75	0.75	1.5	2.2	4	4.5	5.5	7.5	10	15	22	22
Rotating Speed (r/min)		24000~40000	18000~24000	18000~24000	15000~22000	12600~20000	10800~18000	10800~16000	10800~15000	10800~14000	8000~12000	6000~9000	5000~8500	4500~8000
Rated Voltage (v)		75	220				380							
Spray Volume (kg/h)		10	20	50	100	200	300	400	600	1000	1500	2000	4000	5000
Max Water Evaporation (kg/h)		5	10	25	50	100	150	200	300	500	500	1000	2000	2500
Disc Diameter (mm)		50	80	102	120	135	155	155	180	180	180	200	300	302
Cooling Method		Water cooling										Water cooling		
Lubrication Method		Grease lubrication										Grease or oil lubrication		



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Machine pictures

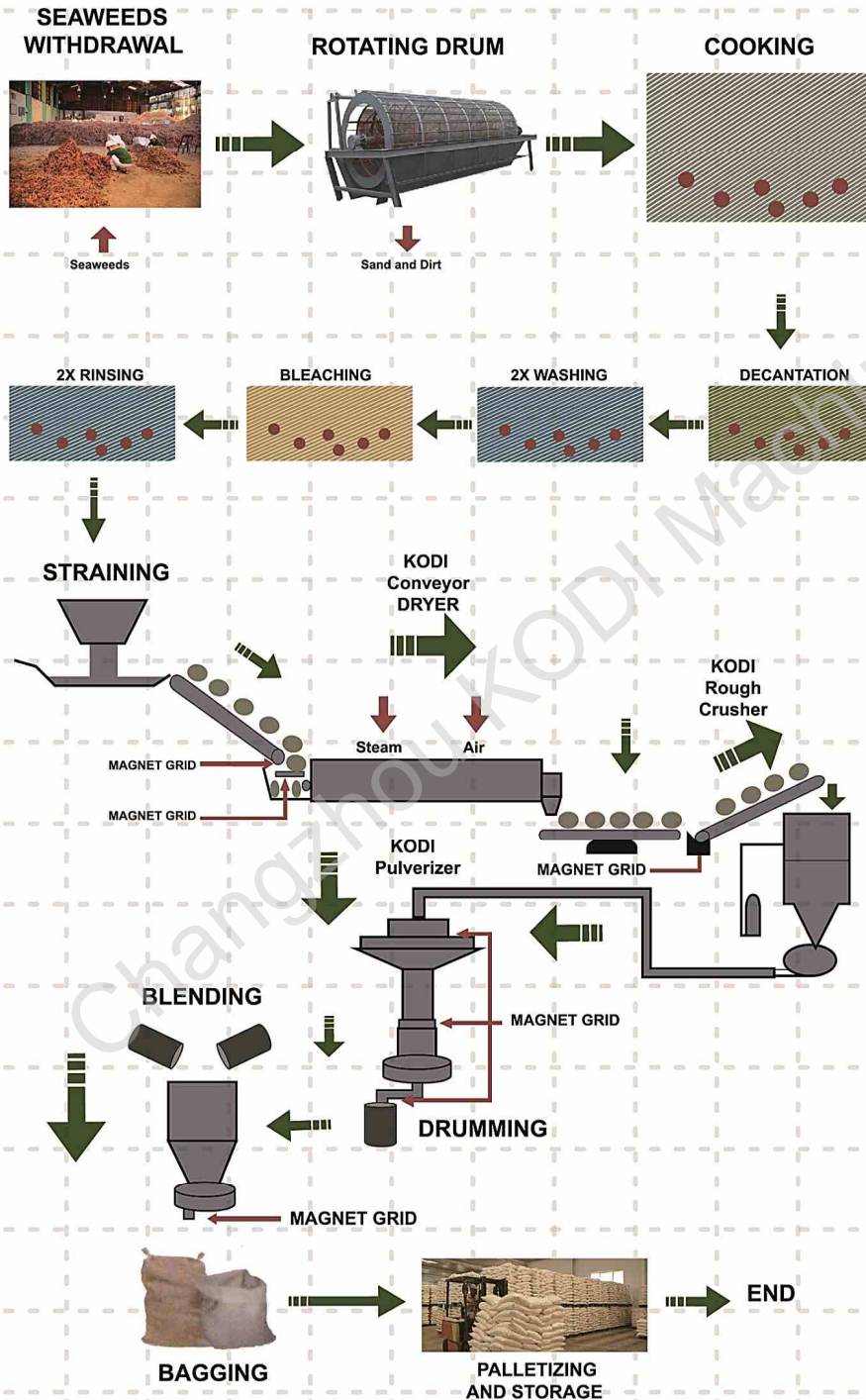




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PROCESS FLOW CHART SEMI-REFINED CARRAGEENAN



Description

The seaweeds after treatment should be distributed on the conveyor belt through swing distributor conveyor or other device, the conveyor passes through the channel including of one or several heating unit.

Each heating unit is equipped with steam heat exchanger and hot air circle system.

Each unit has one or several vapor discharge systems.

When the conveyor passes through it, hot air will pass through the seaweeds from up to down then next from down to up. In this way the seaweeds can be dried uniformly.



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Production



Features

1. Air volume, heating temperature, seaweeds staying time and feeding speed can be adjusted to achieve the best drying effect automatically.
2. Most hot air is recycled to realize saving energy
3. The machine is equipped with unique air distribution plate, it makes the hot air distributed onto the seaweeds uniformly better and guarantee the quality and color of products is perfect.
4. Temperature control is very accurate in each drying unit separately, The real working temperature is only maximum 1℃ different from your setting temperature



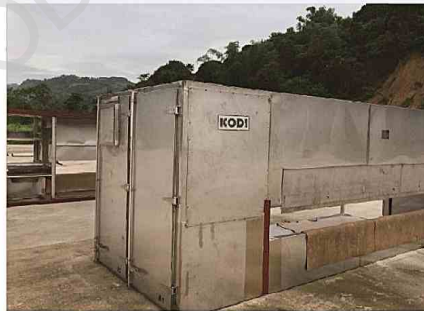
Application

KODI Conveyor dryer is widely used for food industry like carrageenan, coconut, fruit, herbal medicine, vegetables. Especially it is suitable for drying raw materials that are good in breathability and have the shape of pieces or strip of granule. It is also possible to dry the pasted raw materials such as filter cake after shaped through granulator or extruder.



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KODI's Advantage

15 YEARS EXPERIENCES
15 years drying equipment experience and 8 years on carriageenan

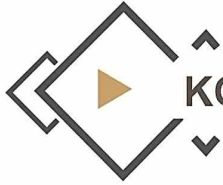
SPEEDY GET
Get your wearing parts in 3-5 days by DHL/FedEx from our storage

ONSITE INSTALLATION
Install the machines with our engineer's onsite supervising



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KODI ZLG Model Vibrating Fluid Bed Dryer



> Description

The raw material has been feed into the vibrating fluid bed dryer, under the dual function of the vibration and air flow, the material move along the fluid bed as throwing forward continuously. Hot air upward through the fluid bed and wet materials from the heat after the exchange, after the cyclone dust emissions from dry materials from discharging from the discharging end.

> Application

1. The vibration is created by motor. It is stable in operation and convenient in maintenance, low noise and long life.
2. High heat efficiency, raw material is heated evenly and heat exchange is fully used and dry capacity is high. the energy can be saved about 30% than before design. The state of fluidization is uniform.
3. It is good in regulation and wide in suitability. The thickness of raw material layer and movable speed inside the machine and the amplitude can be adjusted.
4. It is small for damaging the surface of raw material. The equipment can be used for drying raw materials that are easy broken. The drying effect can not be affected even if raw materials have irregular shape.
5. It is effective to prevent cross pollution between raw material and air because the equipment adapts fully closed structure. The environment of operation is clean.



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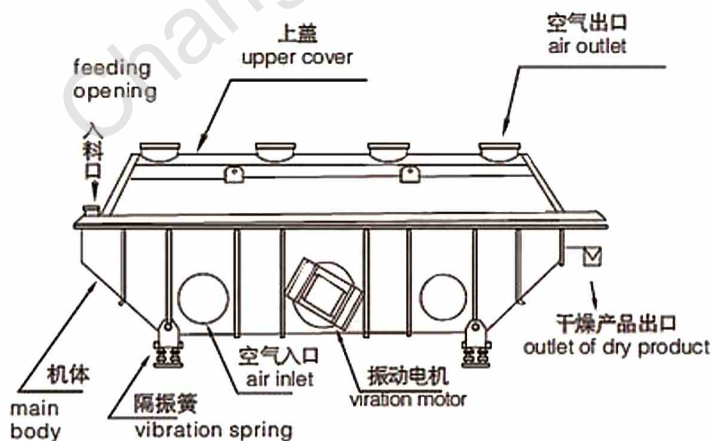
➤ Application

It is widely used in light industry, chemical industry, foodstuff, agricultural products, powder, granule, and small block material in pharmaceutical industry. Material examples are as following: refined salt, aginomoto, citric acid, oxalate, potassium permanganate, sesame, pentaerythritol, HPAM, feed, hypha protein, sodium sulfate, plastic archon, catalyst, stripping and slicing potato, baking soda, detergent, quartz sand, soybean billet, ban pulp, metal powder, boric acid, sodium borate, activated clay, compound fertilizer, etc.

➤ Technical Parameters

Model	Area of fluidized-bed (M2)	Temperature of inlet air(°C)	Temperature of outlet air (°C)	Water evaporation (kg/h)	Vibration motor Model	Power Kw
ZLG3×0.30	0.9	70-140	40-70	20-35	ZDS31-6	0.8×2
ZLG4.5×0.60	2.7	70-140	40-70	70-90	ZDS32-6	1.1×2
ZLG6×0.60	3.6	70-140	40-70	100-130	ZDS41-6	1.5×2
ZLG6×0.75	4.5	70-140	40-70	120-140	ZDS42-6	2.2×2
ZLG6×0.9	5.4	70-140	40-70	140-170	ZDS42-6	2.2×2
ZLG7.5×0.75	5.625	70-140	40-70	150-180	ZDS51-6	3.0×2
ZLG7.5×0.9	6.75	70-140	40-70	160-210	ZDS51-6	3.0×2
ZLG7.5×1.2	9	70-140	40-70	200-260	ZDS51-6	3.0×2

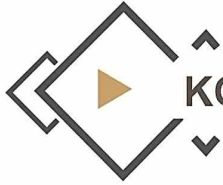
➤ More Photos





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KODI SZG Model Double Cone Rotary Vacuum Dryer



Description

The rotary vacuum dryer consists of a jacketed double conical shell rotating around 6 RPM with under the state of vacuum inside the shell, pass steam or hot water in to jacket for heating. The large heating surface area presented by the internals of the cone ensures uniform drying of the product, as the product gently tumbles while the cone rotates slowly. The vaporized steam can be pumped out through vacuum exhaust pipe when the damp raw material absorbed heat. The diffusive action induced by the tumbling cone constantly presents a fresh layer to come into contact with the indirectly heated walls of the shell, the dry speed of raw material is quickened and uniform drying efficiency is raised too. A well designed sealing system enable maintenance of deep vacuum inside the shell, and also ensures positive circulation of a heating media in the jacket.

Application

1. Material that cannot undertake high temperature.
2. Material that is easy to oxidize.
3. Material that do not permit to destruct.
4. To recover material with residual volatile.
5. Material with vigorous irrelative and toxicity.
6. Biology products and mine.
7. Dry raw materials of pharmaceutical industry, chemical industry, foodstuff industry, dyestuff industry and biochemistry at low temp etc.





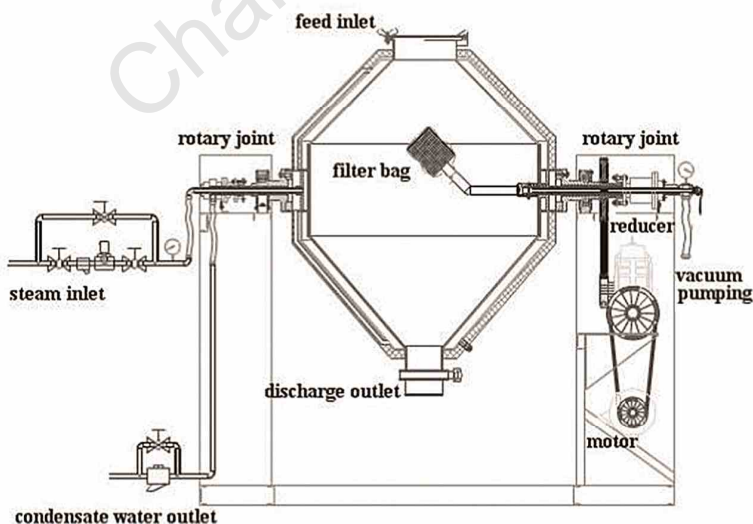
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Technical Parameters

Model (SZG-)	100	350	500	750	1000	1500	2000	3500	4500	5000
Total volume (L)	100	350	500	750	1000	1500	2000	3500	4500	5000
Loading volume (L)	≤50	≤175	≤250	≤375	≤500	≤750	≤1000	≤1750	≤2250	≤2500
Heating area (m2)	1.16	2	2.63	3.5	4.61	5.58	7.5	11.2	13.1	14.1
Rotary speed (rpm)	4-6									
Power of motor (kw)	0.75	1.1	1.5	2	3	3	4	5.5	7.5	11
Occupied area L×W(mm)	2160 ×800	2260 ×800	2350 ×800	2560 ×1000	2860 ×1300	3060 ×1300	3260 ×1400	3760 ×1800	3960 ×2000	4400 ×2500
Rotary height (mm)	1750	2100	2250	2490	2800	2940	2990	3490	4100	4200
Design pressure inside the tank (MPa)	-0.25									
Design pressure of jacket (MPa)	≤0.3									
working temperature (oC)	In the tank≤85 jacket≤140									
When use condenser	2X-15A	2X-15A	2X-30A	2X-30A	2X-70A	JZX300-8	JZX300-4	JZX600-8	JZX600-4	JZX300-4
model and power of vacuum pump	2KW	2KW	3KW	3KW	505KW	7KW	9.5KW	11KW	20.5KW	22KW
When don't use condenser	SK-0.4	SK-0.8	SK-0.8	SK-2.7B	SK-2.7B	SK-3	SK-6	SK-6	SK-9	SK-10
model and power of vacuum pump	1.5KW	2.2KW	2.2KW	4KW	4KW	5.5KW	11KW	11KW	15KW	18.5KW
Weight(kg)	800	1100	1200	1500	2800	3300	3600	6400	7500	8600

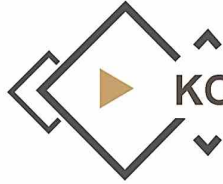
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KODI CT-C Series Hot Air Circle Drying Oven



Description

CT-C hot air circle drying oven adopts noise elimination and thermal stable axial flow fan and automatic temperature control system. The entire circulation system is enclosed to make that the heat efficiency of the tray dryer increases from 3~7% of the traditional tray dryer to 35~45% of the present one. The highest heat efficiency can be up to 50%. The successful design of CT-C hot air circulation oven makes that the hot air circulation tray dryer in our country reach the advanced level in the world. It saves energy and increases the economic benefit.

Feature

1. Three kinds of heat source are used for heating : electricity, steam+ electricity.
2. Operation temperature: steam, 50-140°C. Max. 150°C, electricity, 50~350°C. The temperature can be controlled automatically. Moreover it can be recorded through recorder.
3. The inner wall of oven body is fully welded. Each transition adopts circular arc and no dead.
4. The seal property of whole machine is good. Being adopted unique guide rail seal apparatus.
5. The air inlet is equipped with high effective air filter and exhaust outlet is equipped with middle effective air filter.
6. The double doors of oven adapt mechanical interlock apparatus.
7. All parts inside the oven can be assembled and disassembled quickly in order to clean conveniently.
8. The control system has test display and touch screen for your choice.
9. The whole machine is in conformity with the requirements of GMP.



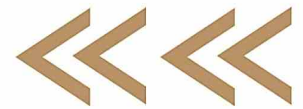
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Technical Parameters

Model	CT-C-0	CT-C-I	CT-C-II	CT-C-II A	CT-C-III	CT-C-III A	CT-C-IV
Drying capacity(kg/lot)	60	120	240	240	360	360	480
Electric heating power(kw)	6-9	15	30	30	45	45	60
Fan power(kw)	0.45	0.45	0.45*2	0.45*2	0.45*3	0.45*3	0.45*4
Overall dimensions W*D*H(mm)	1380*1200*2000	2260*1200*2000	2260*2200*2000	4280*1200*2270	2260*3200*2000	3240*2200*2000	4480*2200*2270
Equipped drying cart(set)	1	2	4	4	6	6	8
Equipped drying tray (pc)	24	48	96	96	144	144	192
Temperature automatic control box	available	available	available	available	available	available	available
Total weight(kg)	820	1580	1800	1880	2100	2210	2800

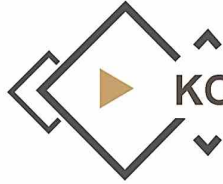
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KODI YZG / FZG Series Vacuum Tray Dryer

> Description



In the drying chamber, material will be dried under vacuum condition. Under the vacuum condition, the boiling point of material solution will reduce. It will increase impetus for heat and mass exchange. Therefore for certain heat exchange amount, it can save heat exchange area of evaporator

This equipment can be used for low temperature drying and organic solvent recovery. Heat source can be steam, hot water and thermal oil. It is specially suitable for drying materials that is easily oxygenated during drying.



> Feature

1. It can get higher drying capacity at lower temperature and the heat energy can be used fully.
2. It is suitable for materials such as heat sensitive and easy oxidizable material.
3. It can dry raw materials that contain solvent and which needs to be recovered.
4. Before drying, it can carry out disinfectant treatment. During the period of drying, any impurity can not enter it.
5. The dryer belongs to static drying, materials will not be damaged.
6. The machine is a kind of batch type operation and can adjust technical process at any time.

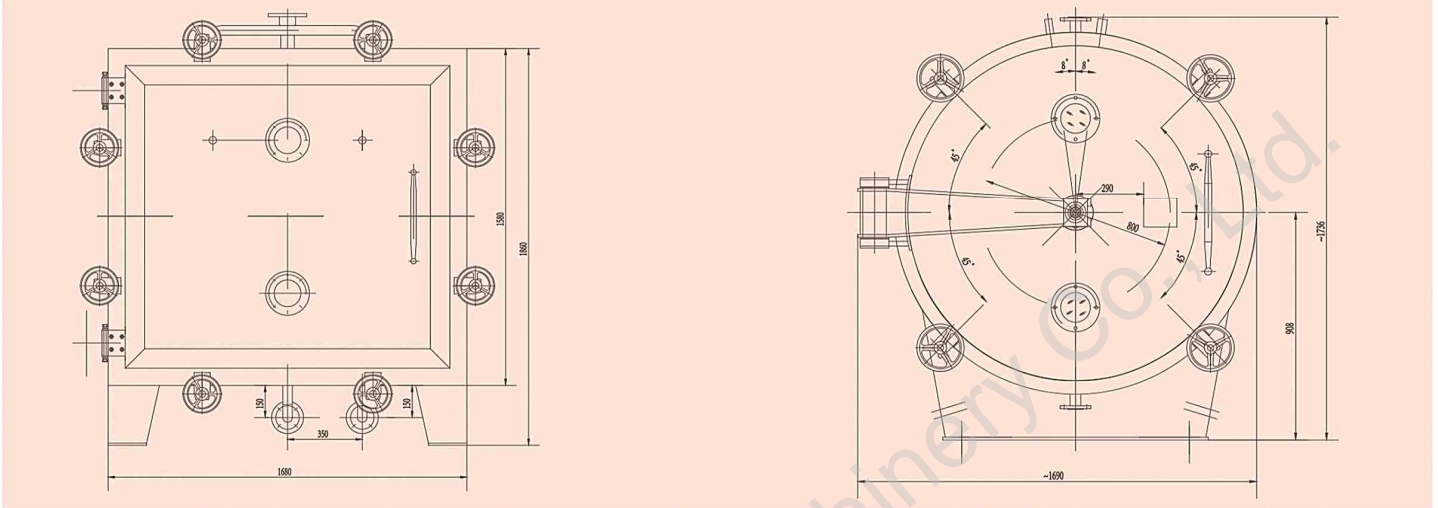




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➤ Flow Chart



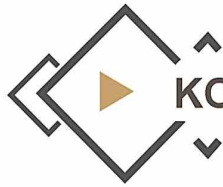
➤ Technical Parameters

Model	YZG-600	YZG-800	YZG-1000	YZG-1400	FZG-10	FZG-15	FZG-20
Inner size of drying chamber (mm)	600×976	800×1247	1000×1527	1400×2054	1500×1060×1220	1500×1400×1220	1500×1800×1220
Outer size of drying chamber (mm)	1153×810×1020	1700×1045×1335	1693×1190×1500	2386×1657×1920	1924×1720×1513	1513×1924×2060	1924×2500×1513
Layers of backing support	4	4	6	8	5	8	12
Interval between each support (mm)	81	82	102	102	122	122	122
Size of tray (mm)	310×600×45	520×410×45	520×410×45	460×640×45	460×640×45	460×640×45	460×640×45
Quantity of tray	4	8	12	32	20	32	48
Working pressure inside the pipe of baking support (MPa)	≤0.784	≤0.784	≤0.784	≤0.784	≤0.784	≤0.784	≤0.784
Operating temperature of backing support (°C)	35~150	35~150	35~150	35~150	35~150	35~150	35~150
Vacuum degree inside the chamber when operation in idle (Mpa)	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09
Under the condition of -0.1Mpa 110℃, water evaporation (kg/m ² ,hr)	7.2	7.2	7.2	7.2	7.2	7.2	7.2
Model and power of vacuum pump when condenser is used(kw)	2X-15A 2kw	2X-30A 3kw	2X-15A 3kw	2X-70A 5.5kw	2X-70A 5.5kw	2X-70A 7.5kw	2X-70A 7.5kw
Weight of drying chamber(kg)	250	600	800	1400	1400	2100	3200



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KODI XSG Series Spin Flash Dryer

➤ Description



XSG Spin Flash Dryer is widely used for drying materials such as paste, cake shape, powder, granules material, etc. It is a new type high drying efficiency and low energy consumption equipment that researched and developed by our company.

The spin flash dryer has a wide application scope, it can be used for drying in fire retardant, molecular sieve, rubber and plastic assistance, pesticide, pigment, dyestuff, fine chemicals, feedstuff, pharmaceutical and part intermediate industries.

➤ Feature

1. Different kinds of feeding device can be chosen, feeding is continuous and stable, there is no bridge phenomenon.
2. There is special cooling device at the bottom of dryer, it can avoid the material deteriorate in the bottom high temperature area.
3. Special air sealing device and bearing cooling device and make the life of transmission device longer effectively.
4. There is special air distributing device, it reduces the resistance of equipment, and make the air speed in drying chamber be balanced.
5. There are classification rings and turbojet plates in the drying chamber, fineness and final moisture of product and be adjusted and controlled.
6. In the drying chamber air speed is fast, drying time is short, it can avoid material stick on the wall and deterioration effectively.



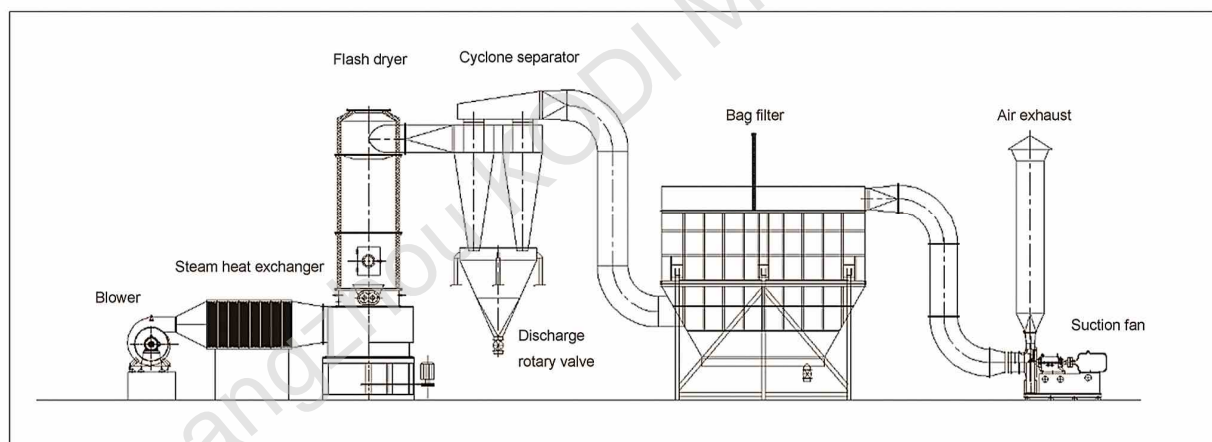
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Technical Parameters

Model	Inner diameter (mm)	Air volume (m ³ /h)	Water evaporation (kg/h)	Install power (kw)	Max height (m)	Occupied area (m ²)
XSG-4	400	2100	60	25	4.6	19
XSG-6	600	4500	130	37	5.5	26
XSG-8	800	7500	240	48	6	34
XSG-10	1000	12000	400	75	6.5	45
XSG-12	1200	18000	610	85	7	58
XSG-14	1400	24000	800	98	7.8	76
XSG-16	1600	30000	1000	135	8.5	110
XSG-20	1800	40000	1300	215	9.2	150

Flow Chart & More Photos





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KODI FL Model Fluid Bed Granulator

Description

The powder particles in the container fluid-bed) appear the state of fluidization. It is preheated and mixed with clean and hot air. At the same time the solution of adhesive solvent is fogged and sprayed into the container. It makes some of particles become granules that contains adhesive. Being of unceasing dry through hot air, the moisture in the granules is evaporated and the adhesive is solidification. The process is carried out continuously. Finally it forms ideal, uniform and porous granules.



Application

FL fluid bed granulator is mainly used for the operations of mixing, granulating, drying and coating of granule "Top Spraying", etc of powder material in pharmaceutical industry, foodstuff industry, chemical industry, etc. Such as granule of tablet, granule for quick resolving drinking, condiment. The machine is manufactured in accordance with JB20014-2004 Fluid-bed Granulator in medicine.



Features:

1. Through powder granulating, the flow property is improved and the dust is reduced.
2. The unique design of the nozzle can meet the granulating requirements of the products with different characteristics.
3. Through powder granulating, its solving property is improved.
4. Mixing, granulating and drying can be finished in one step inside the machine.
5. The operation of equipment is safe because the anti-static filtering cloth is adopted.
6. The operation personnel can't be damaged if explosion takes place because of the releasing hole.
7. The equipment has no dead corner. Therefore the loading and unloading are quick, light and clean. It meets the requirements of GMP.

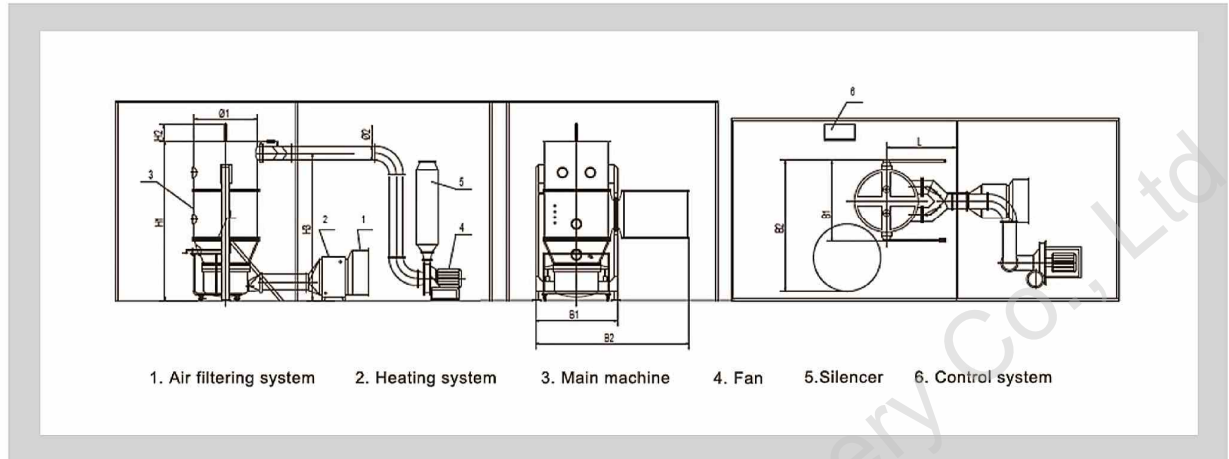




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➤ Process Flow Chart



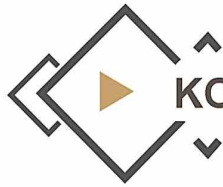
➤ Technical Parameters

Item		unit	Machine Model								
			3	5	15	30	60	120	200	300	500
Material container	Diameter	L	12	22	45	100	220	420	670	1000	1500
	Volume	mm	300	400	550	700	1000	1200	1400	1600	1800
Production capacity	Min.	kg	1.5	4	10	15	30	80	100	150	250
	Max.	kg	4.5	6	20	45	90	160	300	450	750
Fan	Air volume	m	1000	1200	1400	1800	3000	4500	6000	7000	8000
	Air pressure	mm H ₂ O	375	375	480	480	950	950	950	950	950
	Power	kw	3	4	5.5	7.5	11	18.5	22	30	45
Steam consumption		Kg/h	15	23	42	70	141	211	282	366	451
Compressed air consumption		m ³ /min	0.9	0.9	0.9	0.9	1.0	1.0	1.1	1.5	1.5
Weight of main machine		kg	500	700	900	1000	1100	1300	1500	1800	2000
Steam pressure		mpa	0.3-0.6								
Temperature		°C	Room temperature ~120°C (adjustable)								
Operating time		min	Depends on materials property 45-90								
Final product rate		%	≥ 99								
Noise		dB(A)	The fan is separated from main machine when installed, noise ≤75dB								
Overall dimension (L * W * H)		m	1.0x0.6x2.1	1.2x0.7x2.1	1.25x0.9x2.5	1.6x1.1x2.5	1.85x1.4x3	2.2x1.65x3.3	2.34x1.7x3.8	2.8x2.0x4.0	3x2.25x4.4



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KODI Dry Powder Granulator

Description

Dry granulation machine is a device that produces particles from dry powder through processes such as screw conveying, pressure wheel extrusion, thin sheet crushing, and rotary pressure. It can be divided into horizontal feeding type and vertical discharging type according to the way of feeding from the screw to the pressure wheel;

Feature

1. High one-time granulation rate. The screen mesh is made of welded woven mesh, which not only extends the service life of the screen mesh, but also facilitates the installation of particles once.
2. The granulation rate of traditional Chinese medicine formula granules with 10-40 mesh can reach 60%, and the granulation rate of chemical medicine granules with 20-80 mesh can reach over 75%.
3. Our company's equipment has a large processing capacity and high output. The product series is rich, the specifications are complete, It has been applied in multiple companies.



4. Good sealing performance ensures the safety of production personnel and medicine drugs.

5. The structure is simple, easy to disassemble and assemble, with few fasteners such as bolts and nuts, and few specifications. Disassembly and installation can be completed in just a few minutes.

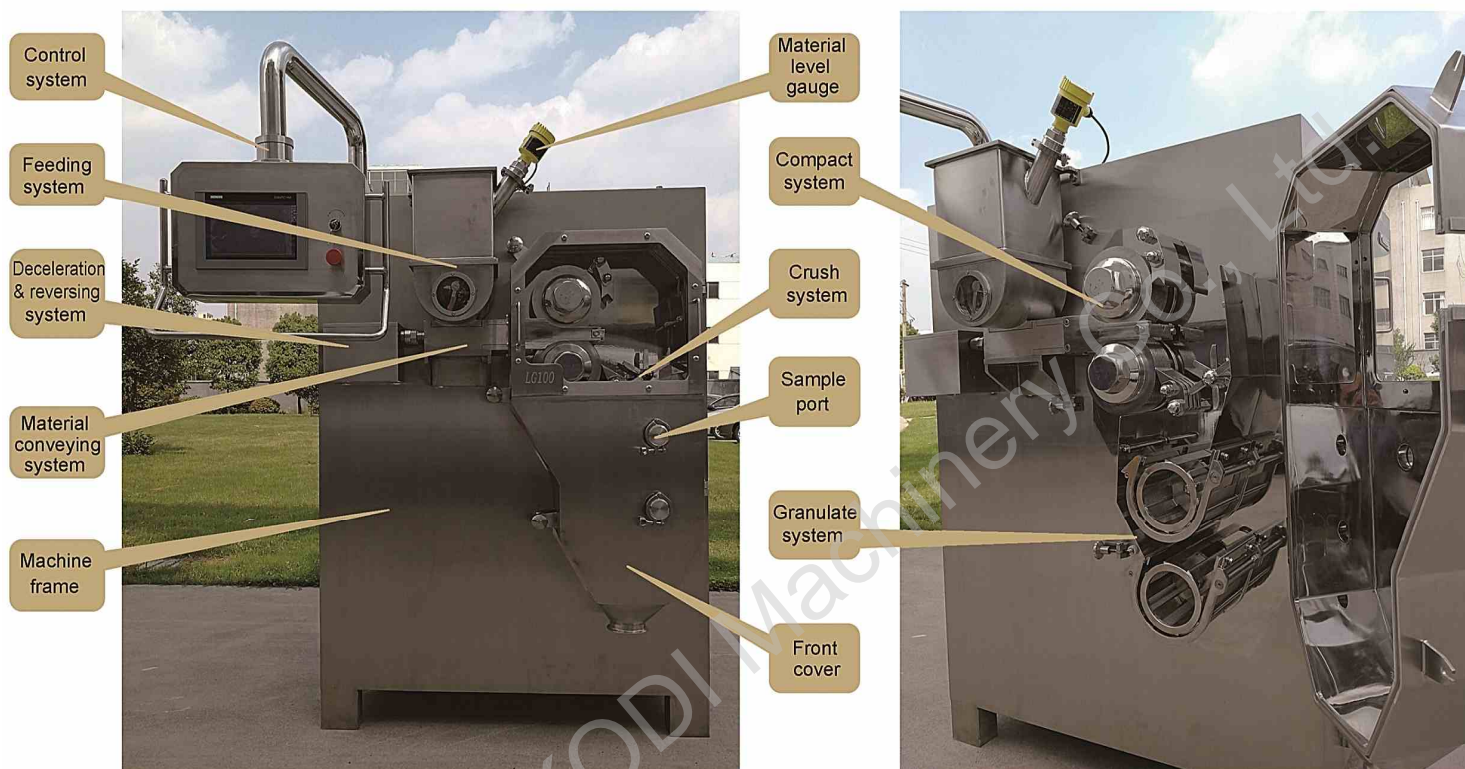




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➤ Process chart



➤ Technical Parameters

Model	LG100	LG100E	LG160	LG200	LG240	LG360
Feeding Capacity (kg/h)	1.5-15	12-40	30-150	80-300	180-450	800-1200
Total Power (kw)	3.07	3.13	6.3	11.24	15.94	28.24
Compact roll siz (diameter x width)	100 x 25	100 x 40	160 x 50	200 x 75	240 x 100	360 x 150

Remark: E represents widened compact roll, standard roll omitted.



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➤ Multiple Layout Methods



Horizontal type



Vertical type



Wall embedded type



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➤ Production Workshop



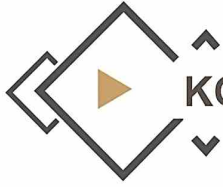
➤ Customer Site





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KODI V Shape Rotating Mixer

Description

V type mixer is designed in accordance with GMP with compact structure, convenient operation good safety and high efficiency. For mixing dry powders or small granules with good flowability in Food, Chemical and Pharmaceutical industry.

Vacuum feeding and sealing butterfly valve discharging can be adopted for special materials to realize dust-free operation (The feeding modes include manual feeding and vacuum feeding, which can be determined by users).

The mixer inner walls are smooth without any dead corner. The mixing evenness of 99%, high mixing precision and high speed, ideal mixing effect is achieved.



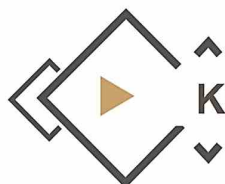
Technical Parameters

Model	Product capacity (kg/batch)	Volume(m3)	Mixing time (min)	Power (kw)	Cylinder revolution (r/min)	Stirring speed (r/min)	Overall dimension (mm)	Weight(kg)
V-180	60	0.18	2-5	1.1×2	12	500	1730×700×1500	320
V-300	80	0.3	4-10	1.1×2.2	12	500	2005×700×1760	360
V-500	130	0.5	4-10	1.1×2.2	12	500	2660×1250×2400	600
V-1000	240	1	6-10	3×2.2	12	500	3220×1500×2840	100



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KODI GHJ-W Series Double Cone Mixer

Description

This machine is applicable to mix dry granule material for pharmacy and other relative industries.

It has the features of the special construction, high effect, no dead angle, uniform mixture. The machine can also increase to blend the function compulsorily. It can mix thin powder and more than two form powders including the materials that contain water. It can get the good result of admixture (meaning that little admixture additives).



Technical Parameters

Model	GHJ-50W	GHJ-180W	GHJ-300W	GHJ-500W	GHJ-1000W	GHJ-1500W	GHJ-2000W	GHJ-2500W	GHJ-3000W	GHJ-4000W
Gross volume (L)	50	180	300	500	1000	1500	2000	2500	3000	4000
Working volume (L)	30	108	180	300	600	900	1200	1500	1800	2400
Mixing time (Min)	4-8	4-8	6-10	6-10	6-10	6-10	6-10	6-10	6-10	6-10
Rotary speed (Rpm)	12	12	12	12	12	12	12	12	7.8	7.8
Power (Kw)	0.75	1.1	1.1	2.2	4	4	7.5	7.5	7.5	11
Weight (Kg)	200	280	380	550	700	900	1500	1800	2200	2800

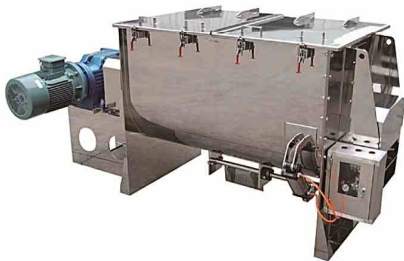


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WLDH Model Horizontal Ribbon Blender



Descriptions

Ribbon Blender is composed of container, screw stirring paddles and transitional parts; the screw paddle are generally made into 1 layers or 3 layers, the outer screw converge is the material to the center from two sides, and the inner layer of screw conveys the material to the two sides from the center, so as to from convection mixing.

Main Application

The ribbon mixer is generally used to mix viscous or adhesive powder material, or powder with liquid additive, or pasty material. Because it is difficult to clean viscous material, the machine is good at mixing material with large capacity and continuous demand.

This machine is applied in the industry of pharmaceutical, foodstuff, chemical, pesticides, plastic, pigment and cosmetics.

Technical Parameters

Model Project	All volume (M3)	Loads coefficient	Electrical machinery power (KW)	Size(mm)× Max-diameter ×High	Equipment weight (kg)
WLDH-0.1	0.1	0.4-0.8	3	1190×740×770	330
WLDH-0.3	0.3	0.4-0.8	4	2030×630×980	720
WLDH-0.5	0.5	0.4-0.8	7.5	2320×730×1130	980
WLDH-1	1	0.4-0.8	11	2800×920×1320	1700
WLDH-1.5	1.5	0.4-0.8	11	3180×1020×1550	1800
WLDH-2	2	0.4-0.8	15	3310×1120×1640	2100
WLDH-3	3	0.4-0.8	18.5	3750×1290×1820	3000
WLDH-4	4	0.4-0.8	22	4220×1400×1990	3980
WLDH-5	5	0.4-0.8	22	4220×1500×2100	4620
WLDH-6	6	0.4-0.8	30	4700×1610×2260	6180
WLDH-8	8	0.4-0.8	37	4420×2150×2470	8200
WLDH-10	10	0.4-0.8	45	5520×2960×2720	8920
WLDH-12	12	0.4-0.8	45	5720×3010×2840	9520
WLDH-15	15	0.4-0.8	55	5840×3540×2940	9950





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KODI Stainless Steel Storage & Mixing Tank

Description

KODI can offer all types and sizes of processing tanks, depending on your needs, According to different storage ability within 50L~20000L, single-layer, dual-layer stainless steel tanks, with or without agitation to blend product, electrically heated, tilt-type, vacuum type, cooker/cooler and all other types.



Technical Parameters

Material	SS304 or SS316L or Duplex stainless
Design Pressure	-1 -10 Bar (g) or ATM B9
Work Temperature	0-200 ° C
Volumes	50~20000L
Construction	Vertical type or Horizontal type
Jacket type	Dimple jacket, full jacket, or coil jacket
Structure	Single layer vessel, vessel with jacket, vessel with jacket and insulation
Heating or cooling function	According to the heating or cooling requirement ,the tank will have jacket for required function
Blending speed	Common rotation speed 35,43,60 ; stepless speed reducer or dual-speed reducer are also available
Optional Motor	ABB, Siemens, SEW or Chinese brand
Surface Finish	Mirror Polish or Matt polish or Acid wash & pickling or 2B
Optional components	Vent filter, Temp. Gauge, display on the gauge directly on the vessel Temp sensor PT100, digital display on the control cabinet by instrument Temp sensor with control for heating and cooling Level gauge with digital display on the control cabinet by instrument Load cell Valves



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KODI WF Series Universal Crusher

➤ Description

This industrial universal crusher uses the relative movement between the active of fluted disc and the fixed fluted disc to impact, grind and crush the target materials.

The crushed material can enter the collection box by the centrifugal force. The dust from grinding is filtered and recycled via the cloth bag or filter of the dust absorption box. The whole machine, designed according to "GMP" standard, is made of stainless steel, thus to avoid dust flying, improve the utilization of raw material and decrease the production cost. Currently, the machine has been on the world advanced level.

The WF Series Universal Crusher Grinder is mainly applied for the material grinding for the trades of pharmaceuticals, chemical and foodstuff, etc.



➤ More Photos





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Technical Parameters

WF Series Universal Crusher Grinder Without Dust Absorption

Model	18	20	30	40	60	80	100
Capacity(kg/h)	10-50	60-150	100-400	160-1000	500-1200	1000-5000	2000-8000
Speed of principal axis(r/min)	6000	4500	3800	3400	2800	2000	1500
Size of input granules(mm)	<6	<6	<6	<10	<12	<12	<12
Fineness of products(mesh)	20-120	12-120	20-120	12-120	20-120	20-120	20-120
Power(KW)	2.2	4	5.5	11	18.5	37	55
Weight(kg)	100	280	350	550	680	1500	2500
Overall size (mm)	550*400*850	550*600*1250	600*700*1450	800*900*1550	900*900*1880	1100*950*1960	1350*1000*2100

WF Series Universal Crusher Grinder With Dust Absorption

Model	18B	20B	30B	40B	60B
Capacity(kg/h)	5-30	20-150	30-300	40-800	60-1200
Speed of principal axis(r/min)	5200	4500	3800	3400	2600
Size of input granules(mm)	<5	<6	<10	<12	<15
Fineness of products(mesh)	12-120	12-120	12-120	12-120	12-120
Grinding power(Kw)	2.2	4	5.5	11	22
Dust absorption(Kw)	0.75	1.5	1.5	1.5	1.5
Weight(Kg)	200	300	450	620	1150
Overall size(mm)	820*400*1350	1100*600*1400	1200*700*1450	1400*800*1650	1650*950*2100



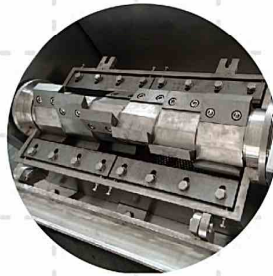
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KODI Seaweed Rough Crusher

Description



The machine has horizontal crushing structure and the whole machine is made of stainless steel. Any raw material, being fed into the grinding chamber through the Feeding Hopper, stroked by the Rotating fixed knives, cut and grind and then automatically goes to the exit by the centrifugal force of revolving object.

The machine is designed according to "GMP" standard, with the characteristics of compact structure, easy washing, and low noise. So it is the most ideal equipment for Seaweed pre-crushing.



Model	80	120	200	400	600
Capacity (kg/h)	10-200	100-500	150-800	200-1000	500-1500
Input Size (mm)	≤50	≤100	≤100	≤100	≤100
Output Size (mm)	0.5-20	0.5-20	0.5-20	0.5-20	0.5-20
Shaft Speed (r/min)	400	400	400	380	380
Machine Power (kw)	1.5	3	5.5	7.5	15
Machine Weight (kg)	150	250	420	480	160
Overall Size L×W×H (mm)	510×450×980	650×700×1200	720×850×1350	1200×1000×1450	1300×1100×1650



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KODI Vibrating Sifter

Application

1. Chemical industry: resin pigment, medicine, grease, paint, palette, etc.
2. Abrasive material and ceramic industry: building sand, mica, alumina, abrasive, refractory material, slurry, etc.
3. Food industry: sugar, salt, carrageenan, gourmet powder, starch, milk powder, yeast powder, pollen, food additive, juice, etc.
4. Paper-making industry: coated slurry, exhaust liquid, paper making liquid and waste water reclamation, etc.
5. Metallurgy and mining industry: quartz sand, ore, titanium oxide, zinc oxide, etc.
6. Mechanical industry: casting sand, powder metallurgy, electromagnetic material and metal powder,



Model	Power	Screen Diameter	Dimension(LxWxH)		Decks Quantity
			(m/m)	(Inches)	
KD -500 - 1 S	3/4 HP	(440 m/m) 17 5/16"	740 x 710 x 800	29 1/8" x27 15/16" x31 1/2"	1
KD -500 - 2 S			770 x 710 x 910	30 5/16" x27 15/16" x35 13/16"	2
KD -500 - 3 S			750 x 750 x 1020	29 1/8" x29 1/8" x31 1/2"	3
KD -600 - 1 S	3/4 HP	(540 m/m) 21 5/16"	770 x 770 x 830	30 5/16" x30 5/16" x41 1/2"	1
KD -600 - 2 S			770 x 770 x 940	30 5/16" x30 5/16" x37"	2
KD -600 - 3 S			770 x 770 x 1130	30 5/16" x30 5/16" x44 1/2"	3
KD -800 - 1 S	1 HP	(740 m/m) 29 1/8"	930 x 1000 x 950	36 5/8" x39 3/8" x37 3/8"	1
KD -800 - 2 S			930 x 1000 x 1090	36 5/8" x39 3/8" x42 15/16"	2
KD -800 - 3 S			1040 x 1040 x 1250	40 7/8" x40 7/8" x49 3/16"	3
KD -1000 - 1 S	2 HP	(910 m/m) 35 13/16"	1150 x 1150 x 1020	45 1/4" x45 1/4" x40 1/8"	1
KD -1000 - 2 S			1170 x 1170 x 1200	46 1/16" x46 1/16" x47 1/4"	2
KD -1000 - 3 S			1190 x 1190 x 1330	46 7/8" x46 7/8" x44 1/2"	3
KD -1200 - 1 S	2 HP	(1110 m/m) 43 11/16"	1310 x 1410 x 1190	51 9/16" x55 1/2" x46 7/8"	1
KD -1200 - 2 S			1310 x 1410 x 1350	51 9/16" x55 1/2" x53 1/8"	2
KD -1200 - 3 S			1350 x 1350 x 1510	46 7/8" x46 7/8" x44 1/2"	3
KD -1500 - 1 S	3 HP	(1410 m/m) 55 1/2"	1610 x 1670 x 1270	63 3/8" x65 3/4" x50"	1
KD -1500 - 2 S			1650 x 1650 x 1470	64 7/8" x64 7/8" x57 7/8"	2
KD -1500 - 3 S			1650 x 1650 x 1700	64 7/8" x64 7/8" x66 7/8"	3