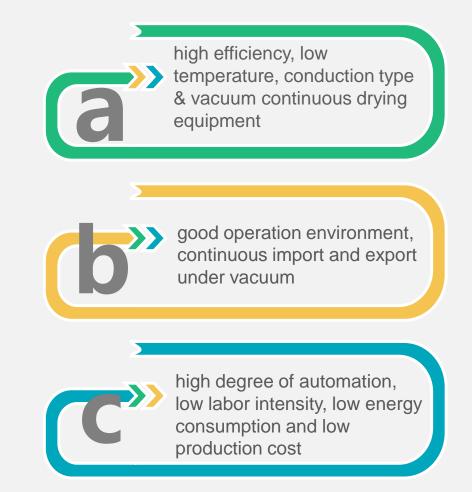


Automated Drying Solutions

Belt Vacuum Continuous Dryer

Overview

Overview of Belt Vacuum Continuous Dryer





Characteristic

Characteristics of Belt Vacuum Continuous Dryer



GMP Standard

meeting the GMP hygienic requirements to realize drying by finishing continuous charging, discharging and grinding under vacuum condition



Easy to Operate

high-degree automation with PLC automatic programing control



Adjustable Parameter

optimizing temperature vacuum degree and speed of the drying processto achieve the best economic benefits



Quality

unchanged thermal sensitivity of materials, recoverability of 95% solvent



No Destruction of Material Property

no destruction of the crystal material, the thermal sensitive material and the oxidation of the material



CIP Cleaning

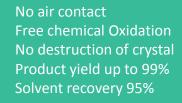
CIP automatic online cleaning system with various cleaning methods

Advantage

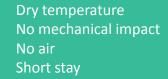
Advantages of Belt Vacuum Continuous Dryer



High Quality



Soft Drying



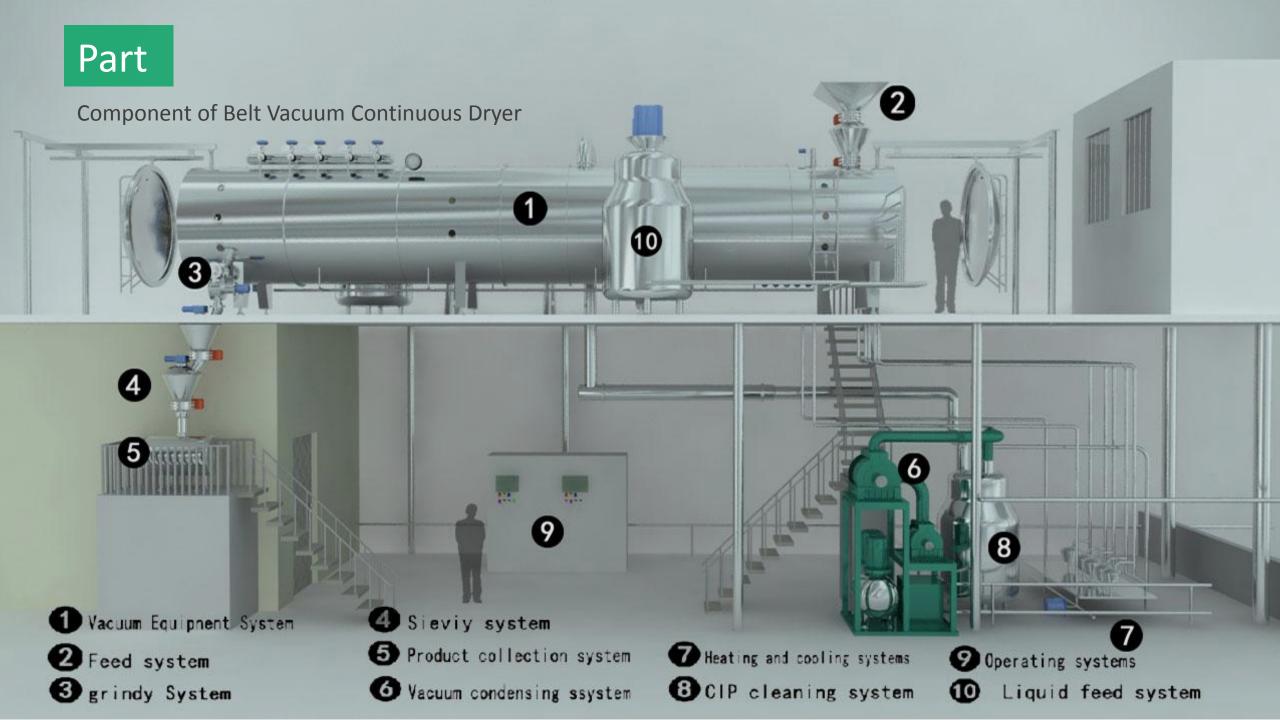
Economic Environment Protection

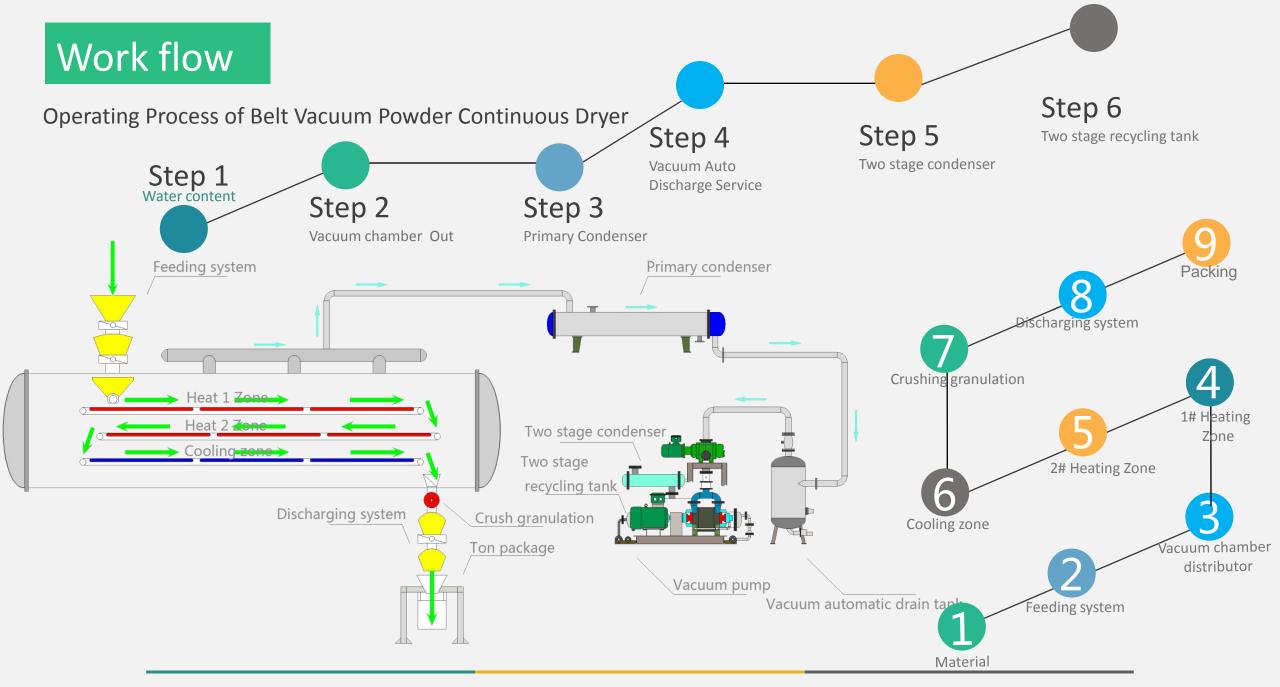
Lowest steam power consumption
No dust, solvent
No pollution
Direct packaging of discharging

Automatic production

PLC automatic programming control Automatic omnidirectional cleaning

Click to learn more





Application

Applicable Scope of Belt Vacuum Powder Continuous Dryer









Food

food additives and chemical raw materials for food

Medicine

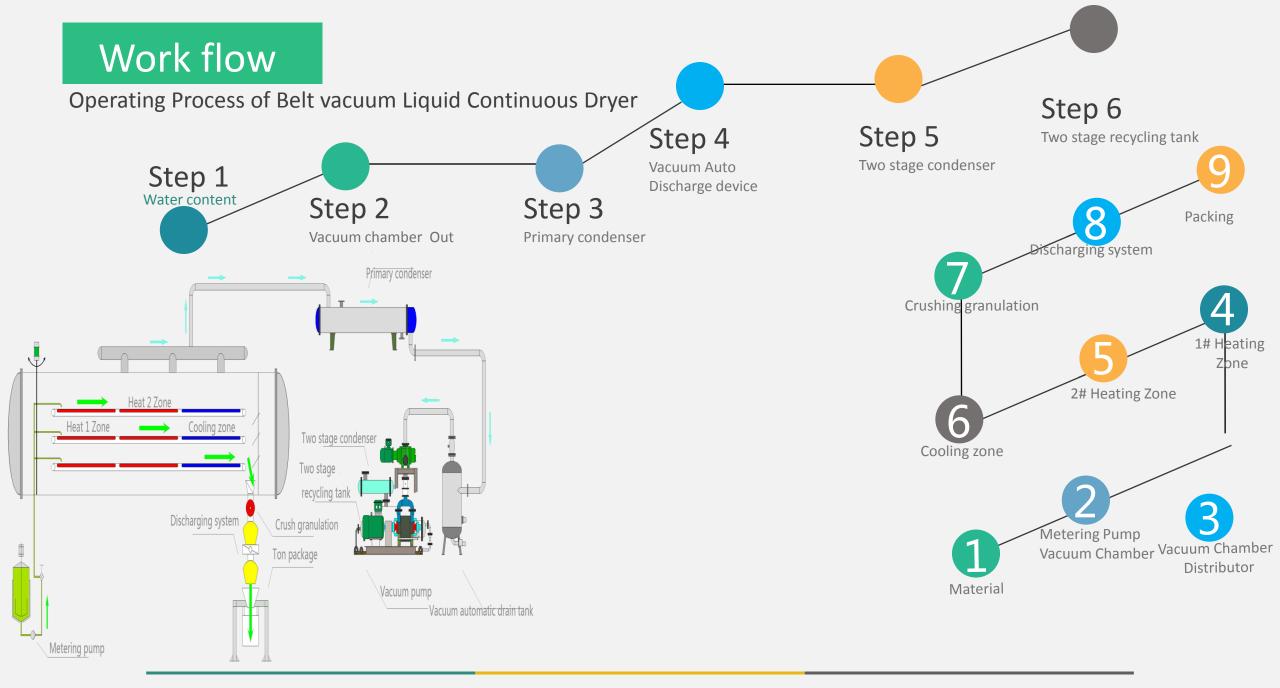
various kinds of powders, crystals, granules etc.

Chemical Engineering

oxidizable, explosive, strongly stimulation and highly toxic materials

And more

products containing various recyclable solvents



Application

Applicable Scope of Belt Vacuum Liquid Continuous Dryer









Instant Coffee

liquid drying of coffee

Fresh Juice

liquid drying of vegetables and fruit

Chinese Traditional Medicine Extract

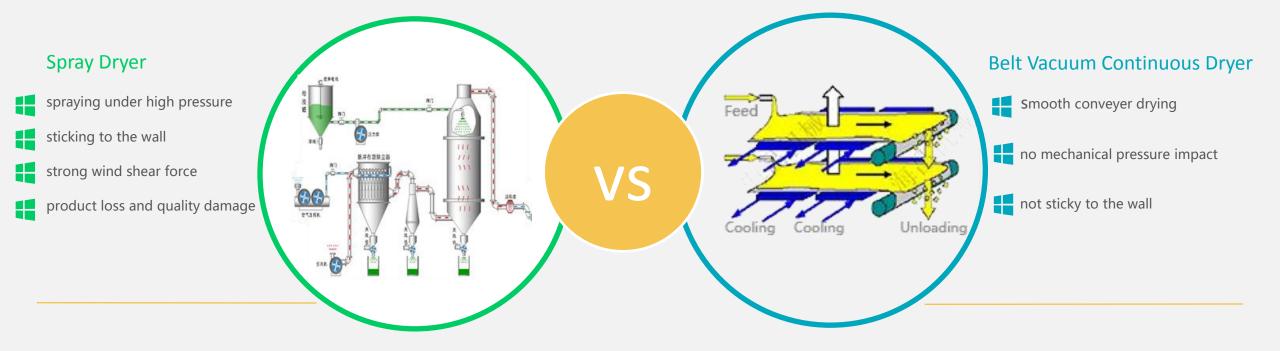
High concentration, high viscosity extract

Plant Extract

Biological preparation plant extract

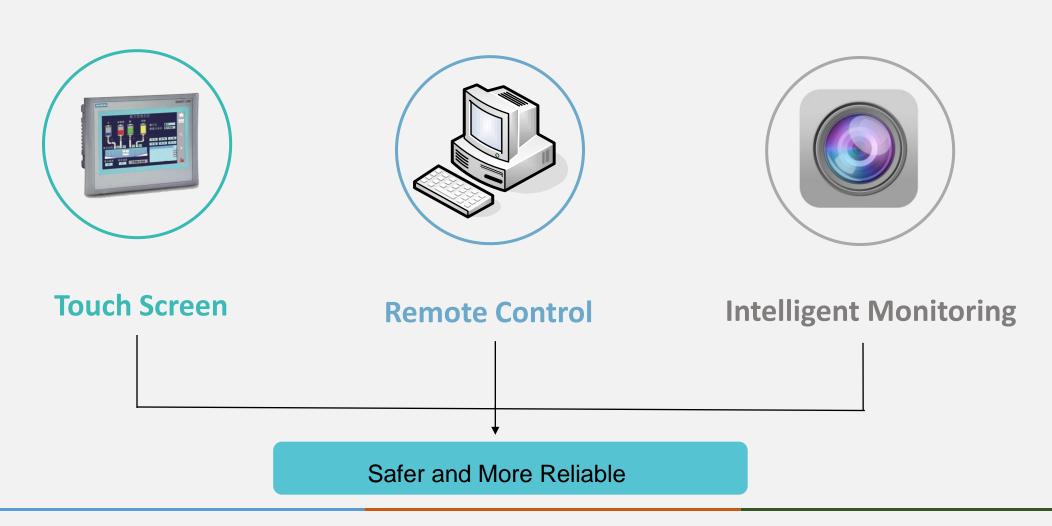
Contrast

Comparison Between Spray Dryer and Belt Vacuum Continuous Dryer



Automation

High Degree of Automation, Continuous and Stable Production of Equipment



Adjustable Parameter

Controlled by Parameters to Ensure Different Requirements

Feed Control

feed crushing control material particle size Feeding time controlled feed quantity Metering pump control feed rate

Vacuum Degree (90-99)Kpa

controling the vacuum degree in the warehouse to ensure the material moisture

Fabric Thickness (3-30mm)

adjustable height of material and material thickness

Water≤1-4%

Material

Particle Size

Feed Quantity

Time Stay

Moisture Content of the material charged

Adjustable Temperature

Fabric Thickness

Crushing speed

Conveyer Belt Speed(0-50Hz)

adjustable speed and thickness of each conveyer belt

Heating Temperature (40-180)℃

adjustable temperature of each layer, heated gradient and bottom cooling

Crush

adjustable grinding speed, controlled uniform size of the particles

Selection

Selection of Belt Vacuum Continuous Dryer for Powder

HCF Belt Vacuum Continuous Dryer										
Basic Parameters/Model	HCF6.5-3	HCF15-3	HCF30-5	HCF50-5	HCF80-5	HC100-7	HCF120-7	HCF160-7	HCF200-11	HCF220-11
Heating Area(M²)	3	6	20	35	70	100	135	160	200	220
Water Evaporation Capacity(kg/h)	5~10	10~20	25~35	40~60	70~90	90~120	110~130	150~180	180~210	210~230
Number of Drying Bed(layer)	3	3	5	5	5	7	7	9	11	11
Drying Temperature Range(℃)	40~180									
Heating and Cooling Zone	2 Heating Zone		4 Heating Zone		6 Heating Zone		8 Heating Zone		10 Heating Zone	
	Coolin	Cooling Zone		Cooling Zone		Cooling Zone		Cooling Zone		g Zone
Moisture Content of the Material Charged (%)	20~30									
Moisture Content of the Dried	≤ 1~4									
Charged (%)	≈ 1′~4									
Discharging Form	Screwing grinding and sieving (20∼200 meshes) with adjustable discharging									
Heating Media	Superheated water, vapor, conduction oil									
Equipment Dimensions(mm)	6500x1200	6500x1900	9500x1900x	12000x2200	12000x2600	12500x2600	17500x260	17500x300	17500x3200	19500x3200
	x2200	x2500	2500	x2800	x3000	x3000	0x3000	0x3000	x3200	x3200
Tatal installed power(kw)	18	24	30	34	36	40	45	48	50	58
Operating Pressure of the cleaning system(MPa)	0.5—1.0									
Yield of Dried Product(kg/h)	30~60	60~100	100~150	150~220	200~300	250~350	300~400	350~450	400~600	500~800
	1.The yield is calculated based on70%content at 90℃ drying temperature with dry power containing about ≤4% moisture. In									
Notes	case the dried liquid is water, specific gravity of the dry power is determined to be 1. The yield will be larger if the drid liquid is									
	solvent.									
	2. All techincal parameters are for reference only depending on the materical conditions, and our company has the right to									
	change them without further notice.									
	change then	Without ful	ther notice.							

Selection

Selection of Belt Vacuum Continuous Dryer for Liquid

HCY Belt Vacuum Continuous Dryer											
Basic Parameters/Model	НСҮЗ-2	НСҮ6-3	HCY20-4	HACY35-5	HCY70-6	HCY100-7	HCY135-8	HCY160-9	HCY200-10		
Heating Area(M²)	3	6	20	35	70	100	135	160	200		
Cooling Area(M²)	1.5	2.5	3.5	10	15	20	27	30	35		
Water Evaporation Capacity(kg/h)	3~5	5~10	15~30	30~45	55~80	90~110	120~150	150~180	180~220		
Number of Drying Bed(layer)	2	3	4	5	6	7	8	9	10		
Drying Temperature Range(℃)	40~180										
Heating and Cooling Zone	2 Heating Zone		3 Heating Zone		4 Heating Zone		5 Heating Zone				
	Coolin	g Zone	Cooling Zone		Cooling Zone		Cooling Zone				
Moisture Content of the Material	20~30										
Charged (%)											
Moisture Content of the Dried	≤ ₁ ~4										
Charged (%)											
Discharging Form	Screwing grinding and sieving (20 \sim 200 meshes)with adjustable discharging										
Heating Media	Superheated water, vapor, conduction oil										
Equipment Dimensions(mm)	6500×1900×	7000×2000×	11000×2200×	12500×2200×	12500×2400×	17000×2600×	17500×2800×	18000×3200	18500×3200×		
	2500	2500	2800	2800	2800	3000	3200	×3200	3500		
Tatal installed power(kw)	20	30	35	39	45	50	55	60	67		
Operating Pressure of the	0.5—1.0										
cleaning system(MPa)					0.5 1.0						
Yield of Dried Product(kg/h)	3~8	8~15	15~30	30~50	50~80	90~120	120~150	150~180	180~220		
	①The yield is calculated based on 70% content at 90℃ drying temperature with dry power containing about ≤4%										
Notes	moisture, In case the dried liquid is water, specific gravity of the dry power is determined to be 1, The yield will be larger										
	if thye dried liquid is solvent .										
	②All technical parameters are for reference only depending on the material conditions, and our company has the right to										
	change them without further notice										



















Continuous Dryer





Continuous Dryer







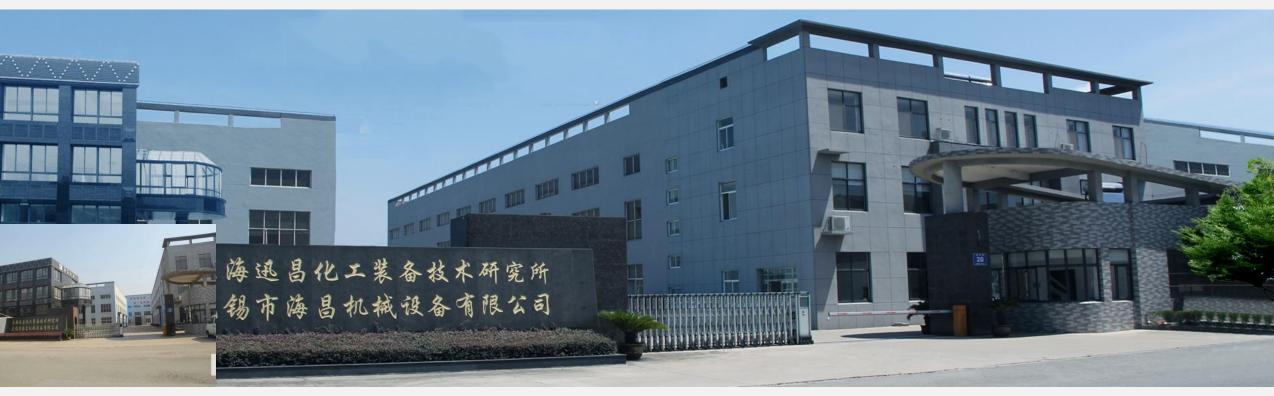






About Us

Wuxi Haichang Machinery Co., Ltd.



Wuxi Haichang Machinery Co., Ltd. is an enterprise specialized in manufacturing drying, crystallizing and granulating &tableting equipment for such industries as pharmacy, food, chemical engineering and and biochemistry.

Our Products

National Leading Automated Drying Solution Supplier









Spherical Dryer

Belt Vacuum Powder Continuous Dryer

Belt Vacuum Liquid Continuous Dryer

PTFE Lining

Customer

a dilli

Part of Our Clients



Thank You!



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