



宝康干燥

BAOKANG DRYING

干燥 混合 制粒 粉碎 包衣 浓缩
Dryer Mixer Granulating Crushing Coating Enrichment



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常州市宝康干燥机械有限公司
CHANGZHOU SHI BAOKANG DRYING MACHINERY CO.,LTD.

>> Welcome to Baokang

走进宝康 | 辉煌历程 铸就梦想 EXCELLENT HISTORY & REALIZE DREAM

常州市宝康干燥机械有限公司是从事干燥设备和制药机械的研究、开发及制造的专业性厂家，是目前国内生产干燥设备品种较多、规格较全的企业。

我公司吸收国内外的先进技术与经验,严格按照相关要求设计、开发、生产、安装和服务于一体，同时严格贯彻质量方针，确保了产品质量。在干燥设备的开发、研究中不断地创新及改造，设计制造了一系列工艺先进且节能的产品。并根据市场的需要研制开发了几十种干燥、制粒、混合、除尘系列，产品广泛适用于制药、化工、食品、轻工等行业工业原料或产品的干燥除湿，深受用户好评。公司备有多种试验样机，欢迎客户带料试验和考察。

我公司座落在风景秀丽的江南水乡、工业明星城市一常州，地处沪、宁经济开发带腹地，气候宜人，交通便捷。热忱欢迎新老客户、国内外各界朋友莅临指导，携手共进，共创未来！

Changzhou Baokang Drying Machinery Co., Ltd. is a research, development and manufacturing in the drying equipment, pharmaceutical machinery of professional manufacturers, is the current domestic production of more varieties and specifications, drying equipment than the whole enterprise.

Our company absorbing domestic and foreign advanced technology and experience, in strict accordance with the relevant requirements of the design, development, production, installation and service in one, and strictly implement the quality policy, to ensure product quality. In the development of drying equipment, research and innovation in constant transformation, a series of advanced technology and energy-saving products design and manufacture. And developed dozens of drying, granulating, mixing, dust series according to the needs of the market, the drying products widely used in pharmaceutical, chemical, food, light industry and other industrial raw materials or products, well received by users. The company has prepared a variety of experimental prototype, welcome customers with materials testing and inspection.

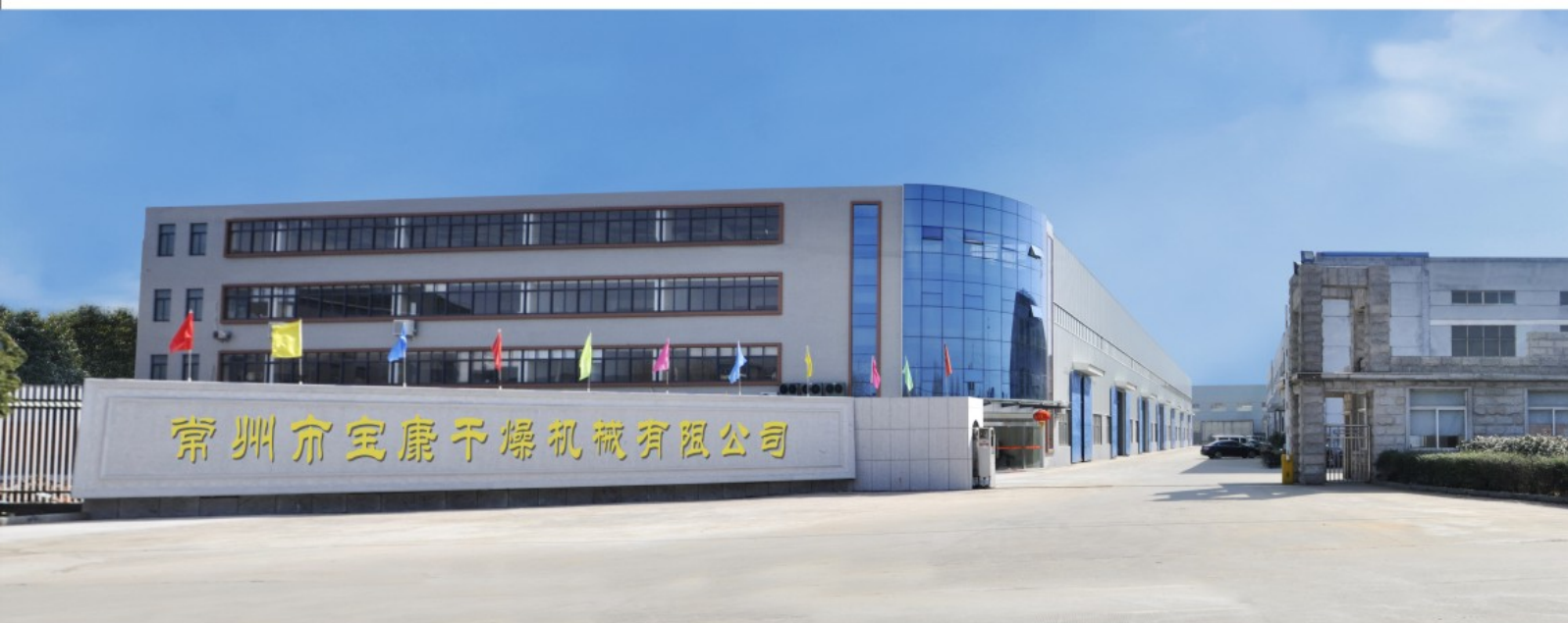
Our company is located in the beautiful scenery of Jiangnan Water Village, a Changzhou Star Industrial City, is located in Shanghai, Ning Economic Development Zone, a pleasant climate, convenient transportation. Warmly welcome new and old customers, domestic and foreign friends from all walks of life to visit and give guidance, work together, create a better future!





































辉煌历程 铸就梦想



EXCELLENT HISTORY
REALIZE DREAM



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CT、CT-C系列热风循环烘箱

CT、CT-C Series Hot Air Circulating Drying Oven

概述 Descriptions

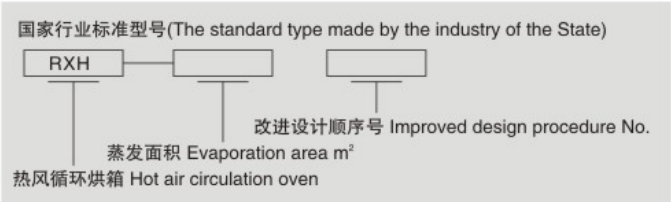
CT-C型系列热风循环烘箱配用低噪音耐高温轴流风机和自动控温系统，整个循环系统全封闭，使烘箱的热效率从传统的烘房3~7%提高到目前的35~45%，最高热效率可达50%。CT-C型热风循环烘箱的设计成功，使我国的热风循环烘箱达到了国内外先进水平。为我国节约了大量能源，提高了企业的经济效益。1990年由国家医药管理局发布了行业标准，统一型号为RXH。

CT-C series hot air circulation drying oven uses a low noise and high temperature proof axial flow blower and an automatic temperature control system. The whole circulation system is the fully enclosed to make that the heat efficiency of the drying oven increases from 3~7% of the traditional drying oven to 35~45% of the present one. The highest heat efficiency can reach 50%. The successful design of CT-C hot air circulation drying oven makes that the hot air circulation drying oven in our country catch the advanced level both at home and abroad. In order to save a large quantity of the energy in out country, in order to enhance the economic results of the enterprises, in 1990, the medicine management bureau of the State issued the industry standard and the uniform type is RXH.



说明 Relevant explanation

- 1、热源有：蒸汽、导热油、电加热管、远红外管等，供用户选择。
- 2、蒸汽加热：50℃~130℃，最高140℃。
- 3、用电、远红外温度：350℃。
- 4、备有自控系统和电脑控制系统供用户选择。
- 5、常用蒸汽压力0.2~0.8MPa。
- 6、配用电加热按I型计算15kW，实用5~8kW/h。
- 7、特殊要求在订货时注明。
- 8、非标烘箱按生产工艺参数进行特别设计制造。
- 9、使用温度大于140℃或小于60℃，要在订货时注明。
- 10、本厂出厂烘车，烘盘尺寸统一，可以互换。
- 11、烘盘尺寸：460×640×45mm。



- 1.The heat source can be steam, heat conductive oil,electricity or far infrared. Customers can select one of them in accordance with practical conditions.
- 2.Temperature for steam:50℃~130℃.
- 3.Temperature for electricity or far infrared:350℃.
- 4.There are automatic and computer control system for customers to choose.
- 5.The normal steam pressure:0.2~0.8MPa.
- 6.Power for electricity heat source will be 15KW calculated as Model I. Practical power to be used will be 5~8kw/h.
- 7.If any special requirements, please indicate it when order.
- 8.Parameters for non-standard ovens shall be discussed separately according to different conditions.
- 9.If the operating temperature is higher than 14℃ or lower then 60℃, please indicate it when order.
- 10.The drying trolleys and trays are of a standard size and can be exchanged with one another.
- 11.The size of drying tray:460×40×45mm.

CT、CT-C系列热风循环烘箱

CT、CT-C Series Hot Air Circulating Drying Oven



特点 Features

- 大部分热风在箱内循环，热效率高，节约能源。
- 利用强制通风作用，箱内设有可调式分风板，物料干燥均匀。热源可采用蒸汽、导热油、电、远红外，选择广泛。
- 整机噪音小，运转平稳。温度自控，安装维修方便。
- 适用范围广，可干燥各种物料、是通用干燥设备。

- Most of hot air is circled inside the oven. The heat efficiency is high and the energy source can be saving.
- Using enhanced ventilation and adjustable air separating boards. It can make materials dried uniformly. The heat source can be steam, heat conductive oil, electricity or far infrared.
- The machine makes little noise and can be operated stably. The temperature can be controlled automatically and the installation and maintenance are all very convenient.
- With wide scope of application, it is suitable for drying varieties of materials. So it is a current type of drying equipment.

应用 Applications

热风循环烘箱适用于制药、化工、食品、农副产品、水产品、轻工、重工等行业物料及产品的加热固化、干燥脱水。如原料药、中药、中药饮片、浸膏、粉剂、颗粒、冲剂、水丸、包装瓶、颜料、染料、脱水蔬菜、瓜果干、香肠、塑料树脂、电器元件、烘漆等。

It is suitable for heating and solidificating, drying and dehydrating of raw materials in pharmaceutical industry,chemical industry, foodstuff industry, agricultural and sideline products, aquatic products, light industry and heavy industry such as raw material medicine,Chinese traditional medicines, tablet of drink, immersed electuary, powder, granule, packing bottle, pigment, dyestuff,dehydrated vegetables, dried fruit and melons, banger, plastic resin, electric elements, drying varnish and so on.

技术参数 Technical parameters

行业标准型号 Model of industrial standard	技术参数 Technical parameter 型号规格 Model specification	每次干燥量 Dry amount each time (kg)	配用功率 Equipped power (kW)	耗用蒸汽 Consumption of steam (kg/h)	散热面积 Area of radiation (m ²)	风量 Amount of air (m ³ /h)	上下温差 temperature difference between up and low(℃)	配用烘盘 Amount of drying tray to be equipped	外型尺寸 Overall dimensions 宽×深×高 W×D×H(mm)	配套烘车 Equipped drying trolley
RXH-14-B	CT-I	100	1.1	20	20	3400	±2	48	2430×1200×2375	2
RXH-27-B	CT-II	200	1.1	40	40	5200	±2	96	2430×2200×2480	4
RXH-41-B	CT-III	300	2.2	60	80	9800	±2	144	3430×2200×2620	6
RXH-54-B	CT-IV	400	2.2	80	100	9800	±2	192	4460×2200×2620	8
RXH-5-C	CT-C-O	25	0.55	5	5	3450	0	16	1280×1100×1750	0
RXH-7-C	CT-C-IA	50	0.55	10	10	3450	±2	24	1400×1200×2000	1
RXH-14-C	CT-C-I	100	0.55	18	20	3450	±2	48	2300×1200×2000	2
RXH-27-C	CT-C-II	200	1.1	36	40	6900	±2	96	2300×2200×2000	4
RXH-27A-C	CT-C-IIA	200	1.1	36	40	6900	±2	96	4460×1200×2290	4
RXH-41-C	CT-C-III	300	1.65	54	80	10350	±2	144	2300×3200×2000	6
RXH-42A-C	CT-C-IIIA	300	1.65	54	80	10350	±2	144	3430×2200×2000	6
RXH-54-B	CT-C-IV	400	2.2	72	100	13800	±2	192	4460×2200×2290	8
RXH-25-A	高效高温远红外灭菌烘箱 功率配套按温度要求进行 High effect and high temperature far infrared sterilization oven The power will be equipped in accordance with the requirements of temperature.								1200×1000×1690	1

注：材质有碳钢、铝合金、不锈钢；物料最终含水量<1%
Note:The material will be carbon steel, aluminum alloy or stainless. The final moisture of raw material(damp)will be less than 1%.

烘箱配件 Fittings of oven



一次成型打孔盘
Once shaping punched plate



一次成型压制盘
Once shaping pressed plate



手工井字网盘
Manual,ulti-square mesh plate



定型烘车
Shaping Baking Cart

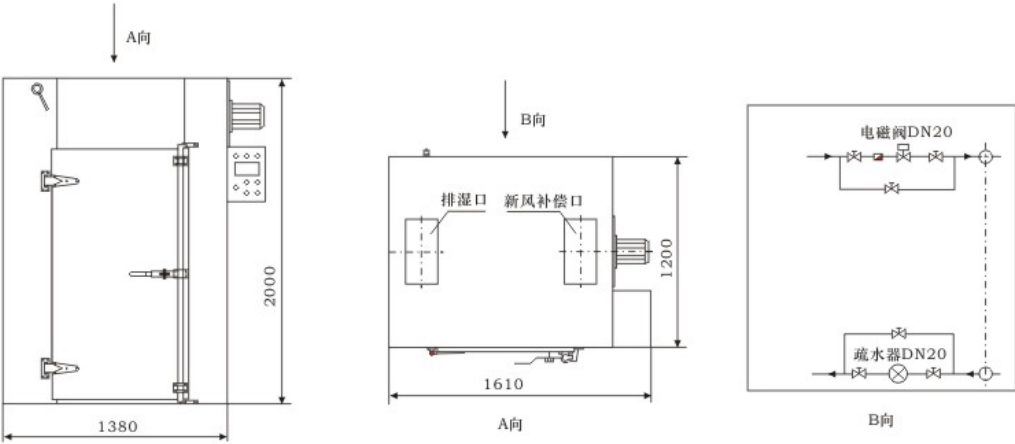


轴流风机 Shaft fan

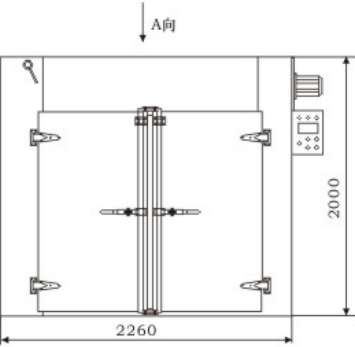
CT、CT-C系列热风循环烘箱

CT、CT-C Series Hot Air Circulating Drying Oven

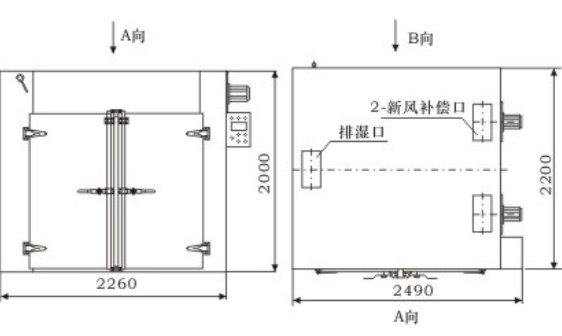
CT-C-O 型烘箱示意图 Sketch of model CT-C-O oven



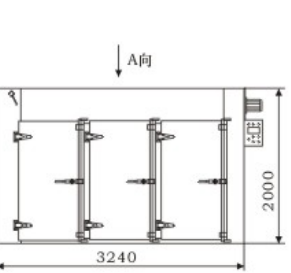
CT-C-I



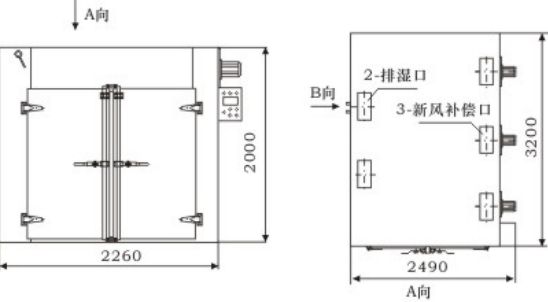
CT-C-II



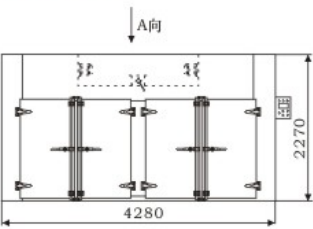
CT-C-III



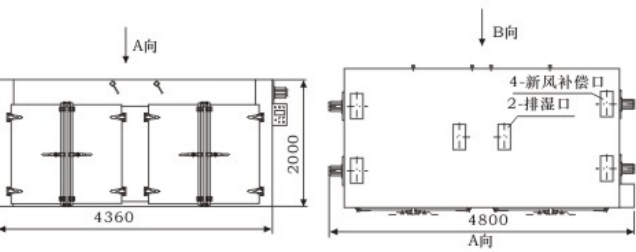
CT-C-III A



CT-C-IV



CT-C-IV A



GM系列干热灭菌箱

Model GM Series Dry Heat Aseptic Oven



概述 Descriptions

在制药、医疗行业“GMP”管理中，对药品及与药品接触的器具进行灭菌、消除热源的要求将越来越高。

本公司积累了长期设计、制造各种电热灭菌箱的经验，吸收消化了国外同类产品的优点，并结合我国国情，精心设计、开发了GM100系列干热灭菌(除热源)柜(装置)。该装置符合FDA、GMP及US联邦标准209E的要求，为国内制药行业GMP改造、FDA论证提供了可信的帮助。

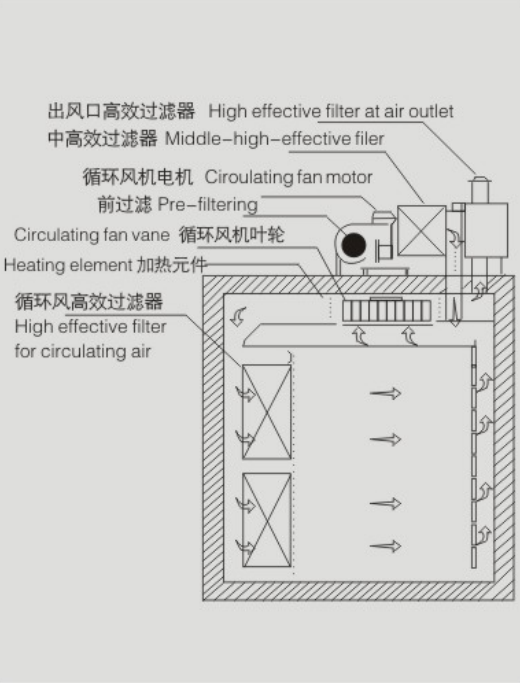
In "GMP" management in pharmaceutical and medical industries, The aseptic and eliminating source demand in medicines and their contact utensils will be higher and higher. The company has painstakingly designed and carefully developed GM100 series dry heat aseptic (eliminating heat source) oven (device) on the basis of long accumulation of practical experiences in designing and making various electric heating aseptic oven, digestion and absorption of advantages of overseas similar products and combination of our national condition. This device is in conformity with requirement of FDA, GMP and 209E, US Federal Standard, thus providing believable helps for the pharmaceutical industry at home in GMP reform and FDA proofs.



特点 Features

- 以电能为热源(干热),可长期在250温度下灭菌,为消除热源提供了可靠的保证。
- 工作温度由程序设计或(根据要求)采用PLC电脑控制,对内部两点温度自动记录。
- 进出风口装有高效空气过滤器,防止了外界对内部的污染。
- 内部循环热风经高温高效空气过滤器过滤,保证了进入有效空间的热风达到100级洁净要求。
- 位于二个不同洁净区的双扇门受电气或PLC电脑控制,保证了各洁净区之间的隔离,防止了由于错误操作而引起的不符合GMP要求的事故发生。
- 本装置的设计符合我国98版GMP规范。全部材料采用进口不锈钢制作,氩弧焊接。内部无死角、无锐角。外壁表面钝化成亚光,内壁表面精密抛光。

- To take electric energy as heat source (dry heat), it may long aseptize under the temperature of 250°C, thus providing a reliable guarantee for elimination of heat source.
- Working temperature is controlled by designed program of PLC (programmable logic controller) (according to request) and temperature at two internal points will be recorded automatically.
- High effective air filters are mounted at both air inlet and outlet to prevent the outside from polluting the inside of oven.
- Internal circulating hot air is filtered through high temperature and high effective air filter, thus guaranteeing that the hot air entering into effective space will reach grade 100 in clean requirement.
- Double gates at two different clean areas are controlled by electrical appliance of PLC computer, this ensuring the isolating between various clean areas and preventing accidents occurring as disoperation results in unsatisfaction of GMP requirements.
- This device meets our GMP specification, Version 98 in design. Its parts & components are all made up of imported stainless steel and welded using argon arc welding. No dead corners and sharp edges exist in its interior. The surface of its external wall should be passivated as low gloss and the surface of its internal wall will be polished accurately.
- GMP verification interface should be retained on the device.



技术参数 Technical parameters

型号 Model	工作温度 working Temperature (°C)	外型尺寸 working Temperature (mm)			有效空间 effective space (mm)			净风风量 (在250°C) clean air capacity of fan (at 250°C)(m³/h)	净风风压 (在250°C) clean air pressure of fan (at 250°C)(m³/h)	层流净化等级 liminar purifying grade (级)	加热功率 heating power (kw)	重量 weight (kg)	温度控制 偏差 contrlled temp error (级)	各点温差 temp difference between points (级)
		宽	深	高	宽	深	高							
GM-I	常温-250 constant temperature (°C)	1950	1300	2000	800	850	1100	1000	700	100	13.5	800	≤2°C	≤3°C
GM-II		1950	2150	2000	800	1700	1100	3000			24	1200		

SMH系列隧道灭菌烘箱
SMH Series Tunnel Aseptic Drying Oven



应用 Applications

本系列隧道式灭菌烘箱，是我厂根据国内技术资料结合用户经验进行设计改造的一种新颖高效烘箱。该设备结构紧凑，造型美观，烘箱内壁及输送链条等全部采用1Cr18Ni9Ti优质不锈钢制造。采用石英管辐射加热，或者根据用户需要，采取煤气加热，对西林瓶、安瓿瓶、化妆品用瓶、制药玻璃制品瓶和中药及其它物料连续烘干灭菌。工作场所整洁，生产效率高，是目前我国制药厂、中药厂、饮料厂、日用化工厂必不可少的设备之一。

The series channel sterilization oven is a new style and high effect oven designed and recounted on the basis of absorbing domestic and abroad data and combining customers experience. Its construction are compact and beauty in shape. Its inner wall and transmission chain all are made of 1Cr18Ni9Ti qualified stainless steel. It adapts quartz tube to heat through radiation. Mean while it can also adapt gas to heat accordance with the requirements of customers. It can sterilize continuously to ampoule bottle, cosmetic bottle, glassware used for pharmaceutical industry, traditional Chinese medicines and so on. its productive field is clean and tidy and its productive efficiency is high. Now it is a indispensable equipment in pharmaceutical factory, traditional Chinese medicine factory, drinking factory, drinking factory and chemical industry concerned with products for daily use.

技术参数 Technical parameters

名称 Name 型号 Model 参数 Parameter	加热功率 heat power (kw)	温度范围 Scope of temperature(℃)	长×宽×高 L×W×H m	隧道宽度 width of channel(m)	传动速度 driving speed (m/sec)	班产 Output per shift (万支) (ten thousand pieces)	重量 Weight (kg)
SMH-3M	18	50-350	3×0.75×1.6	0.38	0.1~1	5~15	500
SMH-4M	18	50-350	4×0.75×1.6	0.38	0.1~1	5~20	700
SMH-5M	24	50-350	5×0.75×1.6	0.38	0.1~1	10~25	900
SMH-6M	30	50-350	6×0.75×1.6	0.38	0.1~1	15~35	1100
黄元瓶烘箱4M Oven for yellow round bottle,4m	24	50-350	4×0.90×1.7		0.1~1		

YZG/FZG系列(圆形/方形)真空干燥机
YZG/FZG Series (Round/Square)Vacuum Dryer



原理 Principle

所谓真空干燥，就是将干燥物料处在真空条件下，进行加热干燥，如果利用真空泵进行抽气抽湿，则加快了干燥速率。
注：如采用冷凝器，物料中的溶剂可通过冷凝器加以回收；如采用SK系列水环真空泵，可不用冷凝器，节省能源投资。

It is well known that vacuum drying is to put raw material under the state of vacuum for heating and drying. If use vacuum to pump air and humidity out, the dry speed will be faster.
Note: if use condenser, the solvent in raw material can be recovered. If the solvent is water, condenser might be canceled and the investment and every could be saved.

应用 Applications

适用于在高温下易分解，聚合和变质的热敏性物料的低温干燥；被广泛地采用在制药、化工、食品、电子等行业。
It is suitable for drying heat sensitive raw materials that can decompose or polymerize or deteriorate at high temperature. It is widely used in pharmaceutical, chemical, foodstuff and electronic industries.

技术参数 Technical parameters

名称 name 规格 specification	YZG-600	YZG-800	YZG-1000	YZG-1400	FZG-15
箱内尺寸 inside size of chamber	Φ 600 × 976	Φ 800 × 1274	Φ 1000 × 1572	Φ 1400 × 2054	1500 × 1220 × 1400
箱外尺寸 exterior size of chamber	1153 × 810 × 1020	1700 × 1045 × 1335	1740 × 1226 × 1358	2386 × 1657 × 1800	2060 × 1513 × 1924
烘架层数 layers of baking shelf	4	4	6	8	8
层间距离 interval of baking shelf	81	82	102	102	122
烘盘尺寸 size of baking disk	310 × 600 × 45	460 × 640 × 45	460 × 640 × 45	460 × 640 × 45	460 × 640 × 45
烘盘数 number of baking disk	4	8	12	32	32
烘架管内允压 permitted pressure inside the pipe of baking shelf (Mpa)	≤ 0.784	≤ 0.784	≤ 0.784	≤ 0.784	≤ 0.784
箱内温度 temperature inside chamber (℃)	30-150	30-150	30-150	30-150	30-150
箱内空载真空度 vacuum level inside chamber with out load (Mpa)	-0.1				
在30托真空，加热温度110℃时，水的气化率(kg/m ² ·h) when vacuum is 30 torr and the heating temperature is 110℃, vaporized rate of water	7.2				
不用冷凝器时，真空泵型号、功率 type and power of vacuum pump without condensate, (kw)	2X-15A 2KW	2X-30A 3KW	2X-30A 3KW	2X-70A 5.5kW	2X-70A 5.5kW
不用冷凝器时，真空泵型号、功率 type and power of vacuum pump without condensate, (kw)	SZ-0.5 1.5KW	SZ-1 2.2KW	SZ-1 2.2KW	SZ-2 4KW	SZ-2 4KW
干燥箱重量 weight of drying chamber (kg)	250	600	800	1400	2100

上述数据，仅供参考，如有特殊要求，本厂提供设计，咨询服务。
The above mentioned data is for reference only. If having special requirements, the factory can provide the service of consultation and design.

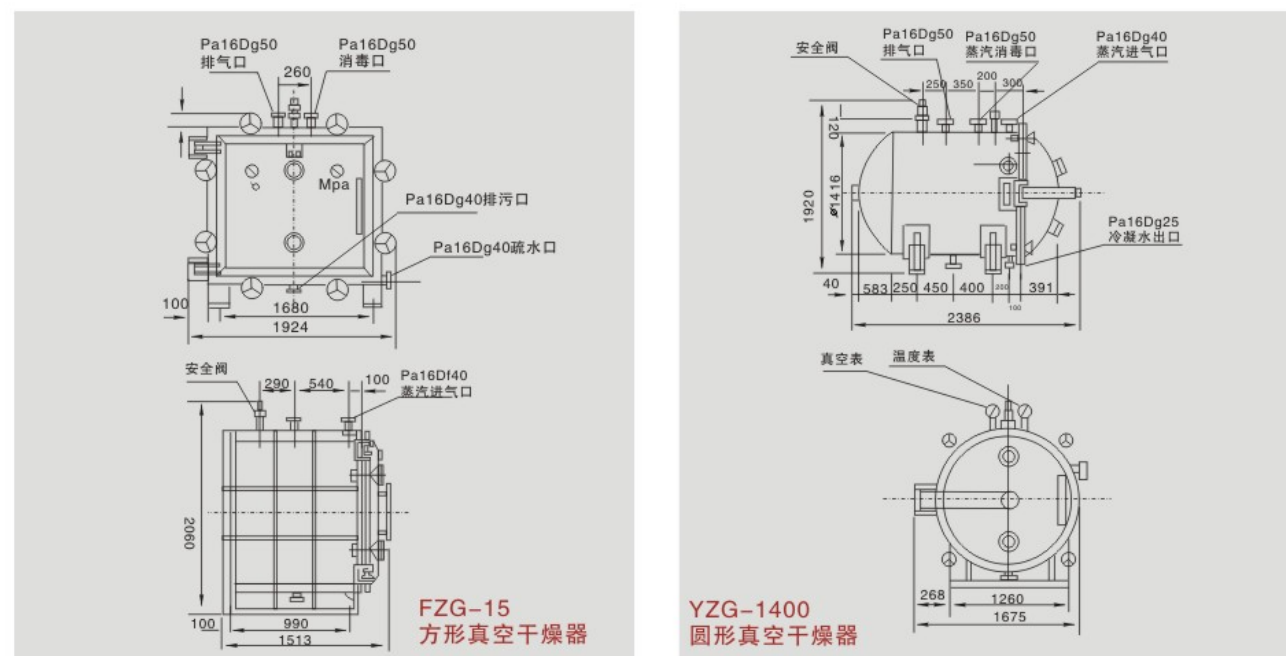
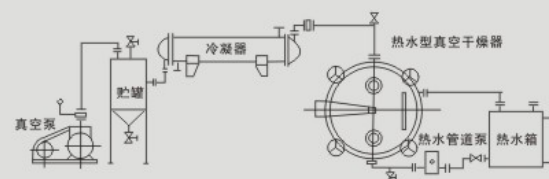
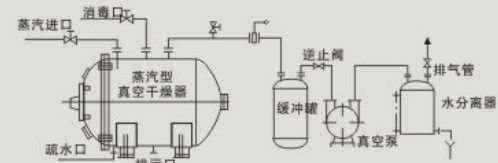
YZG/FZG系列(圆形/方形)真空干燥机

YZG/FZG Series (Round/Square) Vacuum Dryer

■ 特点 Features

- 真空下物料溶液的沸点降低,使蒸发器的传热推动力增大,因此对一定的传热量可以节省蒸发器的传热面积。
- 蒸发操作的热源可采用低压蒸汽或废热蒸汽。
- 蒸发器热损失少。
- 在干燥前可进行消毒处理,干燥过程中无任何不纯物混入,符合GMP要求。
- 属于静态真空干燥器,故干燥物料的形体不会损坏。

- ◇ Under the condition of vacuum, the boiling point of raw material will decrease and make the evaporation efficiency higher. Therefore for a certain amount of heat transfer, the conducting area of dryer can be saved.
- ◇ The heat source for evaporation may be low pressure steam or surplus heat steam.
- ◇ The heat loss is less.
- ◇ Before drying, the treatment of disinfection may be carried out. During the period of drying, there is no impurity material mixed. It is in conformity with the requirement of GMP.
- ◇ It belongs to static dryer. So the shape of raw material to be dried should not be destroyed.

热水加热, 溶剂回收
真空干燥系统图System chart of heat with hot water,
solvent recover and vacuum drying蒸汽加热, 溶剂不回收
真空干燥系统图System chart of heat with steam heat,
not solvent recover and vacuum drying

SZG系列双锥回转真空干燥机

SZG Series Conical Vacuum Dryer



■ 原理 Principle

- 在密闭的夹层中通入热能源(如热水、低压、蒸汽或导热油),热量经内壳传给被干燥物料。
- 在动力驱动下,罐体作缓慢旋转,罐内物料不断地混合,从而达到强化干燥的目的。
- 物料处于真空状态,蒸汽压下降使物料表面的水份(溶剂)达到饱和状态而蒸发了,并由真空泵及时排出回收。物料内部的水份(溶剂)不断的向表面渗透、蒸发、排出,三个过程不断进行,物料在很短时间内达到干燥目的。

- Let heat source (for example, low pressure steam or thermal conduct oil) pass through the sealed jacket. The heat will be transmitted to raw material to be dried through inner shell;
- Under driving of power, the tank is rotated slowly and the raw material inside it is mixed continuously. The purpose of reinforced drying can be realized;
- The raw material exists is under vacuum. The drop of team pressure makes the moisture (solvent) at the surface of raw material become saturation and will evaporate. The solvent will be discharged through vacuum pump and recovered in time. The inner moisture (solvent) of raw material will infiltrate, evaporate and discharge continuously. The three processes are carried out unceasingly and the purpose of drying can be realized within a short time.



■ 概述 Descriptions

SZG双锥真空干燥机是我厂在结合国内同类产品技术所开发新一代干燥装置, SZG双锥真空具备皮带、链条两级弹性联结方式,因而设备运行平稳。特别设计的工装,充分体现了两支轴的良好同心,热媒及真空系统均采用可靠的美国技术的旋转接头。在此基础上,我们开发了SZG-A,它既可无级调速,又能进行恒温控制。

作为专业干燥设备制造厂,我们以每年百余台服务于用户,本厂产品从高温导热油为热媒介质、中温蒸汽及低温热水一应俱全。干燥粘性物料时,本厂将在罐内为您特别设计“抄板”机构或设置滚珠。

SZG Series Conical Vacuum Dryer is a new generation drying device developed by our factory on the basis of combining the technology of similar equipment. It has two connecting ways, i.e. belt or chain. Therefore it is stable in operation. The special design guarantees two shafts realize good concentricity. Heat medium and vacuum system all adapt reliable rotating connector with the technology from USA. On this basis, we also developed SZG-A. It can carry out steeples speed change and constant temperature control.

As a specialized factory in drying industry, we supply hundred sets to the customers every year. As for working medium, it may be thermal oil or steam or hot water. For drying the adhesive raw material, we have designed specially a stirring plate buffer for you.

■ 特点 Features

- 油加热时,采用自动恒温控制,可以干燥生化制品和矿物原料,温度可在20~160℃之间。
- 热效率高,比一般烘箱提高2倍以上。
- 间接加热,物料不会被污染,符合"GMP"要求。设备维修操作简便,易清洗。
- When oil is used to heat, use automatic constant temperature control. It can be used for drying biology products and mine. Its temperature of operation can be adjusted form 20~160℃.
- Compared to ordinal dryer, its heat efficiency will be 2 times higher.
- The heat is indirect. So the raw material can not be polluted. It is in conformity with the requirement of GMP. It is easy in washing and maintenance.

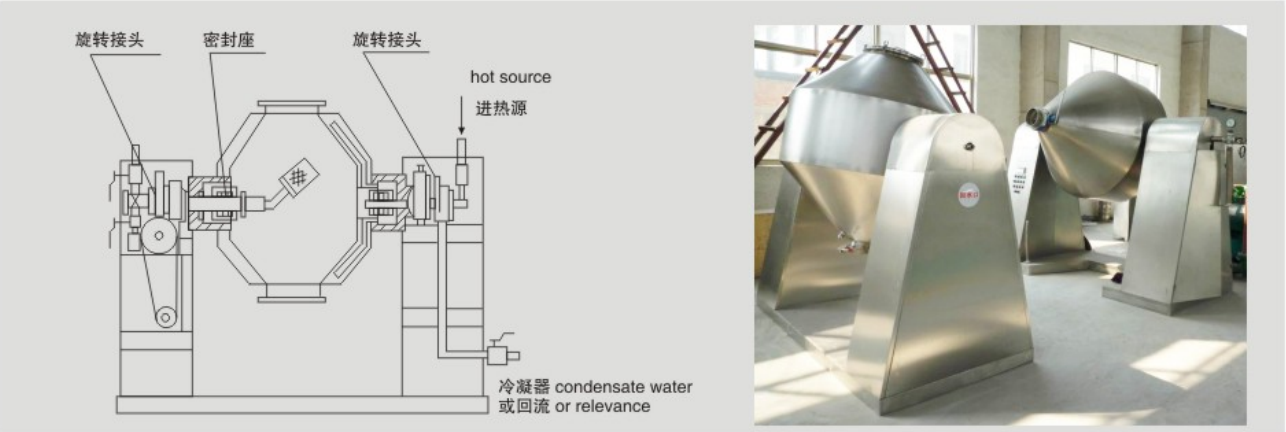
■ 应用 Applications

适用化工、制药、食品等行业的粉状、粒状及纤维状物料的浓缩、混合、干燥及需低温干燥的物料(如生化制品等),更适用于易氧化、易挥发、热敏性、强烈刺激、有毒性物料和不允许破坏结晶体的物料的干燥。

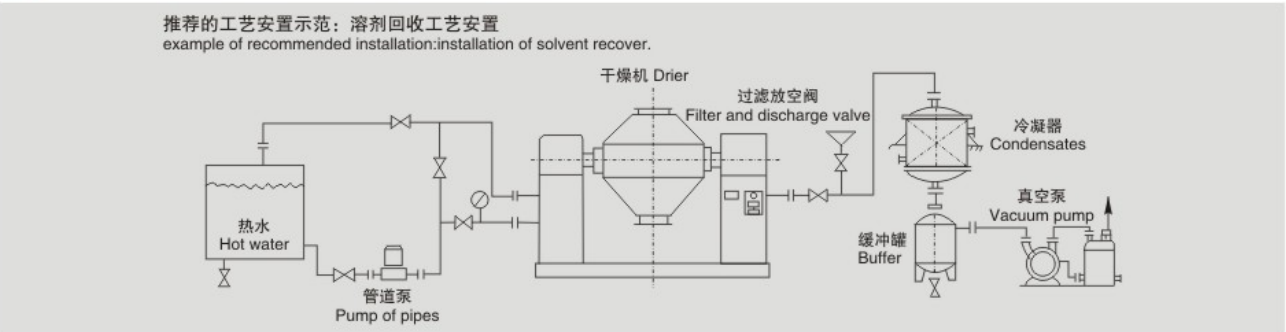
It is suitable for the raw materials that need to concentrate, mixed and dried at low temperature (for example, biochemistry) products in chemical, pharmaceutical and foodstuff industries. Particularly it is suitable for the raw materials that are easy to be oxidized, volatilized and have night heat sensitivity and is toxic and not permitted to destroy its crystal in drying process.

SZG系列双锥回转真空干燥机
SZG Series Conical Vacuum Dryer

结构简图 Sketch of structure



安装示意图 Schmatic of installation



技术参数 Technical parameters

项 目 item	单位	机 型 spec											
名称 name	unit	100	200	350	500	750	1000	1500	2000	3000	4000	5000	
总容积 total volume	L	100	200	350	500	750	1000	1500	2000	3000	4000	5000	
工作容积 working volume	L	50	100	175	250	375	500	750	1000	1500	2000	2500	
加热面积 heating area	m²	1.16	1.5	2	2.63	3.5	4.61	5.58	7.5	9.6	12.1	14.1	
转速 speed	rpm	0-12											
功率 power	kW	0.75	1.1	1.5	2.2	3	4	5.5	7.5	11	15	18.5	
回转高度 rotating height	mm	1810	1910	2090	2195	2500	2665	2915	3055	3530	3800	4180	
整机重量 total weight	Kg	550	700	900	1100	1200	1300	1500	2000	3000	4000	5000	
罐内设计压力 design pressure inside the tank	Mpa	-0.09-0.096											
夹层设计压力 design pressure of jacket	Mpa	0.3											

电机可根据用户要求选配调速电机,转速为0-6rpm



XF系列沸腾干燥机
XF Series Fluidizing Dryer

概述 Descriptions

沸腾干燥, 又称流化床, 它是由空气过滤器、加热器、沸腾床主机、旋风分离器、布袋除尘器、高压离心风机、操作台组成, 由于干燥物料的性质不同, 配套除尘设备时, 可按需要考虑, 可同时选择旋风分离器、布袋除尘器, 也可选择其中一种, 一般来说比重较大的如冲剂及颗粒物料干燥只需选择旋风分离器, 比重较轻的小颗粒状和粉状物料需配套布袋除尘器, 并备有气力送料装置及皮带输送机供选择。

散粒状固体物料由加料器加入流化床干燥器中, 过滤后的洁净空气加热后由鼓风机送入流化床底部经分布板与固体物料接触, 形成流态化达到气固的热质交换。物料干燥后由排料口排出, 废气由沸腾床顶部排出经旋风除尘器组和布袋除尘器回收固体粉料后排空。

蒸汽、电、热风炉均可配用(按用户要求配套)。

它适用于散粒状物料的干燥, 如: 医药药品中的原料药、压片颗粒料、中药冲剂、化工原料中的塑料树脂、柠檬酸和其他粉状、颗粒状物料的干燥除湿, 还用于食品饮料冲剂, 粮食加工、玉米胚芽、饲料等的干燥。物料的粒径最大可达6mm, 最佳为0.5~3mm。



Boiling dryer is also called as fluidized-bed. It consists of air filter, heater, fluidized-bed main machine, feeder, cyclone separator, cloth bag duster, high-pressure centrifuge fan and operation table. Because the properties of raw materials exist difference, when equip the dust removing equipment, it should consider the practical need. It can select cyclone separator and cloth bag duster at the same time or one of them. In general speaking, it needs to select cyclone separator only for raw material that is large in specific gravity and cloth bag duster for powder and small granule raw materials that is light in specific gravity. Meanwhile there is air feeding device and belt conveyor for selection.

Separated granule solid raw material is fed into fluidized-bed drier through feeder. Fresh air through filtering and heating is sent to the bottom of fluidizedbed by fan and contacts with solid raw material on distributing plate. In this way the fluidized state is formed and the heat exchange between air and solid is carried out. The dried raw material is discharged from outlet and wasted gas is exhausted from the top of fluidized-bed where catches solid powder through cyclone separator, cloth bag duster.

Steam, electricity or hot air furnace can be used (it can be supplied as request) It is suitable for drying separated granule such as, raw material of pharmaceutical industry, tablet, tablet of drink of Chinese traditional medicines; plastic resin, citric acid, other powder and granule of chemical industry, powder of drink, corn embryo feed of foodstuff industry and so on. The Max diameter of raw material to be dried will 6 mm and the best diameter will be 0.5~3 mm.



实际使用中的非标设计大型沸腾床 Fluidizing dryers under production on-site

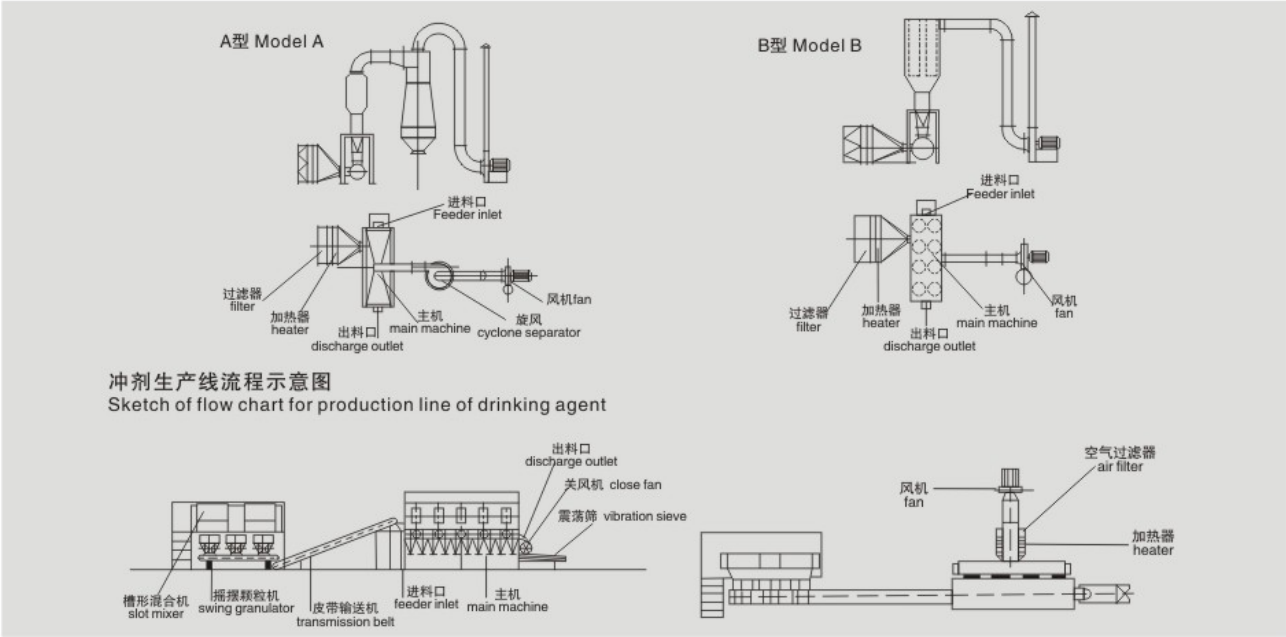
特点 Features

沸腾床干燥机可实行自动化生产, 是连续式干燥设备。干燥速度快, 温度低, 能保证产品质量, 符合药品生产GMP要求。蒸汽、电、热风炉均可配用。

This fluidized bed dryer can achieve automation and continuous drying process. It has a high drying speed and a low temperature and the product quality can be ensured, meeting GMP requirements. The heating resource can be steam, electricity or furnace.

XF系列沸腾干燥机
XF Series Fluidizing Dryer

流程图 Flow chart



技术参数 Technical parameters

型号规格 model and specifications	XF 0.25-1 (原XF10)	XF 0.25-2 (原XF20)	XF 0.25-3 (原XF30)	XF 0.25-6	XF 0.3-2	XF 0.3-4	XF 0.3-6	XF 0.3-8	XF 0.3-10	XF 0.4-4	XF 0.4-6
床层面积 area of bed layer (m ²)	0.25	0.5	1.0	1.5	0.6	1.2	1.8	2.4	3.0	1.6	2.4
干燥能力 drying capacity (kg H ₂ O/h)	10 ~ 15	20 ~ 25	30 ~ 45	52 ~ 75	~ 30	42 ~ 60	63 ~ 90	84 ~ 120	105 ~ 150	56 ~ 80	84 ~ 120
风机功率 Power of fan (kw)	5.5	7.5	15	22	7.5	18.5	30	37	48	30	37
进风温度 temperature of air in (°C)	120 ~ 140	120 ~ 140	120 ~ 140	120 ~ 140	120 ~ 140	120 ~ 140	120 ~ 140	120 ~ 140	120 ~ 140	120 ~ 140	120 ~ 140
物料温度 temperature of air in (°C)	40 ~ 60	40 ~ 60	40 ~ 60	40 ~ 60	40 ~ 60	40 ~ 60	40 ~ 60	40 ~ 60	40 ~ 60	40 ~ 60	40 ~ 60
外形尺寸(主机) overall dimensions (main machine) L(长)×W(宽)×H(高)(m)	1×0.6×3.35	2×0.6×3.35	4×0.6×3.35	6×0.6×3.35	2×0.7×3.4	4×0.7×3.4	6×0.7×3.4	8×0.7×3.4	10×0.7×3.4	4×1×3.58	6×1×3.58
占地面积 occupied area (m ²)	18	25	35	40	25	38	45	56	70	18	56

型号规格 model and specifications	XF 0.4-8	XF 0.4-10	XF 0.4-12	XF 0.5-4 (原XF50)	XF 0.5-6	XF 0.5-8	XF 0.5-10	XF 0.5-12	XF 0.5-14	XF 0.5-16	XF 0.5-18
床层面积 area of bed layer (m ²)	3.2	4.0	4.8	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
干燥能力 drying capacity (kg H ₂ O/h)	112 ~ 160	140 ~ 200	168 ~ 240	70 ~ 100	105 ~ 150	140 ~ 200	175 ~ 250	210 ~ 300	245 ~ 350	280 ~ 400	315 ~ 450
风机功率 Power of fan (kw)	48	70	70	30	48	70	105	140	147	169	197
进风温度 temperature of air in (°C)	120 ~ 140	120 ~ 140	120 ~ 140	120 ~ 140	120 ~ 140	120 ~ 140	120 ~ 140	120 ~ 140	120 ~ 140	120 ~ 140	120 ~ 140
物料温度 temperature of air in (°C)	40 ~ 60	40 ~ 60	40 ~ 60	40 ~ 60	40 ~ 60	40 ~ 60	40 ~ 60	40 ~ 60	40 ~ 60	40 ~ 60	40 ~ 60
外形尺寸(主机) overall dimensions (main machine) L(长)×W(宽)×H(高)(m)	8×1×3.58	10×1×3.58	12×1×3.58	4×1.2×4.1	6×1.2×4.1	8×1.2×4.1	10×1.2×4.1	12×1.2×4.1	14×1.2×4.1	16×1.2×4.1	18×1.2×4.1
占地面积 occupied area (m ²)	74	82	96	50	70	82	100	140	180	225	268

注：一、加料方式有：1.星形加料。2.星形加料式和气加输送并用。3.皮带输送。4.用户自定。二、可实现自动化生产。三、除以上型外，可为用户作特殊设计。
四、根据物料不同，风机功率亦不同。
Note: 1. The feeding way has: (A). Star feeding (B). Combining star feeding and air conveyor (C). Belt conveying (D). decided by customer
2. Automatic production can be realized. 3. Besides the model above mentioned, the special model can also be designed and manufactured as request.
4. According different raw material, the power of fan will be differ.

ZLG系列振动流化床干燥机
ZLG Series Rectilinear Vibrating-Fluidizing Dryer



特点 Features

- 振动源是采用振动电机驱动，运转平稳，维修方便，噪音低、寿命长。
- 流态化匀称，无死空隙和吹穿现象，可以获得均匀的干燥、冷却制品。
- 可调性好，适应面宽。料层厚度和在机内移动速度以及全振幅变更均可实现无级调节。
- 对物料表面损伤小，可用于易碎物料的干燥；物料颗粒不规则时亦不影响工作效果。
- 采用全封闭式结构，有效地防止了物料与空气交叉感染，作业环境清洁。
- 机械效率与热效率高，节能效果好，比一般干燥装置可节能30-60%。
- Adopt vibration motor, it is smooth in running and convenient in maintenance. The noise is low and the service life is long.
- The state of fluidization is uniform and no dead gaps or broken phenomenon so to have dry, cool product.
- It is good in adjustment and wide in the field of application. The thickness of raw material and the speed of raw material to be moved inside the machine and the change of vibration range can be steeples.
- The damage the surface of raw material is small. So it can be used for raw materials that are easily to be broken. If the granule is not normal, the effect of process can not be effected.
- The structure is fully seal, it is effective to prevent from cross pollution of raw materials and the working environment is clean.
- The mechanical and heat are high and its effective of energy saving. Compared to ordinal dryer, 30-60% of energy is saved.

应用 Applications

- ZLG振动流化床干燥机广泛适用于化工、轻工、医药、食品、塑料、粮油、矿渣、制盐、糖等行业的粉料颗粒状物料的干燥、冷却、增湿等行业。
- 医药化工：各种压片颗粒，硼酸、硼砂、苯二酚、苹果酸、马来酸等。
- 食品建材：酒糟、味精、砂糖、食盐、矿渣、豆瓣、种籽等。
- 还可用于物料的冷却、增湿等。

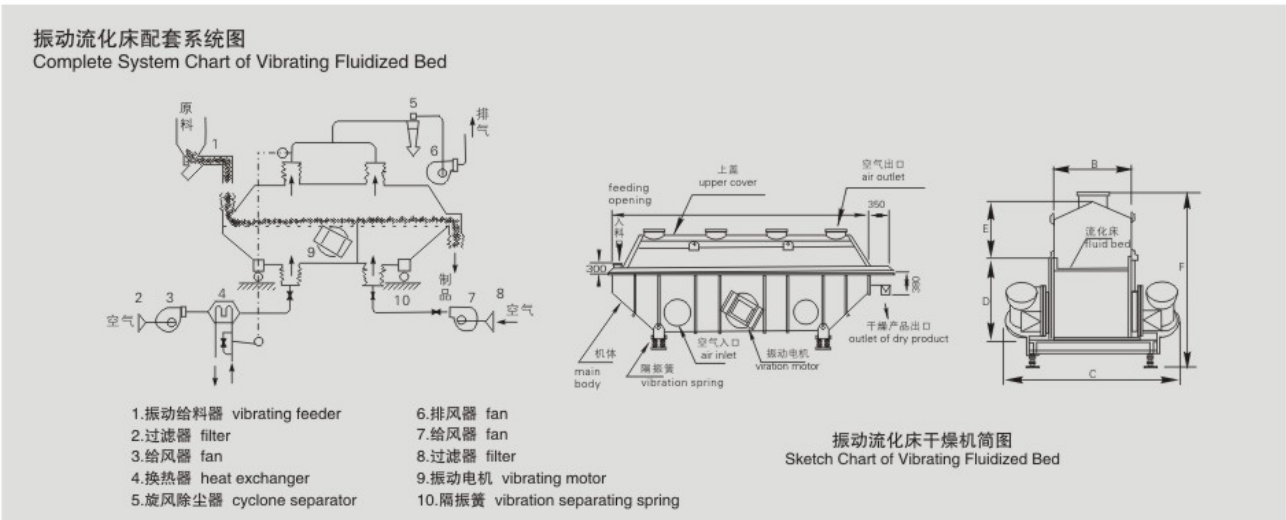
- Pharmaceutical and chemical industries: all kinds of press tablet and granule, boric acid, borax, dihydroxybenzene, malic acid, maleic acid and so on;
- Foodstuff and construction material industries: less, monosodium glutamate, edible sugar, edible salt, mine residue, bean, seeds and so on;
- It can also used for raw materials to add damp or cooling and so on.



ZLG系列振动流化床干燥机

ZLG Series Rectilinear Vibrating-Fluidizing Dryer

结构简图 Sketch of structure



技术参数 Technical parameters

型号 Model	尺寸 Size	A	B	C	D	E	F	重量weight(Kg)
ZLG-3×0.30		3000	300	1350	900	430	1650	1250
ZLG-4.5×0.30		4500	300	1350	900	430	1650	1560
ZLG-4.5×0.45		4500	450	1550	950	430	1700	1670
ZLG-4.5×0.60		4500	600	1650	950	430	1700	1910
ZLG-6×0.45		6000	450	1650	950	430	1700	2100
ZLG-6×0.60		6000	600	1700	1000	500	1700	2410
ZLG-6×0.75		6000	750	1850	1000	600	1850	2340
ZLG-6×0.9		6000	900	2000	1000	600	1850	3160
ZLG-7.5×0.6		7500	600	1850	1000	600	1850	3200
ZLG-7.5×0.75		7500	750	2000	1000	600	1850	3600
ZLG-7.5×0.9		7500	900	2100	1000	600	1850	4140
ZLG-7.5×1.2		7500	1200	2500	1150	800	2050	5190

机型 Model	流化床面积 Area of fluidized-bed (M ²)	进风温度 Temperature of inlet air (°C)	出风温度 Temperature of outlet (°C)	蒸发水份能力 Capacity to vapor moisture(kg/h)	振动电机 Vibration motor	
					型号 Model	功率 Power kw
ZLG-3×0.30	0.9	70 ~ 140	40 ~ 70	20 ~ 35	ZDS31-6	0.5×2
ZLG-4.5×0.30	1.35			35 ~ 50	ZDS31-6	0.75×2
ZLG-4.5×0.45	2.025			50 ~ 70	ZDS32-6	1.1×2
ZLG-4.5×0.60	2.7			70 ~ 90	ZDS32-6	1.1×2
ZLG-6×0.45	2.7			80 ~ 100	ZDS41-6	1.5×2
ZLG-6×0.60	3.6			100 ~ 130	ZDS41-6	1.5×2
ZLG-6×0.75	4.5			120 ~ 170	ZDS42-6	2.2×2
ZLG-6×0.9	5.4			140 ~ 170	ZDS42-6	2.2×2
ZLG-7.5×0.6	4.5			130 ~ 150	ZDS42-6	2.2×2
ZLG-7.5×0.75	5.625			150 ~ 180	ZDS51-6	3.0×2
ZLG-7.5×0.9	6.75			160 ~ 210	ZDS51-6	3.0×2
ZLG-7.5×1.2	9.0			200 ~ 260	ZDS51-6	3.0×2

QG系列脉冲气流干燥机

QG\JG\FG Series Air steam Dryer



概述 Descriptions

QG气流干燥机是大批量的干燥设备，它采用瞬间干燥的原理，利用载热空气的快速运动，带动湿物料，使湿物料浮在热空气中，这样强化了整个干燥过程，提高了传热传质的速率，经过气流干燥的物料，非结合水份几乎可以全部除去(例如：淀粉等物料进料含水量是≤40%左右，成品出料可为13.5%)，所干燥的物料，不会产生变质现象，产量可比一般干燥机有显著提高，用户在短期内取得较高的经济效益。

QG pulse air steam drier is large hath drier, it adopt instant drying principle, use the hot air which moving fast, drive damp raw material and make it float on the hot air, this strengthen the drying process, improved the speed of hot exchanging, raw material is dried by the drier which non-combine water can remove completely. (for example: aw materia1's first moisture less than 40%, output of finished product occupy 13.5%), raw material doesn't produce metamorphous phenomenon, output increase high than economic drier, the consumer can acquire upper economy benefit in short time.



应用 Applications

QG气流干燥机，适用于制药、化工、食品、建材、塑料等行业的粉状物料的干燥除湿，例如：淀粉、鱼粉、食盐、酒糟、面筋、塑料树脂、矿粉、煤粉、A·B·C苯甲酸、2·3·酸、聚氯乙烯、聚丙烯、硫酸钠、焦亚硫酸钠多种物料的干燥。

我公司就气流干燥设备对外咨询，并代为设计制造非定型气流干燥机。

The equipment is wide used for drying granule and powder raw materials in the field of foodsluff, chemical, pharmacy, construction materials, plastic industry. For example: starch, finish powder, salt, 1ess, gluten, feed, plastic resin, coal powder. A.B.C benzoic acid, 2,3 acid, PVC, polypropylene. Sodium sulfat e. sodium pyrosulfite and so on.

Our company can consultation with the drier. also can design and manufacture non-finalize drier.

特点 Features

本公司生产制造QG气流干燥设备，引进美国先进技术设备，经过独特的设计，已达到国际一流先进水平，本产品整个设备自动化程度高。投资少。耗能低。占用人力和厂房面积比较少，通用面广，是理想的现代化设备。

QG pulse air steam drier of our company introduces into the most advanced techniques and machines from the United Slates, has reached the advanced level of international, the equipment has many advantages listed below high in automatic degree, 1ittle in investment, low in energy consumption, little occupy in air of factory and work power, wide in applied surface, it is a perfect modern equipment.

技术参数 Technical parameters

名称 Name	参数 Parameter	型号 Model	QG-50	QG-100	QG-250	QG-500	QG-1500
水份蒸发量 Evaporation	kg/h		50	100	250	500	1500
空气过滤器 Air filter	面积 Area(m ²)		4	6	18	36	60
	台数 Amount		1	1	1	2	2
	更换时间 Exchange time(h)		200(滤袋)	200(滤袋)	200(滤袋)	200(滤袋)	200(滤袋)
加热器 Heater	面积 Area(m ²)		30	43	186	365	940
	耗用蒸汽 Consume of steam(kg)		120	235	450	972	2430
	工作压力 Work pressure(Mpa)		0.6-0.8	0.6-0.8	0.6-0.8	0.6-0.8	0.6-0.8
通风机 Ventilator	型号 Model		9-19-4.5	9-26-4.5	9-19-9	9-19-9	9-26-6.3
	台数 Amount		1	1	1	2	4
	功率 Power(kw)		7	13	24	43	150
加料器 Material charger	输送量 Amount of transportation(kg/h)		150	290	725	1740	4350
	控制方式 Control mode		电磁调速电机	电磁调速电机	电磁调速电机	电磁调速电机	电磁调速电机
	功率 Power(kw)		0.6	1.1	3	3	.5
旋风分离器 Cyclone separator	型号 Model		CLK-350-400	CLK-500-450	ZF12.5	ZF12.5	
	效率 Efficiency		98	98	98	98	
	数量 Amount		2	2	2	3	
袋滤器 Bag filter	数量 Amount		1	1	1	1	1
	耗气量 Consume of gas(m ³ /h)		3.6-20.0				

JG系列气流干燥机
JG Series Air steam Dryer

应用 Applications

本机特别适合含湿量比较大的，呈膏糊状的湿物料，以及用其他气流干燥方法无法干燥的物料，如：醋酸乙烯及聚乙烯的共聚物，醋酸纤维絮，催化剂、C.M.C、CT-1树脂、煅石膏、电解二氧化锰、蒽醌磺酸铵盐、氟石、硅藻土、硅胶催化剂、骨粉、过氧酸钾磺铵类药物、合成树脂、活性面筋、活性白土、化学滤饼、金红石型钛白粉、癸二酸、硫酸铜、硫酸铝、硫酸钠、磷酸钙、磷酸酯化淀粉、染料、柠檬酸钙、煤泥、粘土、粘土水泥、氢氧化铝、氢氧化钡、乳酸钙、食品、三聚氰酸石膏浆、石灰、生物制品、碳黑、碳酸钙浆、污泥渣、有机化学产品硬脂酸铝、氧化铁、有机燃料、玉米蛋白饲料、阴湿泥浆、云母粉、药剂、颜料、重铬酸钾纸浆、酒糟渣等。

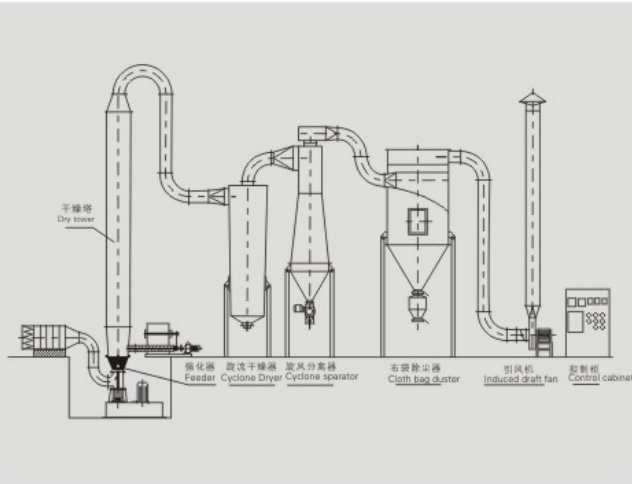
This dryer is suitable for the raw materials that contains high moisture and appear paste and other raw materials that can not be dried with other drying methods. For example, copolymer of vinyl acetate and chlorothymol, cellulose acetate, catalyst, C.M.C., CT-1 resin, burnt plaster, electrolytic manganese dioxide, anthraquinone ammonium sulphate, fluor, diatomaceous, silica gel catalyst, born powder, potassium perchlorate sulfonamide, synthesis resin, active gluten, active argil, chemical filter cake, titanium dioxide, decanoic acid, copper sulphate, Aluminum sulphate, sodium sulphate, calcium phosphate, starch, dyestuff, calcium citrate, coal earth, cement, aluminum hydroxide, barium hydroxide, slurry of calcium carbonate, residue of sludge, organic compounds, ferric oxide, organic fuel, maize albumen feed, mica powder, medicine, dyestuff, paper pulp of potassium prodromata, lees residue and so on.



工作原理 Principle of work

气流干燥能从易于脱水的颗粒，粉末状物料，迅速除去水份（主要是表面水份）。在气流干燥中，由于物料在干燥器内停留时间短，使干燥成品的品质得到最佳的控制。我厂强化型气流干燥是在基本型上增加一套转速可以无级调节的强化器组成，湿物料通过螺旋加料器进入强化器后和热气流充分混合，在飞速旋转的击打击碎和推进下，物料被破碎成细颗粒，在干燥同时向出口移动，最后在风力吸引下进入干燥管，进一步均匀干燥。风力无法吸引的湿重颗粒继续被击碎、干燥、直至能被风吸起进入干燥管。

Air stream dryer can remove moisture from the surface of raw materials of granules or powder that are easy to dehydrate. Under the air stream drying process, the quality of finished products can be controlled to the best because of raw material stays a short time. The dryer of our factory is developed on the basis of basic spec to add a reinforced device of steeples speed exchange. When the humidity raw material is fed through screw, it is mixed with air fully and is broken and pushed by rotating knives, the surface of raw material is broken to fine granule. It moves to the outlet at the same time of drying. Finally it enters into drying pipe under the absorbing of air force, it is dried further there. The humid and heavy granule that is not absorbed by air is broken and dried continuously till entering the drying pipe.



技术参数 Technical parameters

(以玉米淀粉为准 calculated based on maize)

型号spec	蒸发水份(kg/h)以表面水份计算 moisture be evaporated(calculated based on the surface moisture)	装机功率 power(kw)	占地面积(m²) area to occupied	高度 height(m)
JG 50	50	10	20	9
JG 100	100	20	32	11
JG 200*	200	31	40	11
JG 250	250	32	64	13
JG 500*	500	54	96	13
JG 1000*	1000	135	120	15
JG 1500*	1500	175	200	16

注：1、有*号为二级干燥 2、装机功率、占地面积以蒸汽加热方式计算

Note: 1、marked with * has two grade for drying. 2、Its power and area to be occupied are calculated based on steam heating.

干燥、混合、制粒、粉碎设备优质供应商
Drying, Mixing, Granulating, Crushing equipment of high quality suppliers

XSG系列旋转闪蒸干燥机

XSG Series Revolving Flash Vaporization Dryer

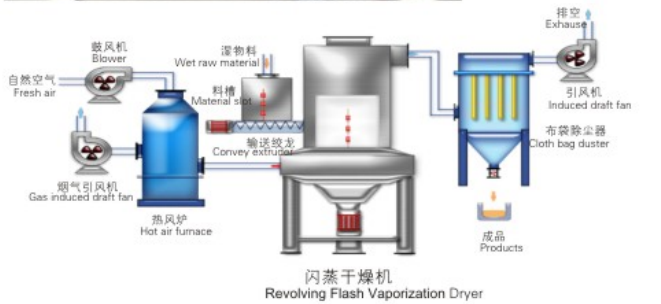


概述 Descriptions

旋转闪蒸干燥机是我公司为克服静态干燥低效、高耗而研制开发的新型高效流态化干燥设备。该机在设计过程中充分结合气流干燥等普通流态干燥的特点，扬长避短，使整机具有合理的工艺结构和优越的使用性能，真正实现流态化干燥的低耗、高效目标。

本机应用范围极其广泛，可用于橡塑助剂、农药、颜料、染料精细化工、饲料、医药及部分中间体的脱湿干燥。

The revolving flash vaporization dryer is a new and high efficiency fluidized drying equipment which is researched and developed for the sake of overcoming the low efficiency and high consumed static drying by our company. We have joined the characteristics of ordinary fluidized drying such as air stream drying, in designing process, and have developed advantage and reduced shortcoming with the advantageous usage function. All this really realizes the target of the consuming and high efficiency of the fluidized drying. The dryer is widely used for drying rubber and plasticizer, agrochemical, pigment, dyestuff, chemical industry, animal feed, medicine and kinds of intermediates.



原理 Principle

热空气由入口管以适宜的喷动速度从干燥机底部进入搅拌粉碎干燥室，对物料产生强烈的剪切、吹浮、旋转作用，于是物料受到离心、剪切、碰撞、摩擦而被除数微粒化，强化了传质传热。在干燥机底部，较大较湿的颗粒团在搅拌器的作用下被机械破碎，湿含量较低、颗粒度较小的颗粒被旋转气流夹带上升，在上升过程中进一步干燥。由于气固两相作旋转流动，固相惯性大于气相，固气两相间的相对速度较大，强化两相间的传质传热，所以该机生产强度高。

The hot air is managed with suitable gushing out the speed of moving and entering and mixing and crushing the dry room from the desiccator bottom by the entry, strong shear, blowing floating, function not rotatory of to supplies produce, then supplies the at odds with the community or the leadership, shear, not collide, rub but dividend particle, have strengthened and spread the quality and conducted heat. In desiccator bottom, heavy wetter particle group broken machinery have under function of agitator, the wet content is lower, the particle and one degree of smaller particles are rotated the air current and carried secretly and risen, it is dry further in the course of rising. Because angry firm two phase rotates to flow, firm looks inertia is greater than the gaseous phase, alternate relative speed two of firm air is relatively large, strengthen two alternate biography qualities and conduct heat, so this machine produces the intensity high.

特点 Features

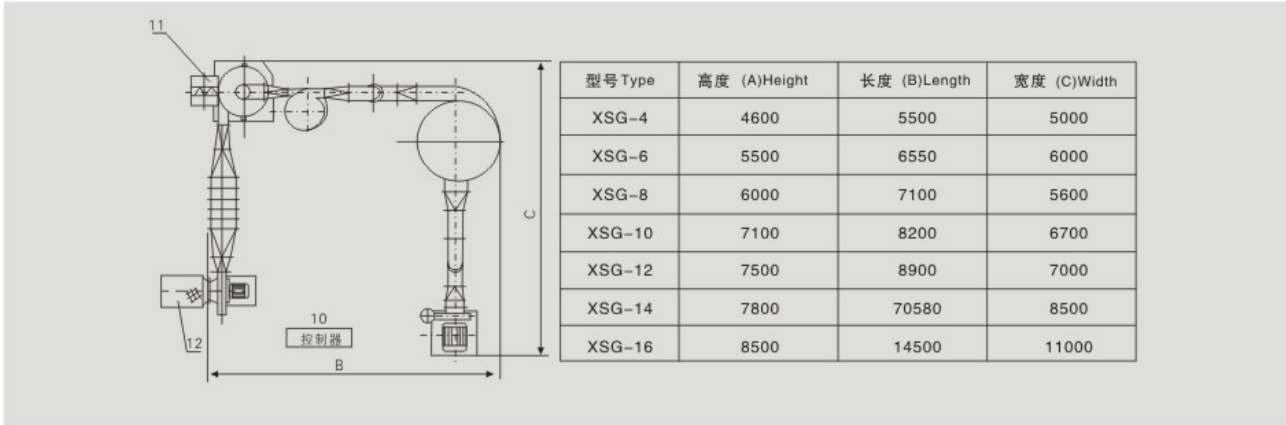
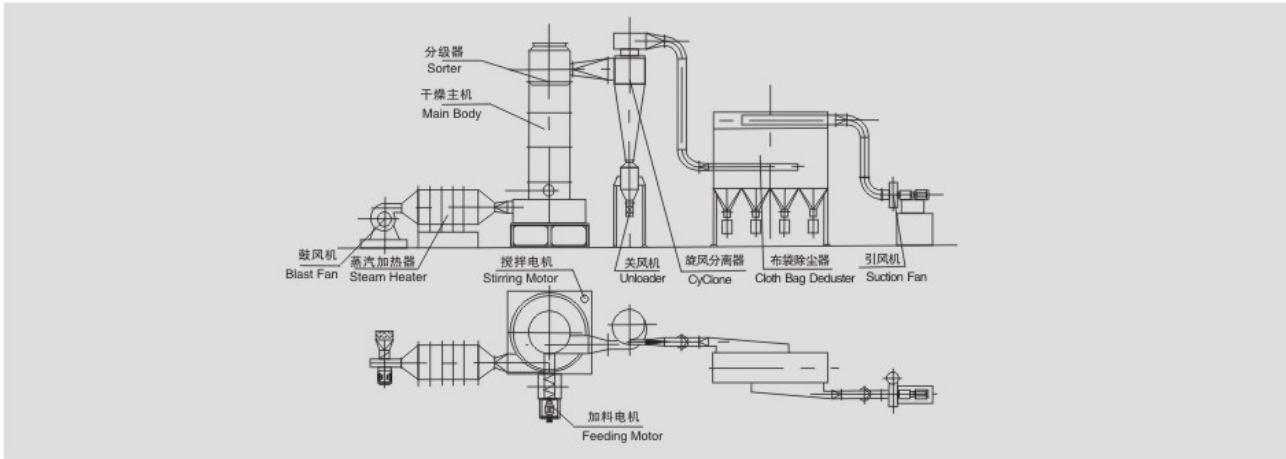
- 多种加料装置供选择，加料连续稳定，过程中间不会产生架桥现象。
- 干燥机底部设置特殊的冷却装置，避免了物料在底部高温区产生变质现象。
- 特殊的气压密封装置和轴承冷却装置，有效延长传动部分的使用寿命。
- 特殊的分风装置，降低了设备阻力，并有效提供了干燥器的处理风量。
- 干燥室装有分级环及旋流片，物料细度和终水份可调。（如碳酸钙终水份可调节器至≤0.1%）
- 干燥室内周向气速高，物料停留时间短，有效防止物料粘壁及热敏性物料变质现象，达到高效、快速、小设备、大生产。



- Many kinds of reinforced device is it choose to support, feed in raw material in succession steady, course can produce phenomenon of bridging.
- Set up the special cooling device in the desiccator bottom, has prevented the supplies from producing the rotten phenomenon in the high-temperature district of the bottom.
- Special atmospheric pressure seal installation and bearing cool the device, the service life of the running part of effective extension.
- Special points of wind device, has reduced the obstruction of the equipment, and has offered the wind amount of treatment of the desiccator effectively.
- Dry room equip with hierarchical ring and swirl slice, supplies detailed degree and end moisture content adjustable. (Such as calcium carbonate end but from regulator to moisture content. 1%)
- It is high to the angry speed in week in the dry room, the time of staying of supplies is short, prevent the supplies from glueing the temperature sensing closely linked fortifications surround the capital rotten phenomenon of supplies effectively, reach high-efficient, fast, little equipment, great production.

XSG系列旋转闪蒸干燥机
XSG Series Revolving Flash Vaporization Dryer

■ 布置参考图 Sketch of Collocation



■ 技术参数 Technical parameters

项目Items 型号Type	主机内径(mm) Barrel diameter	处理风量(m³/h) Treatment wind capacity	蒸发水量(kg/h) Water evaporation quantity	最大装机容量(kw) Max.equipment capacity	主机尺寸(m) Main machine dimensions	占用平面m² occupied area
XSG-2	200	300-800	10-20	5-9	250x2800	3500x2500
XSG-3	300	600-1500	20-50	8-15	400x3300	3800x2700
XSG-4	400	1250-2500	25-70	10-17.5	500x3500	4000x3000
XSG-5	500	1500-4000	30-100	12-24	600x4000	4200x3200
XSG-6	600	2500-5000	40-200	20-29	700x4200	4250x3250
XSG-8	800	3000-8000	60-600	24-35	900x4600	4500x3500
XSG-10	1000	5000-12500	100-1000	40-62	1100x5000	4750x3750
XSG-12	1200	10000-20000	150-1300	50-89	1300x5200	5000x4000
XSG-14	1400	14000-27000	200-1600	60-105	1500x5400	5250x4250
XSG-16	1600	18700-36000	250-2000	70-105	1700x6000	5500x4500

注：1.水份蒸发量以进风温度180℃，出风80℃计。2.装机容量为基本数据，可根据物料性能改变。3.占地面积根据实际情况布置，表中数据仅供参考。
Note: 1.The evaporated amount of moisture is calculated when the temperature of inlet is 180℃ and the temperature of outlet is 80℃. 2.Beside the models above mentioned,specification can be made as request. 3.Occupied area will be different because of different enviroment.



HG系列滚筒刮板干燥机
HG Series Cylinder And Scratch Board



■ 原理 Principle

滚筒干燥机是一种内加热传导型转动连续干燥设备。旋转的滚筒通过其下部料槽，粘附着一厚度的料膜，热量通过管道输送至滚筒内壁，传导到滚筒外壁，再传导给料膜，使料膜中的湿得到蒸发、脱湿、使含湿分的物料得到干燥。干燥好的物料被装置在滚筒表面的刮刀铲离滚筒，到置于刮刀下方的螺旋输送器，通过螺旋输送器将干物料集中、包装。
It is inner heating conductive drying equipment; the wet materials gain the heating from the wall of the roller to dehydrate the water. The heating is transferred from the inner roller wall to the outer wall and then goes through the film. The thermal efficiency is very high, so it can be continuously operated. It is widely used for drying liquid or paste materials.

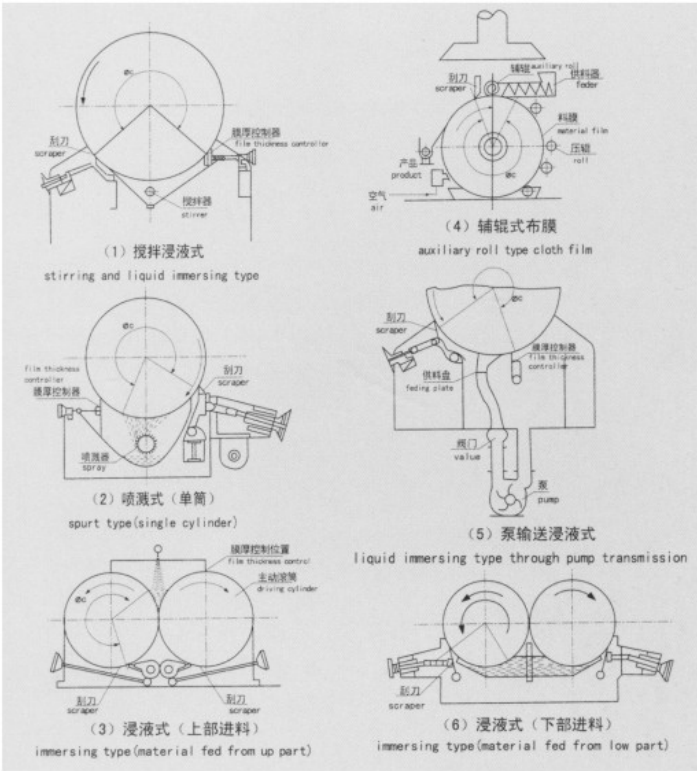
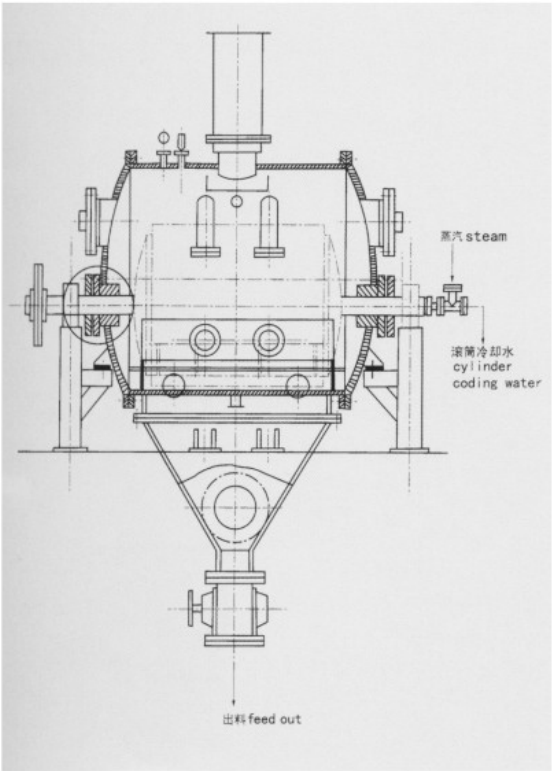
■ 结构形式 Structural style

可分为二种形式：单筒，双筒干燥机，另外也可按操作压力分常压和减压两种形式。
Maydivided into two forms: the single tube, double drum dryer, also may according to the operating pressure points, normal pressure and decompression in two forms.

■ 特点 Features

- 热效率高。因滚筒干燥机传热机理属热传导，传热方向在整个操作周期中保持一致，除盖散热和热辐射损失外，其余热量全部都用于筒膜湿分的蒸发上，热效率可达80%—90%。
- 操作弹性大，适用性广。可调整滚筒干燥机的诸多干燥因素。如进料的浓度、涂料料膜的厚度、加热介质的温度、滚筒的转动速度等，都可以改变滚筒干燥机的干燥效率，且诸多因素互无牵连。这给滚筒干燥操作带来很大的方便，使之能适应多种物料的干燥和不同产量的要求。
- 干燥时间短。物料的干燥周期一般只有10-15秒，在适合于热敏性物料。若将滚筒干燥机设置在真空中，则可在减压条件下运行。
- 干燥速率大。由于涂料抹于筒壁的料膜很薄，一般在0.3-1.5mm，且传热、传质方向一致，料膜表面可保持30-70kg.H₂O/m².h的蒸发强。
- High thermal efficiency. Because of drum dryer heat transfer mechanism of heat transfer, heat transfer direction is consistent throughout the operating cycle, in addition to the heat dissipation and heat loss, all of the remaining heat used for tube materials on the membrane evaporation of moisture, thermal efficiency can reach 80% -90%.
- Large elasticity of operation, and wide applicability. The adjustable roller drier many drying factors. Such as the concentration of the feed, the thickness of the coating material, the temperature of the heating medium, rotating speed of drum etc, can change the drum dryer drying efficiency, and many factors mutual involvement. This drum drying operation to bring a lot of convenient, make it can adapt to a variety of dry materials and different production requirements.
- The drying time is short. The drying period of materials is normally 10 to 15 seconds, suitable for heat-sensitive materials. If set the roller drier in vacuum, can run under the condition of reduced pressure.
- Fast drying rate. Due to the membrane material of coating put on in the wall is thin, generally in 0.3-1.5 mm, and the heat transfer and mass transfer in the same direction, material of membrane surface can keep the 30-70 kg. H₂O/m².h

HG系列滚筒刮板干燥机
HG Series Cylinder And Scratch Board



应用 Applications

HG系列滚筒干燥机广泛用于食品、化工、医药等行业粘性、膏糊状物料制片、干燥等工序。
Such processes as the HG series cylinder desiccator is used in such trades as the food, chemical industry, medicine, etc. viscosity, lotion pastel supplies film-making, dry extensively.

技术参数 Technical parameters

规格 Model size	滚筒尺寸 Sizes of Cylinder Diameter×Length (mm)	有效加热面积 Effective Heating Area(m ²)	干燥能力 Drying capacity (Kg/h)	蒸汽耗量 Steam Consumption(kg/h)	电机功率 Power of Motor (kw)	外形尺寸 Sizes L×W×H (mm)	重量 Weight (kg)
HG-600	Φ600×800	1.12	40-70	100-175	2.2	1700×800×1500	850
HG-700	Φ700×1000	1.65	60-90	150-225	3	2100×1000×1800	1210
HG-800	Φ800×1200	2.26	90-130	225-325	4	2500×1100×1980	1700
HG-1000	Φ1000×1400	3.30	130-190	325-475	5.5	2700×1300×2250	2100
HG-1200	Φ1200×1500	4.24	160-250	400-625	7.5	2800×1500×2450	2650
HG-1400	Φ1400×1600	5.28	210-310	525-775	11	3150×1700×2800	3220
HG-1600	Φ1600×1800	6.79	270-400	675-1000	11	3350×1900×3150	4350
HG-1800	Φ1800×2000	8.48	330-500	825-1250	15	3600×2050×3500	5100
HG-1800A	Φ1800×2500	10.60	420-630	1050-1575	18.5	4100×2050×3500	6150

DW系列带式干燥机
DW Series Mesh-Belt Dryer



概述 Descriptions



DWT密封循环带式干燥机
DWT seal property circle type



DW多层干燥机
DW multi-layer drying machine



原理 Principle

物料由加料器均匀地铺在网带上，网带一般采用12-60目不锈钢丝网，由传动装置拖动在干燥机内移动。干燥机由若干单元组成，每一单元热风独立循环，部分尾气由专门排湿风机排出，废气由调节阀控制，热气由下往上或由上往下穿过铺满物料的网带完成热量与质量传递的进程，带走物料水份。网带缓慢移动，运行速度可根据物料温度自由调节，干燥后的成品连续落入收料器中。上下循环单元根据用户需要可灵活配备，单元数量亦可根据需要选取。

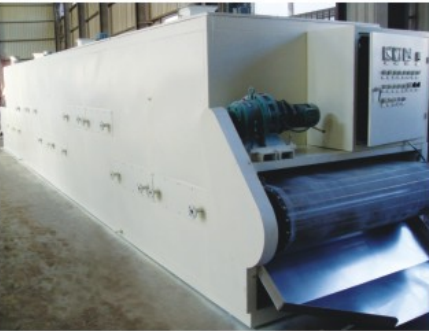
The materials are uniformly distributed on the mesh-belt by the material feeder. The mesh-belt generally adopts 12-60 mesh stainless steel mesh and it is drawn by a transmission device and move inside the dryer. The dryer is composed of several sections. For each section, the hot air is circulated separately. Part of exhausted gas is exhausted by a special moisture exhaust blower. The waste gas is controlled by an adjustment valve. The hot air passes through the mesh-belt covered with bring water material away. The mesh-belt moves slowly, running speed can be freely adjusted according to the material property. The final products after the drying process will fall into the material collector continuously. The top and low circulation units can be freely equipped according to the user's requirements. The number of section might be selected according to the production demands.



应用 Applications

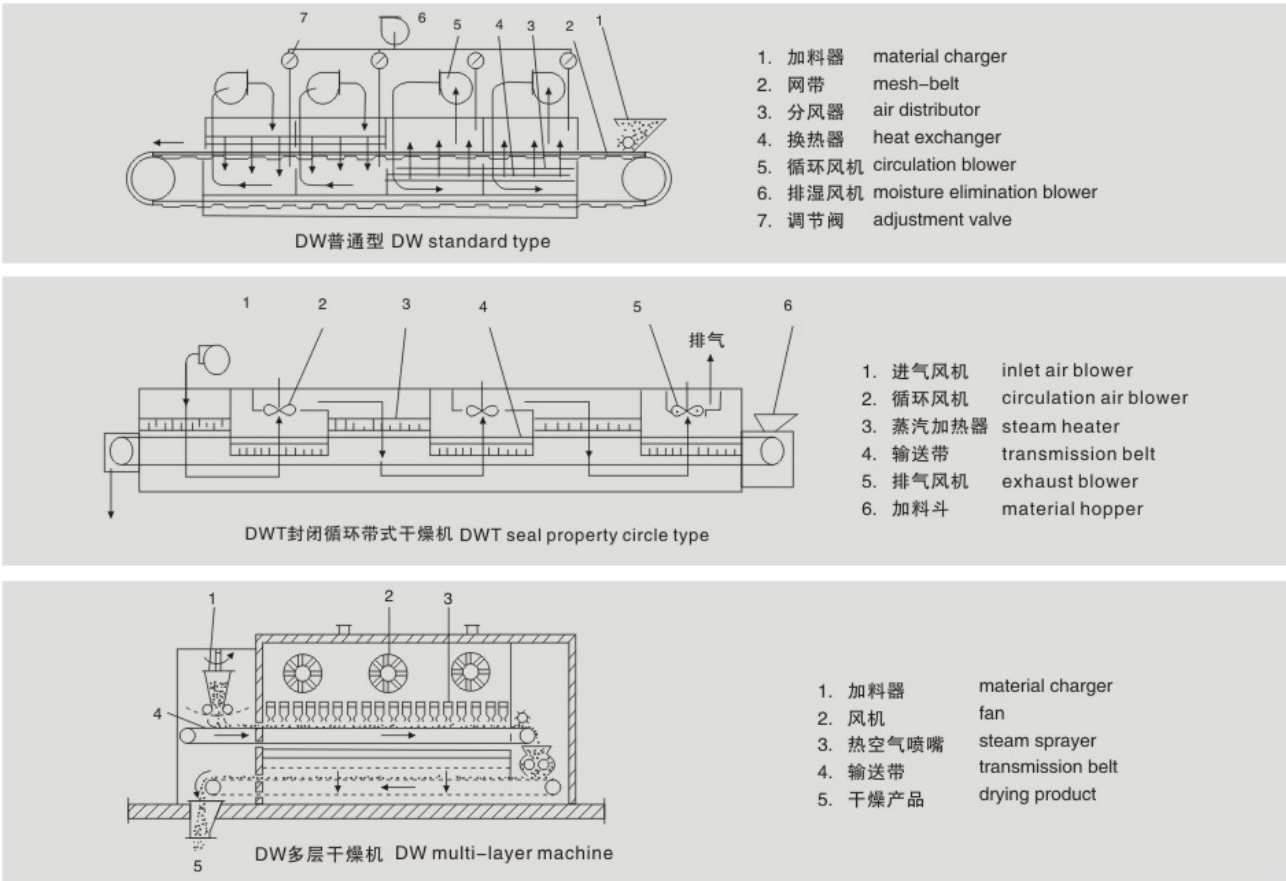
炒货、脱水蔬菜、颗粒饲料、味精、椰蓉、有机塑料、合成橡胶、丙烯酸纤维、药品、药材、小木制品、塑料制品、电子元器件老化、固化等。

Roasted seeds, De-watering vegetable, particle feed, gourmet powder, shredded coconut stuffing, organic color, compound rubber, acral fibre, medicine product, medicine material, small wooden product, plastic product, aging and solidification for the electronic component and device.



DW系列带式干燥机
DW Series Mesh-Belt Dryer

流程图 Flow chart



技术参数 Technical parameters

型号 spec	单位 unit	DW-1.2-8	DW-1.2-10	DW-1.6-8	DW-1.6-10	DW-2-8	DW-2-10
单元数 unit number		4	6	4	6	4	6
带宽 belt width	m	1.2	1.2	1.6	1.6	2	2
干燥段长 drying section length	m	8	10	8	10	8	10
铺料厚thickness of the material	mm	10 ~ 80					
使用温度 temperature	℃	60 ~ 130					
蒸汽压力 steam pressure	Mpa	0.2 ~ 0.8					
蒸汽耗量 steam consumption	kg/h	150-300	150-375	150-375	170-740	170-740	225-600
干燥时间 drying time	h	0.2-1.2	0.25-1.5	0.2 ~ 1.2	0.25-1.5	0.2 ~ 1.2	0.25-1.5
干燥强度drying strength	kgH ₂ O/h	60-160	80-220	75-220	95-250	100-260	120-300
风机总功率 total power of the blower	kW	9.9	12.1	9.9	12.1	18.2	22.2
设备总功率 total power of the equipment	kW	11.4	13.6	11.4	13.6	19.7	23.7

注：1.带式干燥机一般都是结合某种物料的特殊性而设计的专业设备。2.其技术参数参照DW型参数表推出。

DWT系列脱水蔬菜干燥机
DWT Series Dryer for Vegetable Dehydration



概述 Descriptions

DWT脱水干燥机是在传统网带式干燥机基础上研究开发的专用型设备，具有较强的针对性，实用性，能源效率高，广泛用于各类地区性和季节性蔬菜、果品的脱水干燥，如：蒜片、南瓜、魔芋、白萝卜、山药、竹笋等，已拥有用户50多家，在线设备80多台套，是国内最富经验的蔬菜干燥设备生产企业，工厂科技人员长期跟踪服务于这些用户，深入用户进行调试研究，得到第一手实践资料并结合国外先进技术，不断改进完善设备，到目前为止，已开发了对第三代DWT系列蔬菜脱水干燥机，我们在为用户生产制作设备时，根据所需干燥产品的特性，用户工艺要求，结合十几年来积累的经验，为用户设计制作出最适用，品质最佳的蔬菜干燥设备。

DWT Series Dryer for Vegetable Dehydration os special equipment researched and developed on the basis of traditional net belt dryer, it has stronger pertinency, practicability and high efficiency of energy. It is wide used for all kinds of vegetables dehydration such as garlic, cushaw, giantarum, white turnip, yam, bamboo shoot, dtc at different region and season, our factory has more 50 of customers and more 80 of production line in operation. Our factory is an enterprise with the richest experience to manufacture dryer for vegetables dehydration. The technicians of our factory carry out after sales service for customers all the year round and help customers to debug and produce. There fore they have got first-hand practical data and combined domestic and abroad advanced technology and improved and perfected the equipment. Till the third generation. DWT series dryer for vegetables dehydration has been developed. we are making advanced productive equipment for customers. according to the characteristics of raw materials too be dried and the process requirements of customers and combined the accumulated experience for more ten years, we have made the most suitable and the dryer for vegetables dehydration too supply customers.

应用 Applications

◇ 能满足根、茎、叶类条状、块状、片状、大颗粒等蔬菜物料干燥和大批量连续生产，同时能最大限度的保留产品的营养成分及颜色等。
◇ 干燥的典型物料有：蒜片、南瓜、胡萝卜、魔芋、山药、竹笋、辣根、洋葱、苹果等。

◇ It can meet to dry different vegetables such as, root, halm, leaf, tuberos rot, big granule and produce in batch. Meanwhile it can maintain content of nutrition, color, etc of vegetable in most extent.
◇ The type raw materials are garlic, cushaw, giantarum, while turnip, yam, bamboo shoot, capsicum, onion, apple, etc.



特点 Features

◇ 干燥面积、风压、风量、干燥温度、网带速度均可调节，以适应蔬菜的特性及品质要求。
◇ 可根据蔬菜的不同特点，采用不同的工艺水流程及添加配套必要的辅助设备。
◇ Its dry area, air pressure, air amount, dry temperature and speed of net belt can be adjusted in order to suitable foe different characteristics of vegetable and the requirement of quality.
◇ It can adapt different process and equip necessary auxiliary equipment in accordance with different characteristics of vegetable.



DWT系列脱水蔬菜干燥机

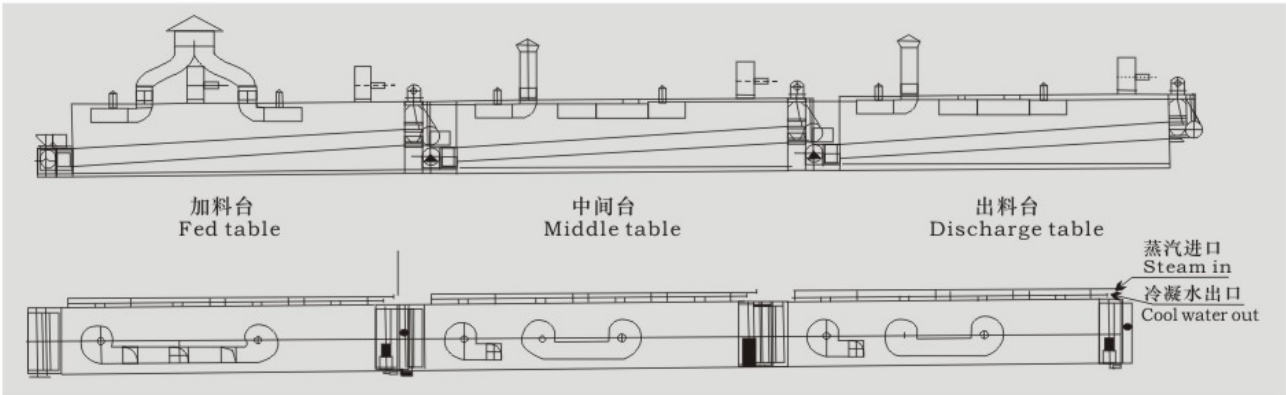
DWT Series Dryer for Vegetable Dehydration

原理 Principle

- 蔬菜脱水干燥机分别有加料器、干燥床、热交换器及排湿风机等主要部件组成。
- 干燥机工作时，冷空气通过热交换器进行加热，采用科学合理循环方式，使热空气穿流通过床面上的被干燥物料进行均匀的热质交换，机体各单元内热气流在循环风机的作用下进行热风循环，最后排出低温高湿度的空气，平稳高效地完成整个干燥过程。

● The dryer for vegetable dehydration consists of feeder, drying bed, heat exchanger, damp exhaust fan, etc. ● When operation, air will be entered into dryer and heated through heat exchanger. Being adapted scientific and reasonable cycle method, the hot air will pas through raw materials to be dried on the bed and carry out uniform heat exchange. Under the action of cycle fan, the hot air stream inside each unit of the dryer will carry out hot air cycle. Final air with low temperature and high damp will be out. The whole drying process with stably and high effect will be finished.

流程图 Flow chart



技术参数 Technical parameters

型号Type	DWT1.6-I (加料台) fed table	DWT1.6-II (中间台) middle table	DWT1.6-III (出料台) discharge table	DWT2-I (加料台) fed table	DWT2-II (中间台) middle table	DWT2-III (出料台) discharge table
网带宽Belt width (mm)	1.6	1.6	1.6	2	2	2
干燥段长Drying section length (m)	10	10	8	10	10	8
铺料厚度 Thickness of the material to be covered(mm)	≤100	≤100	≤100	≤100	≤100	≤100
使用温度Temperature(℃)	50-150℃	50-150℃	50-150℃	50-150℃	50-150℃	50-150℃
换热面积Areae of heat conduction(m²)	525	398	262.5	656	497	327.5
蒸汽压力Steam pressure(MPa)	0.2-0.8	0.2-0.8	0.2-0.8	0.2-0.8	0.2-0.8	0.2-0.8
干燥时间Drying time(h)	0.2-1.2	0.2-1.2	0.2-1.2	0.2-1.2	0.2-1.2	0.2-1.2
装机功率 Power(kw)	15.75	12.75	9.55	20.75	16.75	12.55
外形尺寸Overall Dim.(m)	12×1.81×1.9	12×1.81×1.9	10×1.81×1.9	12×2.4×1.92	12×2.4×1.92	10×2.4×1.92

注：1、将上表中同一规格的网带干燥机加料台、中间台、出料台三台串联使用，保证蔬菜脱水干燥生产工艺要求工艺要求，显著提高产量，有效保证产品质量。
2、设备高度不包括风机、风管高度。
Note: 1) When make fed table, middle table and discharge table with same specification mentioned above in series for use, it can form the process requirements of productions line for vegetables dehydration and raise the output obviously and guarantee the quality of products effectively.
2) The height of equipment does not include the height of fan and air duct.

GFG系列高效沸腾干燥机

GFG Series High-Efficiency Fluidizing Dryer



特点 Features

- 流化床为圆形结构，避免死角。
- 料斗设置搅拌，避免潮湿物料团聚及干燥时形成沟流。
- 采用翻倾卸料，方便迅速彻底，亦可按要求设计自动进出料系统。
- 密闭负压操作，气体经过过滤。操作简便，清洗方便，是符合“GMP”要求的理想设备。
- 干燥速度快，温度均匀，每批干燥时间一般在20-30分钟。
- The structure of fluidization bed is of round so as to avoid dead corner.
- Inside the hopper there is a stirring device in order to avoid agglomeration of raw material and forming canal of flow.
- The granule is discharged through the method of turning over. It is very convenient and full. The discharged system can be designed as request too.
- It is operated at he conditions of negative pressure and seal. The air is filtered. Therefore it is simple in operation and convenient for cleaning. It is an ideal equipment that is in conformity with the requirements of GMP.
- The drying speed is fast and the temperature is uniform. The drying time is 20-30 minutes normally.



原理 Principle

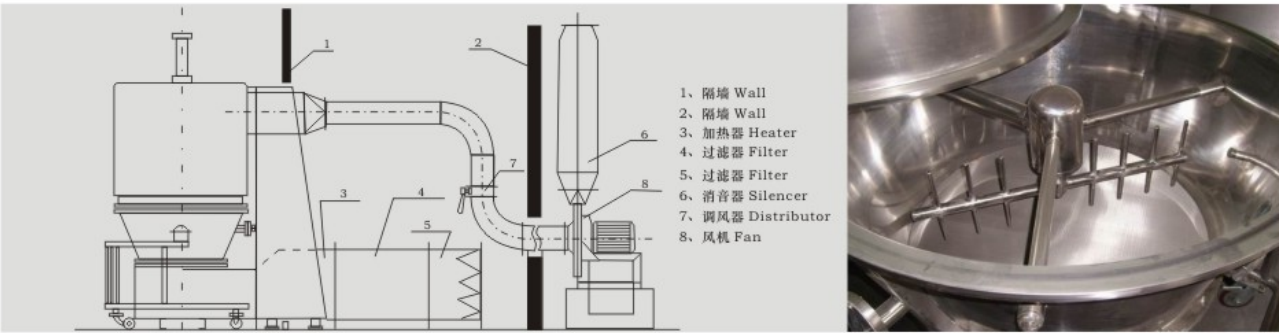
空气经加热净化后，由引风机从下部导入，穿过料斗的孔网板。在工作室内，经搅拌和负压作用形成流态化，水份快速蒸发后随着排气带走，物料快速干燥。

Purified and heated air is introduced from the bottom through suction fan and passed through the screen plate of raw material. In the work chamber, the state of fluidization is formed through stirring and negative pressure. The moisture is evaporated and removed rapidly and the raw material is dried quickly.

应用 Applications

- 机制螺杆挤压颗粒、摇摆颗粒、湿法高速混合制粒颗粒。
- 医药、食品、饲料、化工等领域湿颗粒和粉状物料干燥。
- 大颗粒，小块状，粘性块状物料。
- 魔芋等干燥时体积变化的物料。
- Use screw to extrude and vibrate granule and granulate granule using the methods of humidity, high speed and mixing;
- Suitable for drying humidity block or powder raw material in the fields such as pharmaceutical, foodstuff, feedstuff, chemical industries and so on;
- The raw material is large in granule and small in bolck and having adhesive property;
- Suitable for raw materials, its volume will be changed when dry, such as giantarum, polyacrylamide, etc.

安装结构图 Schematic of installation



技术参数 Technical parameters

项目 Item	单位 Unit	型号 Type							
投料 capacity	Kg	60	100	120	150	200	300	500	1000
风机 fan	风量 velocity	m³/h	2361	3488	4000	4901	6032	7800	10800
	风压 air pressure	mmH₂O	594	533	533	679	787	950	1200
	功率 power	kw	7.5	11	11	15	22	30	37
搅拌功率 stirring power	kw	0.4	0.55	0.55	1.1	1.1	1.1	1.5	2.2
搅拌转速 stirring speed	rpm	11							
蒸汽耗量 consume of steam	kg/h	141	170	170	240	282	366	451	800
操作时间 time of operation	min	15-30(视物料情况而定 depends on material)							
主机高度 height of main machine	mm	2700	2900	2900	2900	3100	3600	3850	5800

ZPG系列真空耙式干燥机

ZPG Series Vacuum Harrow Dryer

应用 Applications

- 医药、食品、化工等行业进行以下物料干燥
- 适用于浆状、膏糊状、粉状物料。
- 要求低温干燥的热敏性物料。
- 易氧化、易爆、强刺激、剧毒物料。
- 要求回收有机溶剂的物料。

The following raw materials from pharmaceutical industry, food-stuff industry, chemical industry and so on can be dried.

- Suitable for pulpiness, paste-like mixture of powder raw materials.
- Thermal sensitive raw materials having the requirement to dry at lower temperature.
- Raw materials that are easy to oxidized or explode and have strong irritative or toxic.
- Raw materials that need to recover solvent.

特点 Features

- 本机采用夹层与内搅拌同时加热方式，传热面大，热效率高。
- 本机设置搅拌，使物料在筒内形成连续循环状态，进一步提高了物料受热的均匀度。
- 本机设置搅拌，从而可顺利进行浆状、膏状、糊状物料干燥。

Being adapted the heating way of jacket and inner stirring at the same time, heat conducting area is large and its heat efficiency is high.

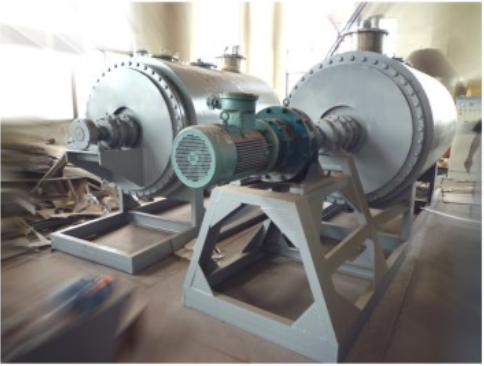
Being installed stirring in the machine, it makes raw material in the cylinder form the state of continuous circle inside the cylinder, so the uniformity to be heated of raw material is raised greatly.

Being installed stirring apparatus in the machine, pulpiness, pastelike mixture or powder raw materials can be dried easy.

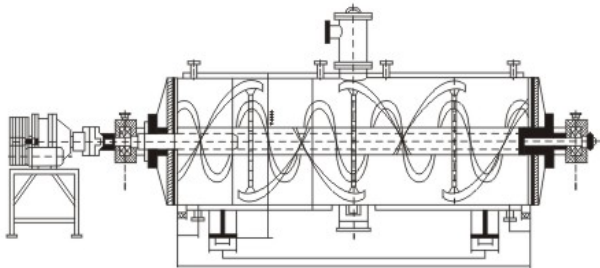
技术参数 Technical parameters

项目Item		机型 type						
名称Name	单位unit	ZPG-500	ZPG-750	ZPG-1000	ZPG-1500	ZPG-2000	ZPG-3000	ZPG-5000
工作容积 Working volume	L	300	450	600	900	1200	1800	3000
内筒尺寸 over in the cylinder	Mm	Φ 600 × 1500	Φ 800 × 1500	Φ 800 × 2000	Φ 1000 × 2000	Φ 1000 × 2600	Φ 1200 × 2600	Φ 1400 × 3400
搅拌转速Stirring revolution	rpm	7~6						
功率Power	kw	4	5.5	5.5	7.5	11	15	22
夹层设计压力 Design pressure of jacket	MPa	0.3						
筒内压力 Pressure in the cylinder	Mpa	-0.096 ~ -0.15						

注：水份蒸发量与物料的特性及热风进、出口温度有关。随着产品不断更新，有关参数变更，恕不预先通知。
Notes: the evaporated amount of water is related to the characteristics of raw materials and the temperature of air in and air out. With renew products unceasingly, the related parameters will be exchanged, it does not announce in advance, pardon!



结构简图 Sketch of structure



LPG系列高速离心喷雾干燥机

LPG Series High-Speed Centrifugal Spray Dryer



概述 Descriptions

LPG系列高速离心式喷雾干燥机是一种适用于乳浊液、悬浮液、糊状物、溶液等液体干燥的专用干燥设备。在聚合物和树脂类；染料、颜料类；陶瓷、玻璃类；除锈剂、杀虫药类；碳水化合物、乳制品类；洗涤剂 and 表面活性剂；肥料类；有机化合物、无机化合物液体物料的干燥上，表现得尤为出色。

LPG series high-speed centrifuge atomizing dryer is a special equipment and is suitable for drying emulsion, suspending liquid, liquor and so on. Particularly it has unique advantage for drying polymers and resins; dyestuff and pigment; ceramics, glass; derust agent; pesticide; carbohy-drate, dairy products; detergent and surfactant; fertilizer, organic compound, inorganic compound and so on.

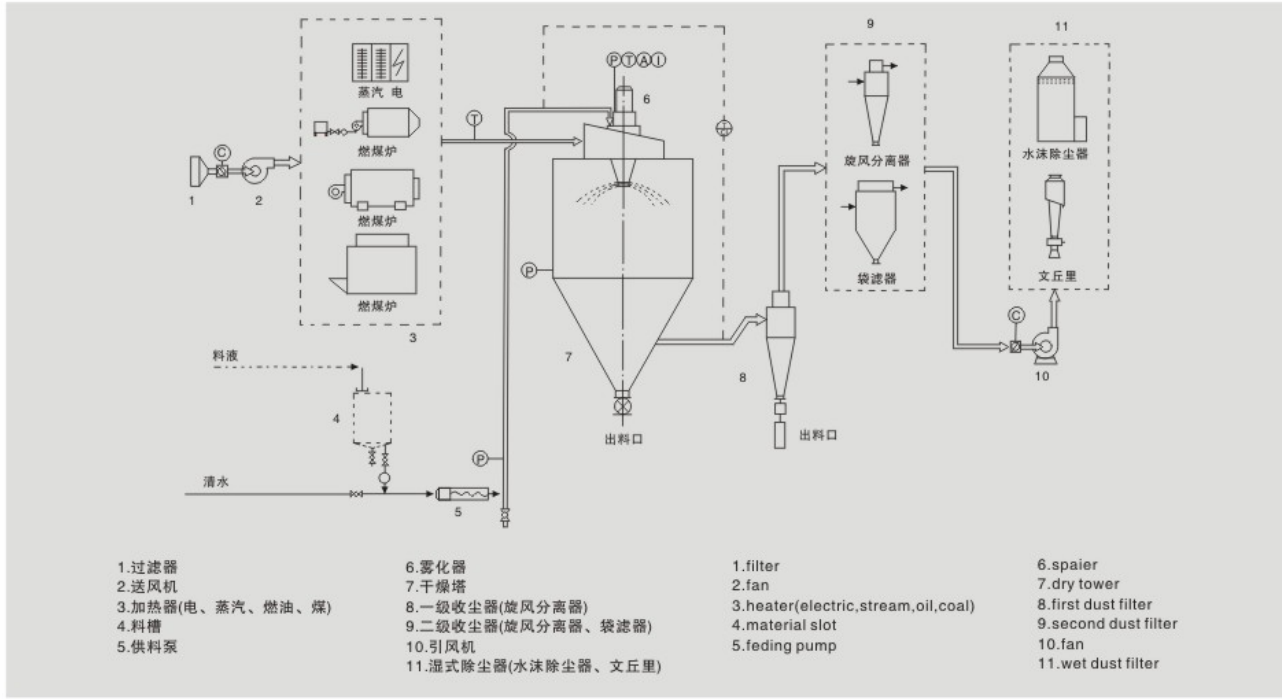


原理 Principle

空气通过过滤器和加热器，进入干燥顶部的空气分配器，热空气呈螺旋状均匀进入干燥器。料液由料液槽经过过滤器由泵送至干燥器顶部的离心雾化器，使料液喷成极小的物料液滴，料液和热空气并流接触，水份迅速蒸发，在极短的时间内干燥为成品。成品由干燥塔底部和旋风分离器排出，废气由风机排出。

Air is turned into hot air through air filter and heater and enters into hot air distributor at the top of dry chamber and then enters into dry chamber spirally and evenly. At the same time liquid of raw material is sent to centrifugal atomizer at the top of dry chamber pumped by pump through filter. In which liquid of raw material atomizes into droplets. Air and liquid of raw material flows and contacts each other fully. The moisture vaporizes rapidly. Liquid of raw material is dried into finished product in a short time. The finished product is discharged through cyclone separator at the bottom of drier. The wasted air is exhausted through fan.

工艺流程 Technological process

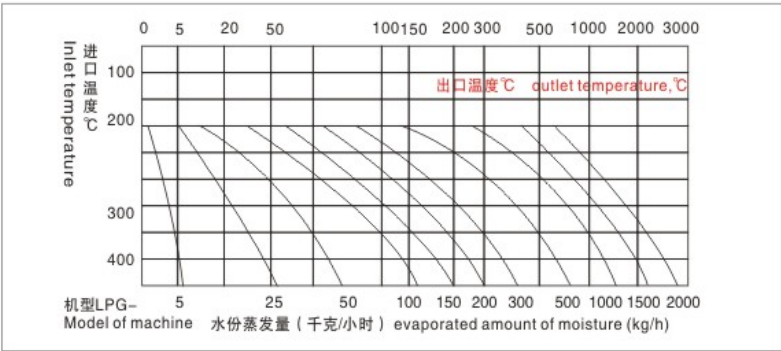


LPG系列高速离心喷雾干燥机
LPG Series High-Speed Centrifugal Spray Dryer

特点 Features

- 干燥速度快，料液经雾化后，表面积大大增加，在热风气流中，瞬间就可蒸发95%~98%的水份，完成干燥时间仅需数秒钟，特别适用于热敏性物料的干燥。
- 产品具有良好的均匀度、流动性和溶解性、产品纯度高、质量好。
- 生产过程简化，操作控制方便。对于湿含量40~60% (特殊物料可达90%)的液体能一次干燥成粉粒产品，干燥后不需粉碎和筛选，减少生产工序，提高产品纯度。对产品粒径、松密度、水份，在一定范围内可通过改变操作条件进行调整，控制和管理都很方便。
- At a high speed of drying, after the spraying of the liquid material, the surface area of the material will be increased greatly. In the hot-air flow, 95%~98% of water can be evaporated at a moment. The time of completing the drying needs only several seconds.
- This is especially suitable for drying the heat sensitive materials. Its final products own the good uniformity, mobility, dissolving capacity. And the final products are high in their purity and good in their quality.
- The production procedures are simple and the operation and control are easy. The liquid with the moisture contents 40~60% (for special materials, the contents may reach 90%). Can be dried into the powder or particle products once a time. After the drying, there is no need for smashing and sorting, so as to reduce the operation procedures in the production and to enhance the product purity. The product particle diameters, looseness and water contents can be adjusted through changing the operation condition in a certain scope. It is very convenient to carry out the control and management.

水分蒸发曲线 Curve of Moisture Evaporation



技术参数 Technical parameters

项目item	参数parameter	型号model	5	25	50	150	200 ~ 5000
入口温度 inlet temperature(°C)			140 ~ 350 自控 automatic control				
出口温度 outlet temperature(°C)			80 ~ 90				
水份最大蒸发量 max. evaporated amount of moisture(kg/h)			5	25	50	150	200 ~ 5000
离心喷雾头传动形式 driving form of centrifugal nozzle			压缩空气传动 compressed air drive	机械传动 mechanical drive			
最高转速 revolution(r.p.m)			25000	18000	18000	15000	8000 ~ 15000
喷雾盘直径 diameter of atomizing disk(mm)			50	120	120	150	180 ~ 240
热源 heat source			电 electricity	蒸汽+电 steam+electricity	蒸汽+电、燃油、煤气、热风炉 steam+electricity, oil fuel, hot air furnace		
电加热最大功率 max. power of electric heater(kw)			9	36	72	99	
外形尺寸 (长×宽×高) overall dimensions (LWH)(m)			1.8×0.93×2.2	3×2.7×4.26	3.5×3.5×4.8	5.5×4×7	按实际情况确定 affirm it in accordance with practical conditions
干粉回收 recovery rate of dry powder(%)			≥95				

注：水份蒸发量与物料的特性及热风进、出口温度有关。其水份蒸发曲线见上图(供选型参考)，用户可根据当地能源情况选定加热方式，根据物料特性选择收尘方式。
Note: the evaporated amount of moisture is related to characteristics of raw material and outlet temperature of hot air.

YPG系列压力式喷雾(冷却)干燥机
YPG Series Pressure Spray(Congel) Dryer



概述 Descriptions

压力式喷雾干燥造粒机是采用压力式雾化器借助隔膜泵的压力将溶液或浆状的物料雾化成细微液滴，使表面积显著增大，经与热风进行充分热交换得以快速干燥(十几秒至几十秒)，从而得到粉体或细小颗粒产品的设备。

The liquid or paste raw material is sprayed into minute liquid drop by pressed sprayer draw assistance from pressure of isolute pump, and quickly drying through amply heat exchange.(10~90sec.) at last, the powder or small granule is finished.

特点 Features

- 干燥速度快，特别适用于热敏性物料。
- 所得产品为球状颗粒，粒度均匀，流动性、溶解性好，产品纯度高，质量好。
- 使用范围广，可进行热风干燥、造粒、也可以进行冷却造粒、喷雾结晶、喷雾反应等。
- 可配备细粉回送，再湿附聚系统，满足用户对物料粒径的要求。
- 操作简单稳定，控制方便，容易实现自动化作业，产品粒径、松密度、水份在一定范围内可以调节。
- The dry speed is fast and suitable for drying thermal sensitivity material particularly.
- 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.
- Its applied scope 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.
- Its operation is simple and stable and its control is simple and convenient and is easy to realize automatic operation.

应用 Applications

食品、医药、化工、染化、陶瓷、生化、农药、塑料等适用具有相应流动性的液体。

It is suitable for liquid of foodstuff, pharmaceutical, chemical industry, dyestuff, ceramics, agrochemicals, plastic and so on.

技术参数 Technical parameters

项目item	型号model	YPG-25	YPG-50	YPG-100	YPG-150	YPG-200	YPG-400
蒸发量 capacity of moisture(kg/h)		25	50	100	150	200	400
加热方式 style of heating		蒸汽+电加热补偿或燃油、煤气热风炉 Steam+electric+heat additional or oil, gas hot air furnace					
塔身直径 diameter of tower mm		1200	1400	1600	2400	2800	3600
外形尺寸 overall dimensions(m)		5×4×10	6×4×12	6×4×13	8×4.5×19	10×5×20	12×5×25

项目item	型号model	YPG II -36	YPG II -40	YPG II -45	YPG II -50	YPG II -56	YPG II -80
蒸发量 capacity of moisture(kg/h)		380	500	600	750	1000	2000
加热方式 style of heating		蒸汽+电加热补偿或燃油、煤气热风炉 Steam+electric+heat additional or oil, gas hot air furnace					
塔身直径 diameter of tower mm		1300	1800	2400	2600	2800	8000
外形尺寸 overall dimensions(m)		5×4×10	6×4×12	6×4×13	8×4.5×19	10×5×20	12×5×25

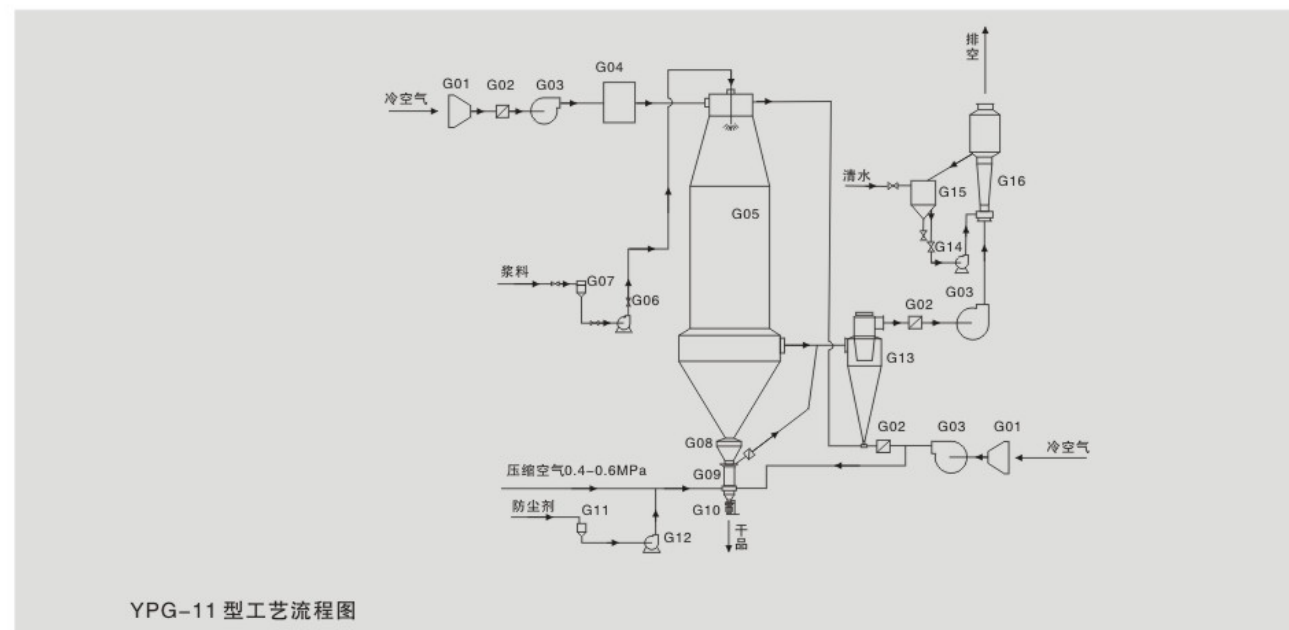
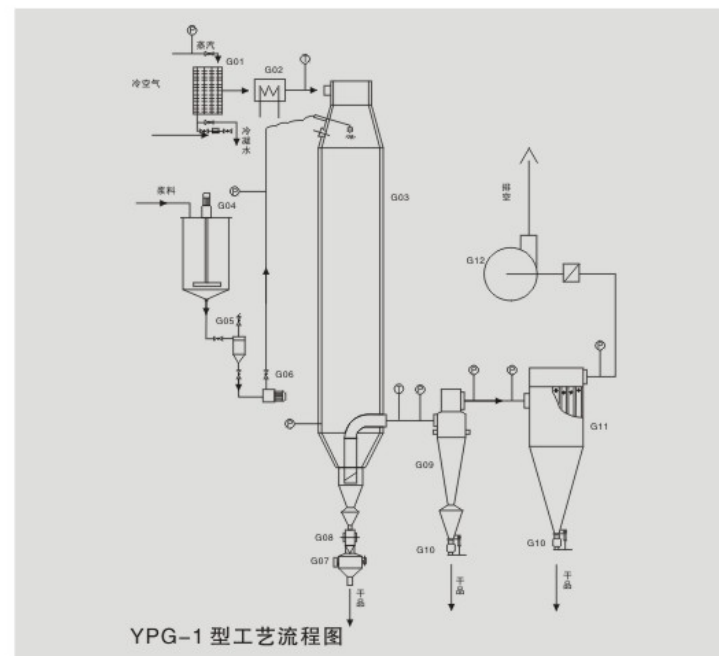
注：1、水份蒸发量与物料特性、蒸发温度相关，本表中以进风温度150~160℃计算。
2、用户可选用顺流、逆流、返粉等干燥方式，以达到需要的产品效果。
3、流程简图只作示意，请用户根据需要选购其中的组件。



YPG系列压力式喷雾(冷却)干燥机

YPG Series Pressure Spray(Congeval) Dryer

■ 工艺流程 Technological process



ZPG系列中药浸膏专用喷雾干燥机

ZPG Series Spray Dryer For Chinese Raditopnal Medicine Extract



■ 概述 Descriptions

中药浸膏专用喷雾干燥机是吸收国外技术开发的适用于熔点低、含糖高的中药产品的干燥机械，并具有不粘壁、物料不焦化、不易吸潮等特点。该装置根据干燥产品的特点和性质确定喷雾干燥的工艺条件，自动化程度高，操作方便，符合 GMP 要求，该装置的成功开发，解决了多年来许多熔点低、含糖高的中药产品不能喷雾干燥的技术难点，也是对喷雾干燥在中药制药中的应用技术研究的新发展。

Traditional Chinese medicine medicinal extract special-purpose to spray desiccator to absorb to suitable for point low, high in candy content traditional Chinese medicine dry machinery of product foreign technological development, is it glue wall, supplies coking, difficult to inhale such characteristics as the tide, etc. to have. This device confirms and sprays the dry process conditions according to characteristic and nature of the dry products, the automatic degree is high, easy to operate, accord with GMP demand, the success development of this device, solving low traditional Chinese medicine products high in candy content of wanting a lot of to melt in year more can't use and spray the dry technological difficult point, it is a new development of dry application technical research in traditional Chinese medicine pharmacy to spraying too.



■ 原理 Principle

中药浸膏高速离心式喷雾装置是离心式喷雾干燥技术在特定物料干燥中的应用，也是利用高速离心式雾化器使物料分散成细，与热空气充分接触，完成瞬间干燥，形成粉状成品的干燥装置。该干燥设备是专门用来解决中药浸膏和植物提取液的喷雾干燥机，它有效地解决了原LPG高速喷雾干燥机在中药浸膏干燥中出现的诸多问题，与原LPG离心式喷雾干燥机相比有以下特点：

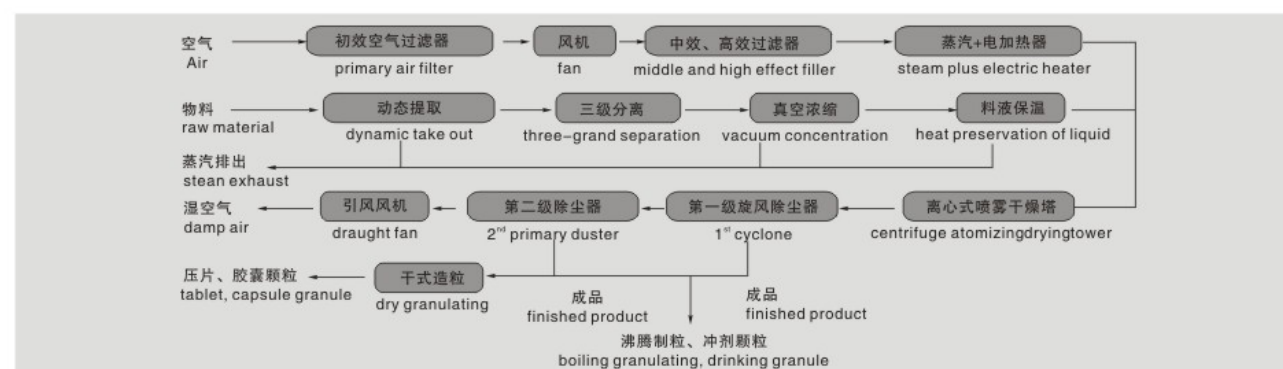
- 1、为防止物料产生粘壁设备设有空气扫壁、塔壁夹套冷却结构，有效杜绝产品的粘壁焦化。提高产品质量、收率。
- 2、特有成品风送系统，将干燥成品及时与系统内热湿空气分离，避免成品产生吸湿回潮结块的可能。
- 3、进入干燥机的空气采用三级空气净化，使进风达到30万级要求；
- 4、采用快开冲洗装置，适用于多品种生产要求；
- 5、物料收集采用两级旋风除尘装置或一级旋风除尘+湿式除尘器；
- 6、喷雾塔体积及配置根据物料性质适用性调整，使之更具实用性；
- 7、可选用PLC控制，程控系统屏幕显示；
- 8、整个干燥系统设计制作符合GMP规范要求；
- 9、用户在订货时根据物料特性可选择A型、B型、C型其中之一以达到设备与物料之间的最佳适应性。

High speed centrifuge atomizing apparatus for immersed ointment of traditional chinese medicine is an application of centrifuge atomizing technique ! special raw materials. It is an apparatus using high-speed centrifuge to make raw material distribute fog that cintacts with hot air fully and finish the dry momentarily and form powder finished product. The Special drier for immersed ointment of traditional chinese medicine is used to solve immersed ointment of traditional chinese medicine and extacted liquid of Plant. It solves the conditions existed in original LPG high-speed atomizing drier. These many problems will be solved. The new machine have nine features as down;

- 1.In order to prevent to produce adhering wall Phenomenon, the equipment has air cleaning wall and jacket cooling structure at tower wall. It is effective to eliminate adhering wall and coking and improve the quality of product and yeild.
- 2.Special blowing system of finished product:it can separate dried finished product and wet air inside the system in time and avoid the possibility for finished product absorbing damp and agglomeration.
- 3.Air to enter into the drier adapts three-level air purification. It makes the fed air reach to the requirement of 300000 grades.
- 4.Adapt quick open washing device.Therefore it is suitable for productive requirement of various varieties.
- 5.The collection of material adapts two-grade cyclone dust catching device and wet type dust catcher.
- 6.The volume and configuration of atomizing tower should be adjusted suitably in accordance with the property of material in order to make it have more applicability.
- 7.Can choose PLC control and program control system screen to display.
- 8.The design and manufacture of whole drying system conforms to the requirement of GMP.
- 9.When order, customer may choose A type, Btypeor Ctype in accordance with the property of material in order to reach best applicability between equipment and material.



■ 工艺流程 Technological proccess

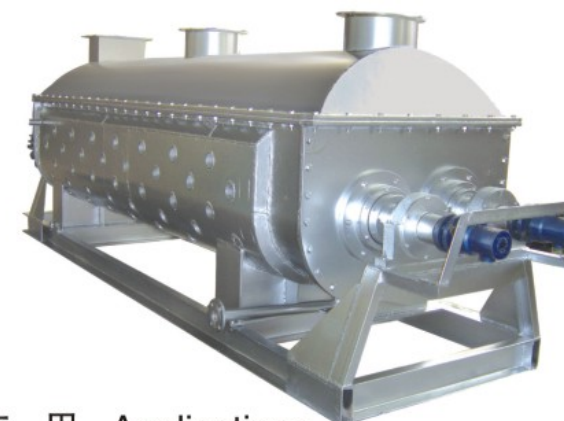


■ 技术参数 Technical parameters

型号 spec		ZPG-25	ZPG-50	ZPG-80	ZPG-100	ZPG-150	ZPG-200	ZPG-300
水份蒸发量 evaporation capacity(kg/h)		25	50	80	100	150	200	300
料液处理量 process amount of material liquid(kg/h)		25-34	50-68	80-108	100-135	150-203	200-270	300-406
成品含量 output of finished product(kg/h)		4.8-7.2	9.2-14	14.8-22.4	18.4-28	24-42	36.8-56.4	55-85
湿物料含固量 solid content of material liquid(%)		18-25						
成品含水率 moisture content of finished product(%)		3-5						
电功率 electric power(kw)		63	99	132	153	204	246	330
加热源 heat source		蒸汽加热 Steam plus electricity						
产品捕集方式及效率 collecting method of product and its efficiency		两级旋风除尘器或一级旋风除尘器及一级湿式除尘器≥98% Two-grade cyclone or one-grade cyclone and one-grade web-method dedusted of 98%						
自控仪表 automatic control meters and instruments		热风温度及排风温度指标，自动调节温控仪 indicator of not air and exhaust air temperature						
进风温度 temperature of air inlet(℃)		150-200						
出风温度 temperature of air outlet(℃)		80-100						
外形尺寸 overall diimensions(mm)	长L	7000	8000	9800	11000	12200	14100	15000
	宽W	4000	5000	5700	6200	7000	7800	9000
	高H	5200	6500	7600	8100	9000	9850	11100

干燥、混合、制粒、粉碎设备优质供应商
Drying, Mixing, Granulating, Crushing equipment of high quality suppliers

KJG Series Oar Dryer



应用 Applications

桨叶干燥机已成功地用于食品、化工、石化、染料、工业污泥等领域。设备传热、冷却、搅拌的特性使之可以完成以下单元操作：煅烧（低温）、冷却、干燥（溶剂回收）、加热（融化）、反应和灭菌。搅拌桨叶同时又是传热面，使单位有效容积内传热面积增大，缩短了处理时间。模型桨叶传热面又具有自清污功能。压缩—膨胀搅拌功能使物料混和均匀。物料沿轴向成“活塞流”运动，在轴向区间内，物料的温度、湿度、混合度梯度很小。

●用导热油做热介质，桨叶干燥机可完成低温煅烧工作。如：二水硫酸钙（ $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ ）煅烧转化为半水硫酸钙（ $\text{Ca}_2\text{SO}_4 \cdot 1/2\text{H}_2\text{O}$ ）。碳酸氢钠（ NaHCO_3 ）经煅烧转化为纯碱（ Na_2CO_3 ）等。

● 通入冷却介质，如水、冷却盐水等即可用来冷却。如：使用于纯碱行业的桨叶式凉碱机，取代老式的空气冷却凉碱机，节省了能源及尾气处理设备，降低了操作费用，还可用于钛白粉、镍铁合金粉及各种粉粒状物料的冷却。在单台机里可以将物料从1000℃冷却到小于40℃。

●干燥:设备最主要的功能,不使用热空气,使溶剂回收、能源消耗、环境控制处于易处理的理想状态。对需回收溶剂、易燃易爆氧化热敏性物料尤为适应。已广泛用于精细化工、石化、染料行业。

●轴向区间内, 温度、湿度、混合度的均匀性, 使得设备可用来加热或融化, 或进行一些固体物料反应。在复合肥及变性淀粉行业均已成功使用。柴叶干燥机可用来对食物和面粉进行灭菌处理。单位有效容积内大的加热面积, 很快就将物料加热到灭菌温度, 避免了长时间加热而改变物料品质。

■ 特点 Features

●**桨叶干燥机能耗低：**由于间接加热，没有大量携带空气带走热量，干燥器外壁又设置保温层，对桨状物料，蒸发1kg水仅需1.22kg水蒸汽。

●柴叶干燥机系统造价低：单位有效容积内拥有巨大的传热面，就缩短了处理时间，设备尺寸变小。就极大地减少了建筑面积及建筑空间。

●处理物料范围广：使用不同热介质，既可处理热敏性物料，又可处理需高温处理的物料。常用介质有：水蒸汽、导热油、热水、冷却水等。既可连续操作也可间歇操作，可在很多领域应用。

●环境污染小：不使用携带空气，粉尘物料夹带很少。物料溶剂蒸发量很小，便于处理。对有污染的物料或需回收溶剂的工况，可采用闭路循环。

●操作费用低:该设备正常操作,仅1~2人/天。低速搅拌及合理的结构。磨损量小,维修费用很低。

●操作稳定：由于楔型桨叶特殊的压缩——膨胀搅拌作用，使物料颗粒充分与传热面接触，在轴向区间内，物料的温度、湿度、混合度梯度很小，从而保证了工艺的稳定性。

Blade dryer has been successfully used in food, chemical, petrochemical, dye, industrial sludge and other fields. Heating, cooling, mixing features make it to complete the following unit operations: calcination (low temperature), cooling, drying (solvent recovery), heating (melting), response and sterilization. Mixing blades at the same time the heat transfer surface, the effective volume per unit area of heat transfer increases, reducing the processing time. Heat transfer surfaces in wedge-shaped blades with self-cleaning function. Compression – Expansion mixing features make the material mixed uniformly. Material along the axis into a "plug flow" movement, in the axial zone, the material temperature, humidity, mixing a very small degree of gradient.

- Conducting oil to do with the heat medium, blade dryer to complete the work of low-temperature calcination. Such as: calcium sulfate dehydrate ($\text{Ca}_2\text{SO}_4 \cdot 2\text{H}_2\text{O}$) calcined into calcium sulfate hemihydrate ($\text{Ca}_2\text{SO}_4 \cdot 1/2\text{H}_2\text{O}$). Sodium bicarbonate (NaHCO_3) into calcined soda (Na_2CO_3) and so on.

● Pass into the cooling medium, such as water, salt, etc. can be used to cooling. Such as: use of soda ash industry in blade-type cooler base machine to replace the old air-cooled cooler base machine, saving energy and exhaust gas processing equipment, lower operating costs, but also for titanium, nickel alloy powder and all kinds of powder granular materials cooling. On a single machine where the material can be cooled from 1000 °C to less than 40 °C.

- Dry, the main function of equipment, do not use hot air to solvent recovery, energy consumption, environmental control is easy to deal with the ideal state. On the need to recover solvents, heat-sensitive materials, particularly flammable adapt easily oxidized. Has been widely used in fine chemical, petrochemical, dye industry.

● Axial range, temperature, humidity, mixing degree of uniformity, so equipment can be used to heating or melting, or some solid material response. In the compound and modified starch industries have been successfully used. Blade dryer can be used to carry out sterilization of food and flour. Unit effective volume with a large heating area, will heat the material to sterilization temperature, to avoid prolonged heating change the quality of materials.

● Blade dryer energy consumption is low: as indirect heating, the air does not carry away a lot of heat insulation of dryer wall has, on the slurry material, evaporation of 1kg of water vapor only 1.22kg of steam.

- Blade dryer system costs low: within the effective volume of units have a large heat transfer surface, the reduced processing time, equipment size becomes smaller. Would greatly reduce the building area and building space.

- Dealing with a wide range of materials: using a different hot medium, able to deal with heat-sensitive materials can be heat-treated materials handling. Commonly used media are: water, steam, oil, hot water, cooling water. Continuous operation can also be intermittent operation can be applied in many fields.

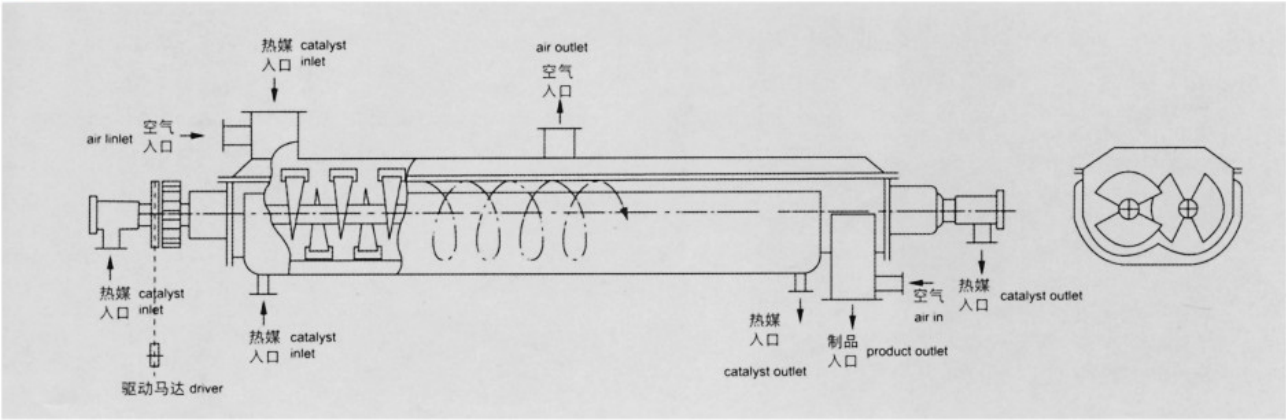
● Environmental pollution: do not carry air, dust entrainment few materials. Solvent evaporation of material is very small, easy to handle. To have contaminated materials or be recycled solvent conditions, can be used closed circuit.

- Low operating cost: the equipment normal operation, 1-2 persons/day. Low speed and reasonable structure. Wear a small, very low maintenance costs.

- **Operation stability:** As the wedge-shaped blades of special compression – expansion of stirring, so that material particles sufficient surface contact with the heat transfer in the axial zone, the material temperature, humidity, mixed density gradient is very small, thus ensuring the process stability.

KJG系列桨叶干燥机
KJG Series Oar Dryer

结构简图 Sketch of structure



技术参数 Technical parameters

型号model	项目item	KJG-3	KJG-9	KJG-13	KJG-18	KJG-29	KJG-41	KJG-52	KJG-68	KJG-81	KJG-95	KJG-110
传热面积m² Heat transferring area m²		3	9	13	18	29	41	52	68	81	95	110
有效容积m³ effective volume m³		0.06	0.32	0.59	1.09	1.85	2.8	3.96	5.21	6.43	8.07	9.46
转速范围r.m.p range of rotating speed r.m.p.		15-30	10-25	10-25	10-20	10-20	10-20	10-20	10-20	5-15	5-15	5-10
功率kw power kw		2.2	4	5.5	7.5	11	15	30	45	55	75	95
器体宽A mm width of vessel mm		306	584	762	940	1118	1296	1474	1652	1828	2032	2210
总宽B mm total width mm		736	841	1066	1320	1474	1676	1854	2134	1186	2438	2668
器体长C mm length of vessel mm		1956	2820	3048	3328	4114	4724	5258	5842	6020	6124	6122
总长D mm total length mm		2972	4876	5486	5918	6808	7570	8306	9296	9678	9704	9880
进出料距E mm distance of material inlet & outlet mm		1752	2540	2768	3048	3810	4420	4954	5384	5562	5664	5664
中心距F mm height of center mm		380	380	534	610	762	915	1066	1220	1220	1220	1220
总高G mm total height mm		762	838	1092	1270	1524	1778	2032	2362	2464	2566	2668
进汽口N (寸) steam inlet "N"(inch)		3/4	3/4	1	1	1	1	11/2	11/2	11/2	11/2	2
进水口O (寸) water outlet "O"(inch)		3/4	3/4	1	1	1	1	11/2	11/2	11/2	11/2	2

注：水份蒸发量与物料的特性及热风进、出口温度有关。随着产品不断更新，有关参数变更，恕不预先通知。
Notes:the evaporated amount of water its related to the characteristics of raw materials and the temperature of air in and air out. With renew products unceasingly, the related parameters will be exchanged, it does not announce in advance, pardon !

PLG系列盘式连续干燥机
PLG Series Continual Plate Dryer



概述 Descriptions

盘式连续干燥机是一种高效的传导型连续干燥设备，其独特的结构和工作原理决定了它具有热效率高、能耗低、占地面积小、配置简单、操作控制方便、操作环境好等特点。广泛适用于化工、医药、农药、食品、饲料、农副产品加工等行业的干燥作业。在各行业使用实践中深受好评。可分为常压、密闭、真空三大类型；1200、1500、2200、3000四种规格；A（碳钢）、B（接触物料部分不锈钢）、C在B的基础上、增加蒸汽管路、主轴及支架为不锈钢，筒体和顶盖内衬不锈钢）三种材质，干燥面积4~180m²，共几百种型号的系列产品，并能提供与之相配套的辅助设备，可满足用户对各种物料进行干燥的需要。

PLG Series Continual Plate Dryer Descriptions Plate dryer is a kind of high effective conducting and continuous drying equipment. Its unique structure and operating principle determine that it has advantages of high heat efficiency, low energy consumption, small occupying area, simple configuration, easy operating and control as well as friendly operating environment etc. It can be widely used in drying process in the fields of chemical industry. Pharmaceuticals, agricultural chemicals, foodstuff, fodder, process of agricultural and sideline products etc, and is well received by various sectors in their practical usage. Now there are three big categories, named normal pressure, closed and vacuum styles; four sizes of 1200, 1500, 2200 and 3000; and three kinds of materials, namely A(carbon steel), B(stainless steel used for those all parts where materials are contacted) and C(on the basis of B to add stainless steel materials for vapor pipes, main shaft and support, and stainless steel linings for cylinder body and top cover). With a drying area being from 4 to 180 square metres, now we have hundreds of models of series products and various kinds of auxiliary devices available to meet requirements of drying materials for customers.



特点 Features

(一) 调控容易、适用性强

- 1.通过调整料层厚度、主轴转速、耙臂数量、耙叶型式和尺寸可使干燥过程达到最佳。
- 2.每层干燥盘皆可单独通入热介质或冷介质、对物料进行加热或冷却，物料温度控制准确、容易。
- 3.物料的停留时间可以精确调整。
- 4.物料流向单一、无返混现象、干燥均匀、质量稳定、不需再混合。

(二) 操作简单、容易

- 1.干燥器的开车、停车操作非常简单。
- 2.停止进料后，传送物料的耙叶能很快地排空干燥器内的物料。
- 3.通过特殊的大规格检视门的视镜，可以对设备内进行很仔细的清洗和观察。

(三) 能耗低

- 1.料层很薄，主轴转速低，物料传送系统需要的功率小、电耗少。
- 2.以传导热进行干燥，热效率高，能量消耗低。

(四) 操作环境好，可回收溶剂，粉尘排放符合要求

- 1.常压型：由于设备内气流速度低，而且设备内湿度分布上高下低，粉尘很难浮到设备顶部，所以顶部排湿口排出的尾气中几乎不含有粉尘。
- 2.密闭型：配备溶剂回收装置，可方便地回收在湿气体中的有机溶剂。溶剂回收装置简单，回收率高，对于易燃、易爆、有毒和易氧化的物料，可用氮气作为载湿气体进行闭路循环，使之安全操作。特别适用于易燃、易爆、有毒物料的干燥。
- 3.真空型：在真空状态下操作的盘式干燥器，特别适用于热敏性物料的干燥。

(五) 安装方便，占地面积小

- 1.干燥器整体出厂，整体运输，只需吊装就位，安装定位非常容易。
- 2.由于干燥盘层式布置、立式安装，即使干燥面积很大，占地面积也很小。

- (1) Easy control, wide application
1. Regulate thickness of materials, rotating speed of main shaft, number of harrow's arm, style of and sizes harrows achieve best drying process.
2. Each layer of drying plate can be fed with hot or cold media individually to heat or cold materials and make temperature control accurate and easy.
3. Dwell time of materials can be accurately adjusted.
4. Single flowing direction of materials without return flowing and mixing, uniform drying and stable quality, no re-mixing is required.

- (2) Easy and simple operation
1. Start stop of dryer is quite simple
2. After material feeding is stopped, they can be easily discharged out of the dryer by harrows.
3. Careful cleaning and observation can be carried inside the equipment through large-scale viewing window.
(3) Low energy consumption
1. Thin layer of materials, low speed of main shaft, small power and energy required for conveying system of materials.
2. Dry by conducting heat so it has high heating efficiency and low energy consumption.
(4) Good operation environment, solvent can be recovered and powder discharge meet the requirements of exhaust.

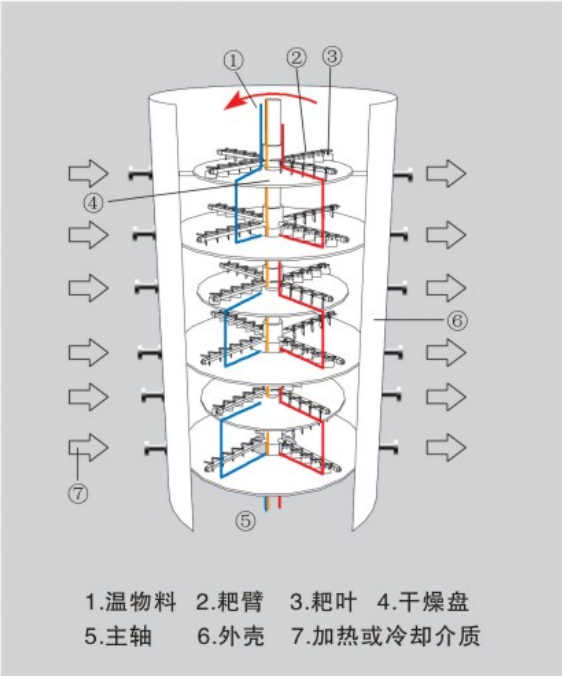
1. Normal pressure type: as low speed of air flow inside the equipment and moisture being high in upper part and low in lower part, dust powder couldn't float to the equipment, so there is almost no dust powder in tail gas discharged from the moist discharge port on the top.
2. Closed type: equipped with solvent recovery device that can recover organic solvent easily from moist-carrier gas. The solvent recovery device has simple structure and high recovery rate, and nitrogen can be used as moist-carrier gas in closed circulation for those subject to burning, explosion and oxidation, and poisonous materials in order for safe operation. Especially suitable for drying of flammable, explosive and poisonous materials.
3. Vacuum type: if the plate dryer is operating under vacuum state, it is particularly suitable for drying heat sensitive materials.
(5) Easy installation and small occupying area.
1. As the dryer is in a whole for delivery, it is quite easy to install and fix at site only by hoisting.
2. As drying plates being arranged by layers and installed vertically, it takes a small occupying area though drying area is large.

PLG系列盘式连续干燥机
PLG Series Continual Plate Dryer

技术特性 Features of technology

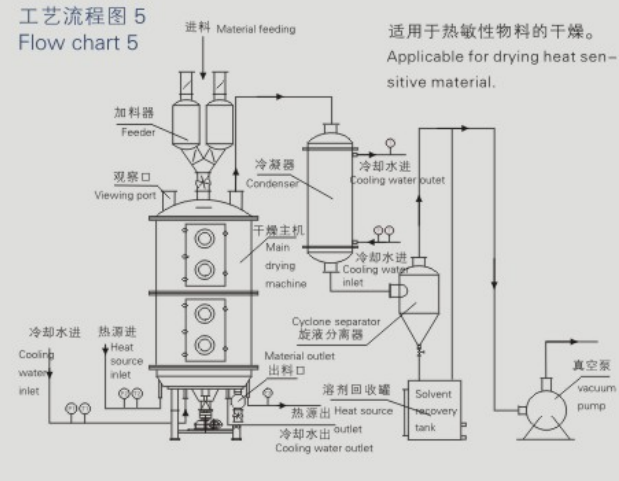
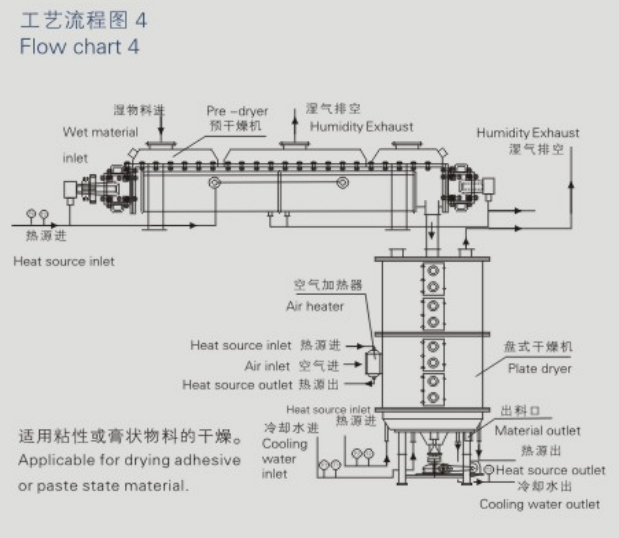
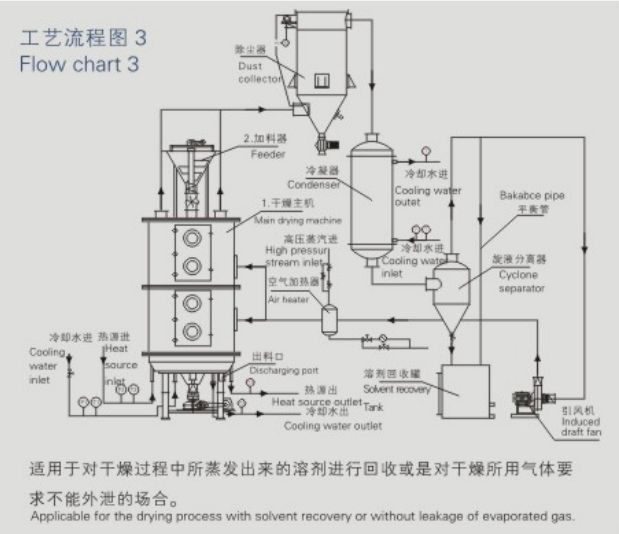
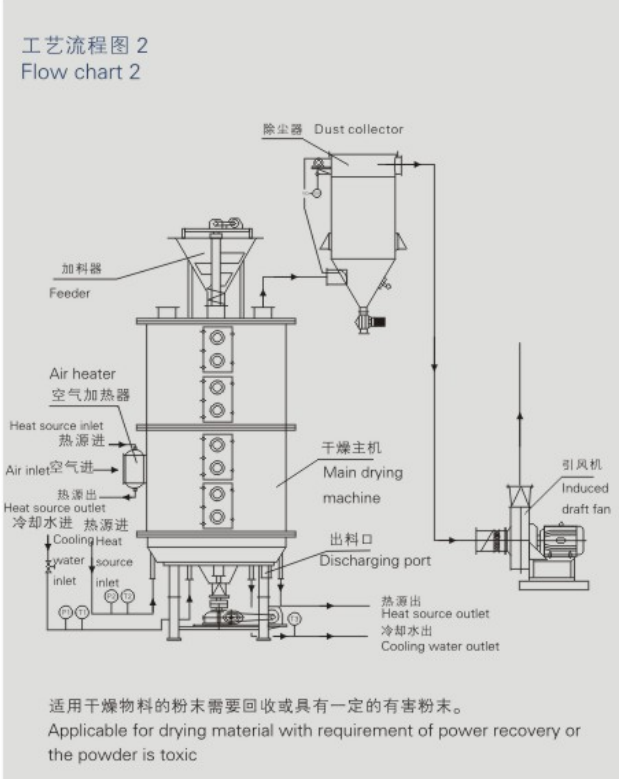
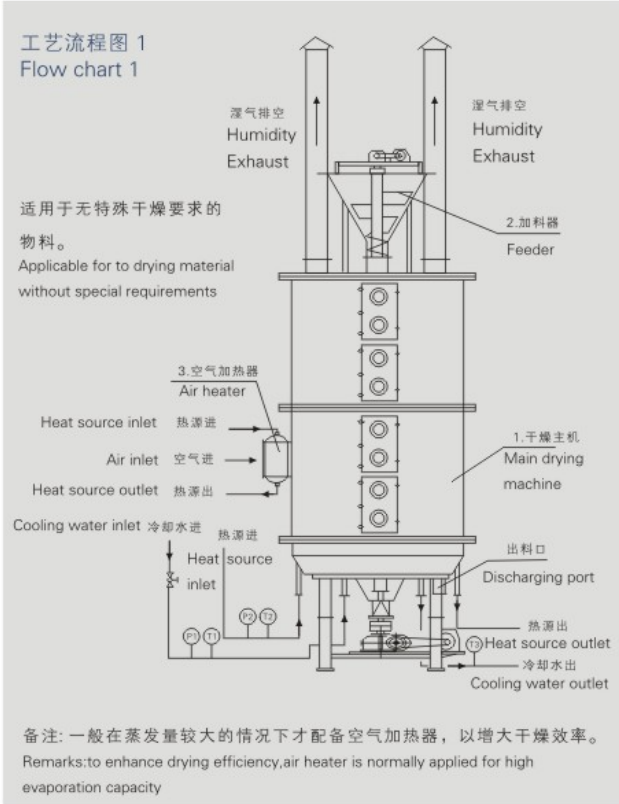
- (一) 干燥盘
- 1.设计压力：一般为0.4MPa，最大可达1.6MPa。
 - 2.最高使用压力：一般≤0.4MPa，最高可达1.6MPa。
 - 3.加热介质：蒸汽、热水、导热油、干燥盘温度100℃时使用热水加热，100℃~150℃时用≤0.4MPa饱和水蒸汽或者过热蒸汽加热，150℃~320℃时用导热油加热，>320℃时可采用电、导热油、熔盐等方式加热。
- (二) 物料传送系统
- 1.主轴转速：1~10转分，电磁或变频无极调速。
 - 2.耙臂：每层干燥盘上有2~8支固定在主轴上的耙臂。
 - 3.耙叶：绞接在耙臂上，能随盘面上下浮动保持接触，有多种形式。
 - 4.碾滚：对易结块和需要粉碎的物料，在适当位置加碾滚，可以强化传热和干燥过程。
- (三) 壳体
- 有常压、密闭、真空三种型式
- 1.常压型：圆筒或八棱柱型，有整体和对开两种结构。加热介质进出口主管道可以在壳体内，也可以在壳体外。
 - 2.密闭型：圆筒型壳体，能承受5Kpa内压，加热介质进出口主管道可以在壳体内，也可以在壳体外。
 - 3.真空型：圆筒型壳体，设计压力为0.1Mpa，加热介质进出口主管道在壳体内。
- (四) 空气加热器
- 一般在蒸发量较大的情况下使用，以增强干燥效率。

1. Drying plate
- (1). Designing pressure: general is 0.4Mpa, Max. can reach 1.6 Mpa.
 - (2). Work pressure: general is less then 0.4Mpa, and Max. can reach 1.6 Mpa.
 - (3). Heating medium: steam, hot water, oil. When the drying plates' temperature is 100℃, hot water can be used; when 100℃~150℃, it will be saturated water steam ≤0.4Mpa or steam-gas, and when 150℃~320℃, it will be oil; when >320℃ it will be heated by electric, oil of fused salt.
2. Material transmission system
- (1). headstock revolution: 1~10 rpm, electromagnetism of transducer timing.
 - (2). harrow arm: There are 2 to 8 pieces arm that be fixed on the headstock on the every layers.
 - (3). Harrow's blade: Surrounding the harrow's blade, float together with the surface of the plate to keep contact. There're various of types.
 - (4). Roller: for the products easily agglomerate, or with the requirements of grinding, the heat transfer and drying process might be reinforced by placing roller(s) at the appropriate place(s).
3. Shell There're three types for option: normal pressure, sealed and vacuum
- (1). Normal pressure:
 - (2). Sealed: Cylindrical shell, could bear the interior pressure of 5KPa, the main ducts of the inlet and outlet of heating media might be inside of the shell or outside.
 - (3). Vacuum: Cylindrical shell, could bear the exterior pressure of 0.1MPa. The main ducts of inlet and outlet is inside of the shell.
4. Air heater:
- Normal for the application of big evaporation capacity to increase drying efficiency.



PLG系列盘式连续干燥机
PLG Series Continual Plate Dryer

流程图 Flow chart



PLG系列盘式连续干燥机
PLG Series Continual Plate Dryer

原理 Principle

湿物料自加料器连续地加到干燥器上部第一层干燥盘上，带有耙叶的耙臂作回转运动，使耙臂连续地翻抄物料。物料沿指数螺旋线流过干燥盘表面，在小干燥盘上的物料被移送到外缘，在大干燥盘上的物料向里移动并从中间落料口落入下一层小干燥盘中。大小干燥盘上下交替排列，物料得以连续地流过整个干燥器。中空干燥盘内通入加热介质，加热介质形式有饱和蒸汽、热水和导热油，加热介质由干燥盘的一端进入，从另一端导出。已干物料从最后一层干燥盘落到壳体的底层，最后被耙叶移送到出料口排出。湿汽从物料逸出，由设在顶盖上的排湿口排出，真空型盘式干燥器的湿汽由设在顶盖上的真空泵口抽出。从底层排出的干物料可直接包装。通过配加翅片加热器、溶剂回收冷凝器、袋式除尘器、干料返混机构、引风机等辅机，可提高其干燥的生产能力，干燥膏糊状和热敏性物料，可方便地回收溶剂，并能进行热解和反应操作。



Wet materials are fed continuously to the first drying layer on the top of the dryer. They will be turned and stirred by rakes when the rake arm rotates and drop down to the outer edge of the large drying plate along the exponential helical line. On the small drying plate they will be moved to its outer edge and drop down to the outer edge of the large drying plate underneath, and will be moved inward and drop down from its central hole to the small drying plate on the next layer. Both small and large drying plates are arranged alternately so as materials can go through the whole dryer continuously. The heating media, which could be in forms of saturated steam, hot water or heat conducting oil will be led into hollow drying plates from one end to the other end of the dryer. The dried materials will drop from the last layer of the drying plate to the bottom layer of the shell body, and will be moved by rakes to the discharge port. The moisture escapes from materials and will be removed from the moist discharge port on the top cover, or sucked out by the vacuum pump on the top cover for vacuum-type plate dryer. The dried materials discharged from the bottom layer can be packed directly. The drying capability can be raised up if equipped with supplementary devices such as finned heater, condenser for solvent retrieval, bag dust remover, return and mix mechanism for dried materials and drawing fan etc. Solvent in those dried paste and heat sensitive materials can be easily retrieved, and thermal decomposition and reaction can be also carried out.

技术参数 Technical parameters

规格 Type	外径 Diameter (mm)	高度 High (mm)	干燥面积 Area of dry (m ²)	功率 Power (Kw)
1200/4	1850	2608	3.3	1.1
1200/6		3028	4.9	
1200/8		3448	6.6	
1200/10		3868	8.2	
1200/12	2100	4288	9.9	1.5
1500/6		3022	8.0	
1500/8		3442	10.7	
1500/10		3862	13.4	
1500/12	2900	4282	16.1	2.2
1500/14		4702	18.8	
1500/16		5122	21.5	
2200/6		3262	18.5	3.0
2200/8	2900	3682	24.6	
2200/10		4102	30.8	
2200/12		4522	36.9	
2200/14	2900	4942	43.1	4.0
2200/16		5362	49.3	

规格 Type	外径 Diameter (mm)	高度 High (mm)	干燥面积 Area of dry (m ²)	功率 Power (Kw)
2200/18	2900	5782	55.4	5.5
2200/20		6202	61.6	
2200/22		6622	67.7	
2200/24		7042	73.9	
2200/26	3800	7462	80.0	7.5
3000/8		4050	48	
3000/10		4650	60	
3000/12		5250	72	
3000/14	3800	5850	84	11
3000/16		6450	96	
3000/18		7050	108	
3000/20		7650	120	
3000/22	3800	8250	132	13
3000/24		8850	144	
3000/26		9450	156	
3000/28		10050	168	
3000/30	3800	10650	180	15

HZG系列回转滚筒干燥机
HZG Series Rotating Cylinder Dryer



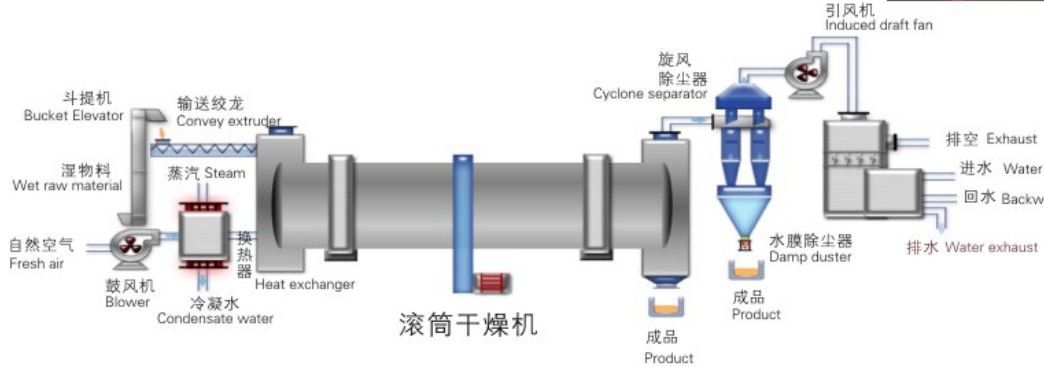
概述 Descriptions

湿物料从干燥机一端投入后，在内筒均匀的抄板器翻动下，物料在干燥器内均匀分布与分散，且与并流(逆流)的热空气充分接触，加快了干燥传热、传质推动力。在干燥过程中，物料在带有倾斜的抄板和热气流作用下，可调控地运动至干燥机另一端星形卸料阀排出成品。

When the damp raw material is fed from one terminal, it is turned over through blades that are distributed inside the cylinder and will be distributed uniformly in the drier and contact fully with the countercurrent hot air. In this way, the process of heat conduction is increased. During the period of dry, under the effect of incine blades and hot air stream, raw material can be moved to the star section of drier and discharged from discharging valve.

应用 Applications

- 适用于化工、矿山、冶金等行业大颗粒，比重大物料干燥，如：矿石、高炉矿渣、煤、金属粉末、磷肥、硫铵。
- 对有特殊要求的粉状、颗粒状物料的干燥，如：HP发泡剂、酒糟渣、轻质碳酸钙、活性白土、磁粉、石墨、药渣。
- It is suitable for drying the following raw materials. They are granules with heavy specific gravity in chemical industry, mine industry, metallurgy industry such as ore, slag, coal, metallic powder, phosphorus fertilizer, ammonia sulfate.
- Moreover for raw materials that are granules with special requirements, such as HP vesicant, less, light calcium carbonate, active white earth, magnetic powder, graphite, lag of medicine
- Raw materials that need low temperature and in batch continuously.



技术参数 Technical parameters

型号model	直接加热顺流式 direct heating clockwise flow spec	直接加热顺流式 direct heating counterclockwise flow spec	直接加热逆流式 heat directly countercurrent spec	直接加热逆流式 heat directly countercurrent spec	复合加热 complex heat	复合加热 complex heat
物料种类 kinds of raw material	矿石 ore	HP发泡剂 vesicant	高炉矿渣 slag of blast furnace	硫铵 ammonium sulphate	磷肥 phosphorus fertilizer	煤 coal
处理量 amount to be treated(Kg/h)	1000	466	15000	20000	12000	5000
初含水量 primary moisture(%)	30	13	6	1.5	5	6.5
终含水量 final moisture(%)	15	0.3	1	0.1	0.1	0.1
平均粒径 average diameter(mm)	6.5	0.05	4.7	0.5-0.7	0.5	5
物料堆积密度 bulk density of rawmaterial kg/m ³	770	800	1890	1100	1500	750
热风温度 amount of hot air (m ³ /kg)	39000	5400	10750	9800	6500	16000
入口空气温度 temperature of air at inlet(°C)	600	165	500	180	650	570
物料出口温度 temperature of raw material at outlet(°C)		42	100	70	80	75
加热方式 way of heating	煤气 gas	蒸气式电加热 electric heating	重油 heavy oil	燃煤热风炉 coal fuel hot air furnace	重油 heavy oil	重油 heavy oil
装料系数 loading efficiency(%)		6.3	7	7.5	7.8	18
转速 revolution(r.p.m)	4	4	3.5	3	4	2
倾斜度 gradient(m/m)	0.04	0.005	0.03	0.05	0.05	0.043
抄板数目 quantity of stirring-up rake	12	24	12	22	内筒外筒8外筒内面16 outer of inner cylinder8 inner of outer cylinder16	6 12
干燥器直径 diameter of dryer(m)	2.0	1.5	2	2.3	外筒2.4内筒0.84 outer cylinder2.4 inner cylinder0.84	外筒2.4内筒0.95 outer cylinder2.4 inner cylinder0.95
干燥器长度 length of dryer(m)	20	12	17	15	10	16
驱动功率 driving power(kw)	22	7.5	15	11	11	15

FL系列沸腾制粒干燥机
FL Series Fluidized Granulator

应用 Applications

- 制药工业中的造粒：片剂颗粒、冲剂颗粒、胶囊剂颗粒。
 - 食品工业的造粒：可可、咖啡、奶粉、颗粒果汁、调味品等。
 - 其他行业的造粒：农药、饲料、化肥、颜料、染料化工等。
 - 粉状、颗粒、块状物料的干燥。
 - 包衣：颗粒、丸剂保护层、备色、缓释、薄膜、肠溶包衣等。
- Pharmaceutical industry: tablet, capsule, low sugar or no sugar granule of chinese medicine.
 - Foodstuff: cocoa, coffee, milkpowder, juice of granulate, flavoring and so on.
 - Other industries: pesticide, feed chemical fertilizer, pigment, dyestuff and so on.
 - Pharmaceutical industry: tablet.

特点 Features

- 通过粉体造粒，改善流动性，减少粉尘飞扬；
 - 通过粉体造粒改善其溶解性能；
 - 混合、制粒、干燥在一机内完成一步法制粒；
 - 采用抗静电滤布，设备操作安全；
 - 设置压力泄放孔，一旦发生爆炸，设备人员不受伤害；
 - 设备无死角，装卸料轻便快速，冲洗干净，满足GMP规范。
- Because of powder Granulation, the fluidity is improved and the dust is reduced;
 - Because of powder Granulation, its solving property is improved;
 - The mixing, Granulation and drying can be completed in one step inside the machine;
 - The operation of equipment is safe because the anti static filtering cloth is adapted;
 - The operating personnel can not be damaged if explosion take place because there is releasing hole;
 - The equipment has no dead corner. Therefore the loading and unloading are quick and light and clean. It can meet the requirements of GMP.

原理 Principle

物料粉末粒子，在原料容器（流化床）中呈环形流化状态，受到经过净化后的加热空气预热和混合，将粘合剂溶液雾化喷入，使若干粒子聚集成含有粘合剂的团粒，由于热空气对物料的不断干燥，使团粒中水分蒸发，粘合剂凝固，此过程不断重复进行，形成理想的、均匀的多微孔球状颗粒。

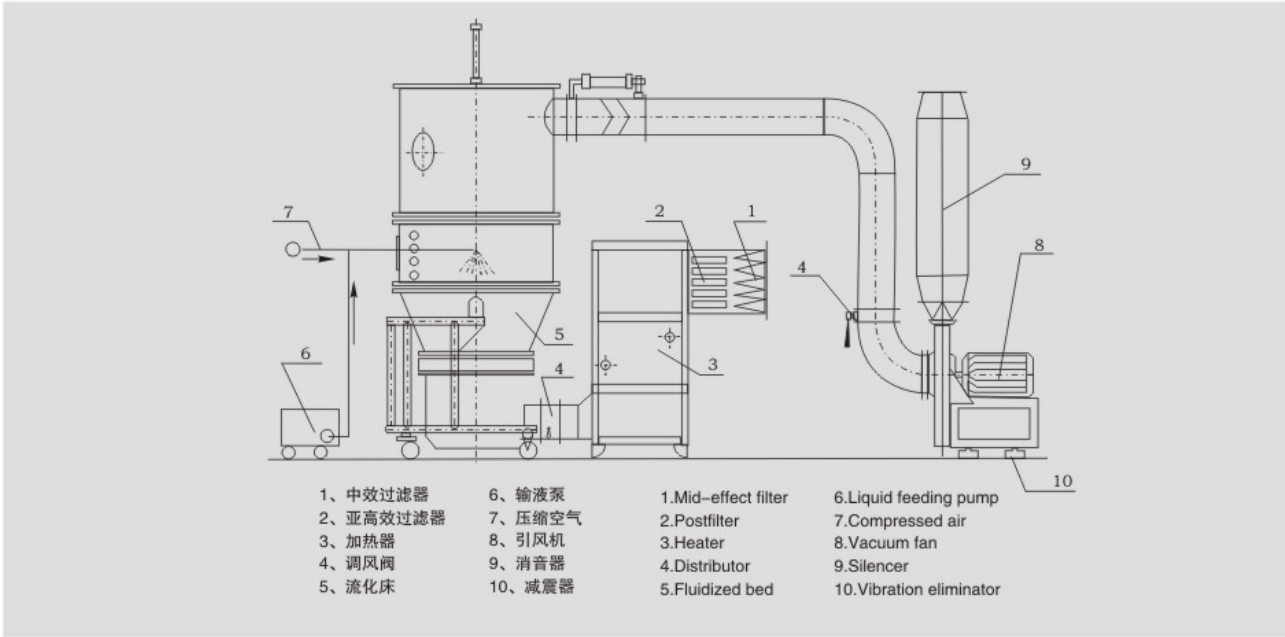
The powder grannle in the container (fluidization)appear in the state of fluidization. It is preheated and mixed with chen and heated air. At the same time the solution of adhesive solvent is fogged and sprayed into the container. It makes the some particles become granulating that contains adhesive.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



FL系列沸腾制粒干燥机
FL Series Fluidized Granulator



结构示意图 Skech of oven



技术参数 Technical parameters

项目Item		单位Unit	机 型 type									
			3	5	15	30	60	120	200	300	500	
原料容器 Container	容量Volume	L	12	22	45	100	220	420	670	1000	1500	
	直径Diameter	mm	300	400	550	700	1000	1200	1400	1600	1800	
生产能力 Capability	最小Min	Kg	1.5	4	10	15	30	80	100	150	250	
	最大Max	Kg	4.5	6	20	45	90	160	300	450	750	
风机Fan	风量Capacity	m³/h	1000	1200	1400	1800	3000	4500	6000	7000	8000	
	风压Pressure	mmH₂O	375	375	480	480	950	950	950	950	950	
	功率Power	kw	3	4	5.5	7.5	11	18.5	22	30	45	
蒸汽消耗量Steam expenditure		Kg/h	15	23	42	70	141	211	282	366	451	
压缩空气耗量Compressed air expenditure		m³/min	0.9	0.9	0.9	0.9	1.0	1.0	1.1	1.5	1.5	
主机重量Weight of the main body		Kg	500	700	900	1000	1100	1300	1500	1800	2000	
蒸汽压力Steam pressure		Mpa	0.3 ~ 0.6									
温度Temperature		℃	室温~120℃范围内可调节 (adjustable at the range from room temperature to 120℃)									
作业时间Working time		min	随物料特性而定45 ~ 90 (decided in accordance with the proplerties of raw materials)									
物料收得率Field		%	≥ 99									
噪声Noise		dB(A)	风机与主机隔离安装, 噪声≤75dB(A)(When installation,main machine is separated from fan)									
主机外型尺寸Size(L × W × H)		m	1.0×0.6 ×2.1	1.2×0.7 ×2.1	1.25×0.9 ×2.5	1.6×1.1 ×2.5	1.85×1.4 ×3	2.2×1.65 ×3.3	2.34×1.7 ×3.8	2.8×2.0 ×4.0	3×2.25 ×4.4	

FLP 系列多功能制粒包衣机

FLP Series Multi-Function Granulator and Coater

概述 Descriptions

FLP多功能制粒包衣机是集喷雾干燥—制粒—离心制丸—流化包衣干燥于一体的多功能设备。该机兼容多种工艺操作。特别适用于医药、食品、化工等行业多品种、多剂型制粒、制丸及包衣。

FLP Granulator/Coater/Pelleter is multi-function equipment integrated spray drying—granulating—centrifugal spray coating—fluid coating—drying in one body. The machine combines various process operations. Particularly it is suitable for granulating, pelleting and coating of various varieties in pharmaceutical industry, foodstuff industry and chemical industry.etc.

特点 Features

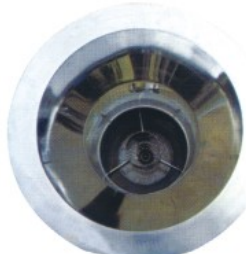
- 集制粒、制丸、包衣多种功能于一体。
- 粉体物料制粒。
- 粉体物料包衣。
- 粉体物料制丸。
- 中药喷雾制粒及包衣。
- 制备10-30目大颗粒冲剂。
- 粉体、颗粒、丸的薄、肠溶、缓控释包衣。
- 掩味、防潮、防氧化、防水、隔热、着色、隔离包衣。
- 粉状、粒状、团状物料干燥。
- Multi-function such as granulating, pelleting, coating in one machine.
- Powder material granulating.
- Powder material coating.
- Powder material pelleting.
- Chinese medicine spray drying, granulating and coating.
- Make 10-30 meshes big granule.
- Film coating of Powder, granules and pellets, enteric release, slow and control release coating.
- Taste masking, odor, moisture-proof, anti-oxidation, prevent water, heat insulation, coloration and separation coating.
- Powder, granule, agglomerate material drying.



设备可选流化床特点 Fluid beds for choose



顶喷制粒床
Top spray granulating



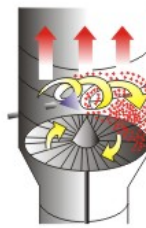
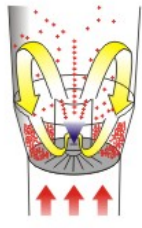
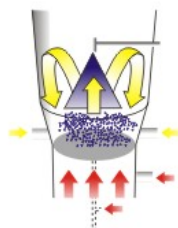
底喷包衣床
Bottom spray coating



旋流流化床
Turbojet granulating/coating



侧喷制丸包衣机
Centrifugal spray pelleting/coating

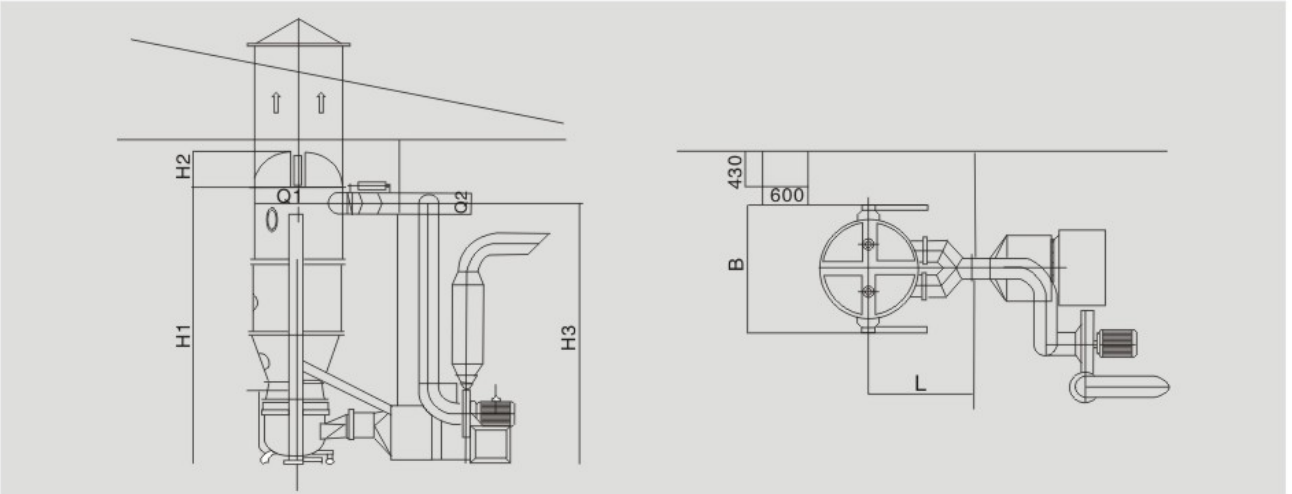


FLP 系列多功能制粒包衣机

FLP Series Multi-Function Granulator and Coater



结构示意图 Skech of oven



技术参数 Technical parameters

项目 item		机型 (FLP) Model/specifications							
名称 name	单位 unit	10	15	20	30	45	60	90	120
容器直径 dia of container	mm	700	800	900	1000	1100	1200	1400	1500
生产能力 productive capacity	kg/批 kg/batch	2.5-10	3-15	5-20	7.5-30	10-45	15-60	20-90	30-120
风机功率 power of fan	kw	5.5	7.5	7.5	7.5	11	11	15	18.5
蒸汽 steam	压强 pressure	Mpa 0.4-0.6							
	耗量 consumption	Kg/h 35 42 47 60 140 160 180 240							
压缩空气 compressed air	压强 pressure	Mpa 0.6							
	耗量 consumption	m³/min 0.6 0.6 0.6 0.9 0.9 1.1 1.3 1.5							
噪音 noise	dB	风机处理不大于75分贝 No more than 75bt separated of fan							
主机尺寸 installation size for reference	H ₁ (mm)	2790	3350	3650	3720	3720	3850	3950	4190
	H ₂ (mm)	340	490	490	590	640	690	740	790
	H ₃ (mm)	2570	3130	3130	3500	3500	3630	3720	3975
	Φ ₁ (mm)	700	1000	1000	1200	1300	1400	1500	1600
	Φ ₂ (mm)	250	250	250	280	280	280	280	315
	L(mm)	1250	1400	1450	1500	1550	1600	1650	1700
	B ₁ (mm)	1160	1460	1560	1600	1760	1860	1960	2060
	B ₂ (mm)	1860	2460	3460	2860	2860	3260	3460	3660

所有数据仅供参考，视物料情况，本公司有变更权利，并不另行通知。
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LDP型流化床制粒包衣机
LDP Fluid-bed coater

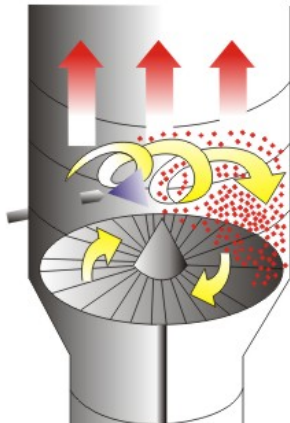
概述 Descriptions

流化床包衣机是将流态化包衣技术与喷雾技术有机结合为一体的新型微粒包衣设备，广泛用于膜缓控释、骨架缓控释胶囊、丸剂包衣、颗粒、粉体包衣。

Fluid-bed coater is a new style coating equipment that combined fluid-bed spraying technology and coating well. It is widely used for ilm slow and control releasing coating, framework slow and control releasing capsule, pellet coating, granule, powder coating, etc.

特点 Features

- 底喷流态化，物料具备一定规律的运行轨迹，因而可获得均匀、连续的衣膜。
- 粉体、颗粒、丸掩味、防潮、防氧化、防水、防热、着色隔离等包衣。
- 无包衣材料损失、生产成本低。
- 雾粒到达物料线路短，无“喷雾干燥”之患。
- 圆柱形加速容器或倒锥体减速设计，可进行微粒、大颗粒、小颗粒、微丸包衣。
- Coating of bottom spraying, material low in order. We can get uniform and continuous ilm.
- Taste masking odor, moisture-proof, antioxidation, prevent water, heat insulation, coloration and separation coating.
- Low productive cost, and the coating material is used perfectly.
- Short travel distance of fog granule and without the problem of “spray drying” .
- The design of cylinder for accelerator or cone for decelerate can Coating of granule, big granule and pellets.
- The high separate, without adhere.



LDP型流化床制粒包衣机
LDP Fluid-bed coater

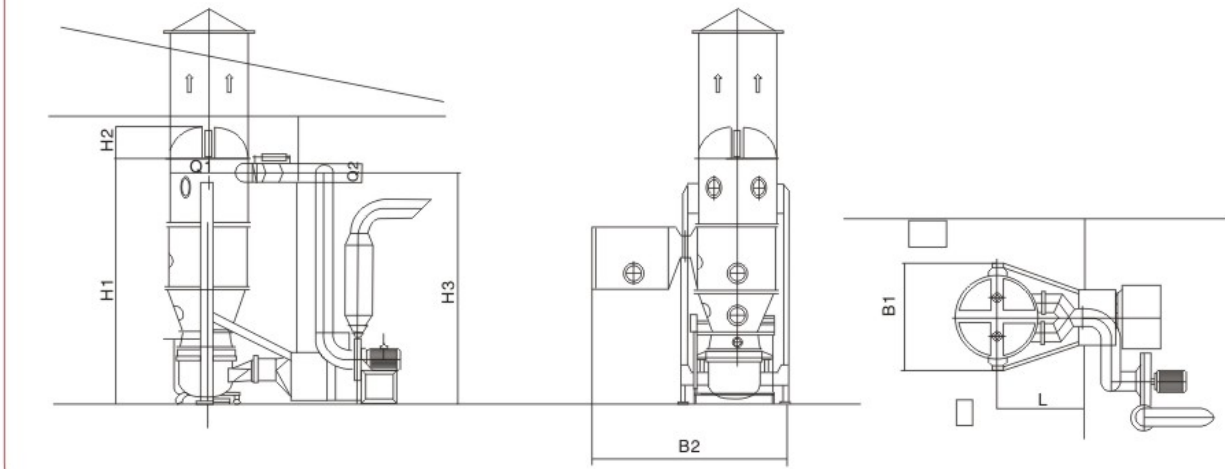


技术参数 Technical parameters

项目 item	机型 (LDP) Model/specifications								
名称 name	单位 unit	1	3	5	15	30	60	120	200
投料量 capacity	kg/批 kg/batch	0.3-1.5	1.5-4.5	4-6	10-20	25-40	40-80	80-150	150-200
原料容器容量 Volume of Container	L	5	10	15	50	100	220	360	600
风机功率 power of fan	Kw	2.2	3	4	5.5	7.5	15	18.5	22
压缩空气 compressed air	m³/min	0.3	0.6	0.4	0.6	0.9	1.3	1.8	2.4
蒸汽耗量 steam	Kg/h	电3kw	电6kw	50	64	85	181	250	340
安装参考尺寸 installation size for reference	H ₁ (mm)	2600	2600	2600	2850	3150	3250	3500	3800
	H ₂ (mm)				340	490	590	790	890
	H ₃ (mm)			750	2630	2930	3020	3280	3580
	Φ ₁ (mm)		750	1560	1160	1460	1660	2060	2260
	Φ ₂ (mm)			550	1860	2460	2860	3660	4060
	B ₁ (mm)	300	400	180	700	1000	1200	1600	1800
	B ₂ (mm)	150	180	850	250	250	280	280	315
	L(mm)	800	850	1100	1550	1700	1800	2000	2100

所有数据仅供参考，视物料情况，本公司有变更权利，并不另行通知。
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工艺流程
Technological process



GHL系列高效湿法混合制粒机

GHL Series High-Speed Mixing Granulator

概述 Descriptions

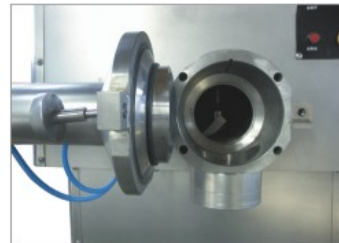
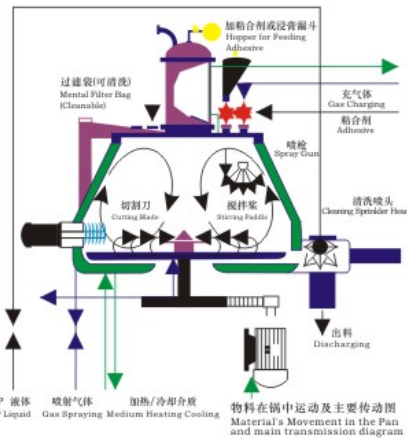
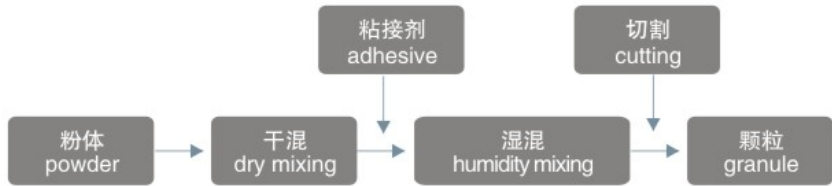
粉体物料与粘合剂在圆筒形容器中由底部混合桨充分混合成湿润软材，然后由侧置的高速粉碎桨切割成均匀的湿颗粒。

The powder raw material and adhesive in a cylinder are mixed fully at the bottom to turn into a humid soft material. Then it is crushed at a high speed and become uniform granules.

特点 Features

- 本机采用卧式圆筒构造，结构合理。
 - 充气密封驱动轴，清洗时可切换成水。
 - 流态化造粒，成粒近似球形，流动性好。
 - 较传统工艺减少25%粘合剂，干燥时间缩短。
 - 每批次干混2分钟，造粒1-4分钟，工效比传统工艺提高4-5倍。
 - 在同一封闭容器内完成，干混-湿混-制粒，工艺缩减，符合GMP规格。
 - 整个操作具有严格的安全保护措施。
- The machine adapts a practical horizontal cylinder structure.
 - The driving shaft is equipped with inflatable seal. While washing, the air can be replaced by water.
 - Fluidized granulating processed is used and the final granules are quite round with high fluidity.
 - Compared with traditional technique, this type of machine can reduce 25% of adhesive and also shorten the drying time.
 - For each batch of material, with 2 minutes' dry mixing and 1-4 minutes' granulating, the efficiency is 4-5 times higher than that of traditional technique.
 - Dry mixing, wet mixing and granulating are finished inside the same sealed container, which is in conformity with the requirements of "GMP".
 - The whole operation has strict safe and protective measures.

流程图 Flow chart

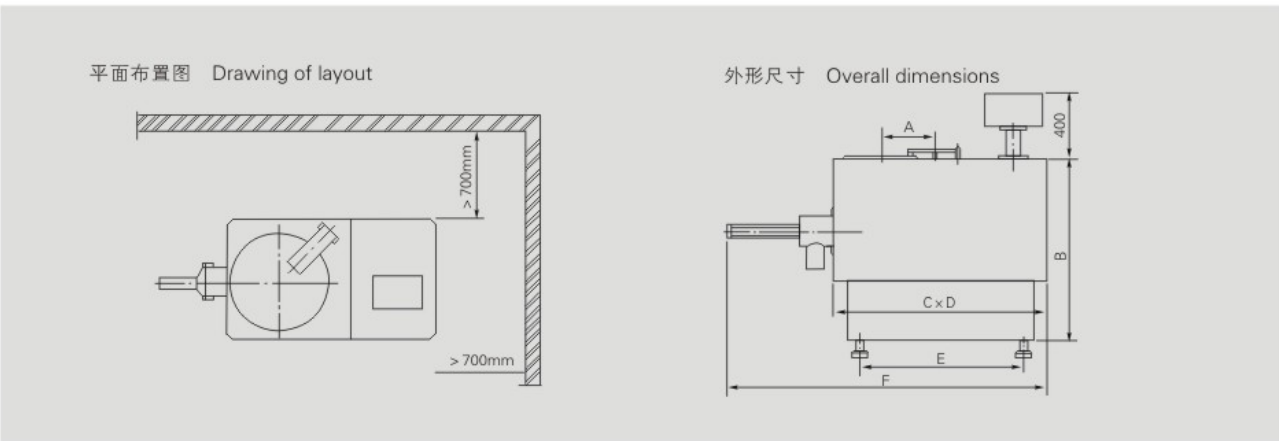


GHL系列高效湿法混合制粒机

GHL Series High-Speed Mixing Granulator



结构示意图 Skech of oven



型号Type	A	B	C x D	E	F
10	270	750	1000 x 650	745	1350
50	320	950	1250 x 800	970	1650
150	420	1000	1350 x 800	1050	1750
200	500	1100	1650 x 940	1450	2050
250	500	1160	1650 x 940	1400	2260
300	550	1200	1700 x 1000	1400	2310
400	670	1300	1860 x 1100	1550	2410
600	750	1500	2000 x 1230	1750	2610

技术参数 Technical parameters

名称 Name	规格 Specification							
	10	50	150	200	250	300	400	600
容积 Capacity (L)	10	50	150	200	250	300	400	600
产量Output (kg/batch)	3	15	50	80	100	130	200	280
混合速度 Mixing speed (r.p.m)	300/600	200/400	240/360	180/270	170/220	140/220	106/155	80/120
混合功率 Mixing power (kw)	1.5/2.2	4/5.5	6.5/8	9/11	9/11	13/16	18.5/22	26/32
切割速度Cutting speed (r.p.m)	1500/3000	1500/3000	1500/3000	1500/3000	1500/3000	1500/3000	1500/3000	1500/3000
切割功率Cutting power (kw)	0.85/1.1	1.3/1.8	3.3/4	3.3/4	3.3/4	4.5/5.5	6.5/8	9/11
压缩空气耗量 Amount of compressed air(m³/min)	0.6	0.6	0.9	0.9	0.9	1.1	1.5	1.8

GZL 系列干法辊压制粒机
GZL Series Dry Granulating Set

概述 Descriptions

GZL系列干粉制粒机是我公司根据用户需要，在吸收国外先进粉体造粒技术的基础上精心研制开发的新型制粒设备，该设备能够将粉体原材料直接制成满足用户要求的颗粒状产品，期间无需添加任何中间体及添加剂，造粒后的产品粒度均匀，堆积密度显著提高，同时，可有效控制污染，减少粉料浪费。设计科学，结构紧凑，工艺过程简单，操作使用方便，是您粉体产品造粒的理想选择。

GFZL series dry-power pelletizer is a newly-designed pelletizing machine developed and manufactured by our company in accordance with the needs of customers and on the basis of absorbing the foreign advanced technology. This kind of equipment can make the powder material become the granular solid. During the process, no additive and mediate are added. After pelletizing, the grain size is even and bulk density increases. Meanwhile, it can control the pollution efficiently, reduce the waste of power material. The design of it is scientific, structure is compact, technological process is simple and operation is easy. It is an ideal for you to choose a pelletizing machine.

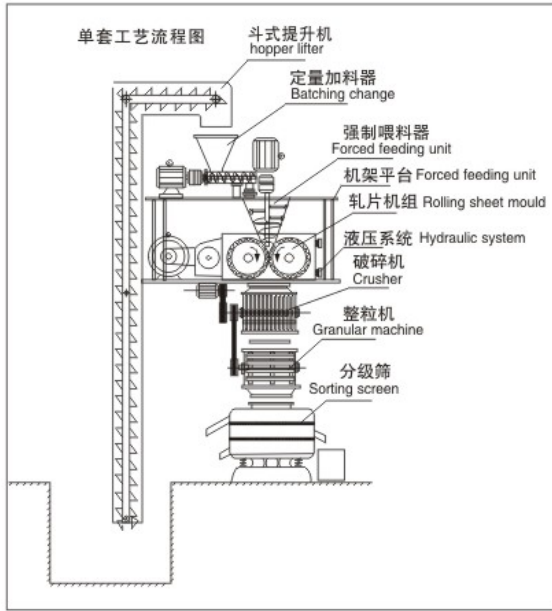
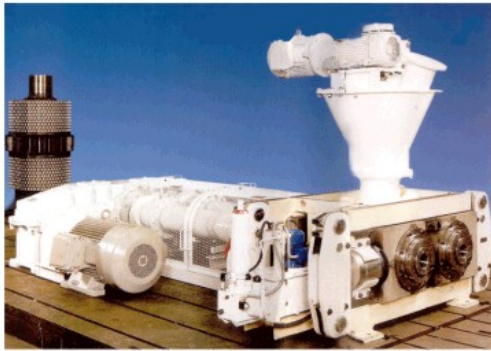
原理 Principle

粉状物料由振动給料斗经横向螺旋送料器定量，均匀地加入轧片主料斗，使轧片主料斗内保持恒定的料粒，然后由轧片主料斗内的纵向锥螺旋对粉料进行预压缩并输送到两只压辊的弧形槽口，两只压辊表面均匀分布形状相同的半扁圆形弧槽或菱形槽，通过一对齿轮的啮合传动，使两只压辊等速，反向旋转，将锥螺旋输送至槽口的物料咬入槽内并瞬间强制压缩，物料经过压缩后随着压力逐渐减小在其弹力及重力作用下，从槽内脱落，进入破碎整粒系统，然后根据用户的粒度要求过筛、分级，得到符合质量要求的均匀颗粒状产品，筛下粉重返回振动料斗循环利用。

Power materials pass the vibrating material delivery bucket, after quantity fixed by cross spiral material conveyer. Evenly enter main rolling flake material bucket. So quantity of materials in material bucket keep constant. After powder materials are precompressed by the longitudinal cone spiral in the main flake bucket, they will be sent to inlets of two curve slots. Half oblate slots of rhomb slots or rhomb slots evenly separate on surface of two rollers. By way of meshing and transmission of a couple of gears, two rollers reverse rotation with one speed. So materials are bitten into the slots and forced to be compressed in a tank. After materials being compressed and forming, the pressure on them gradually reduce. Materials drop by elasticity and gravity from the slots. Enter the Broken Granulating System. There they are screened and graded according to consumer, require of particles size. Finally you get regular particle product conforming to quality standard. Rest of screened powder can return to vibrating bucket to be used again.

特点 Features

- 无需任何添加剂，干粉直接制粒。
- 颗粒强度可以调整，通过调节压辊的压力控制成品强度。
- 循环操作，实现连续生产。
- 成品产量高，单机产量可达2000kg/h以上(堆积密度 $1.5 \times 103\text{kg/m}^3$)
- Without any additive, dry powder directly be made to partices.
- Particle intensity can be adjusted. Regulate the Pressure of rollers to control intensity of product.
- Operating in cycles, working continuously.
- High product output, output of one machine can be than 2000kg/h. (Heap Intensity $1.5 \times 103\text{kg/m}^3$)

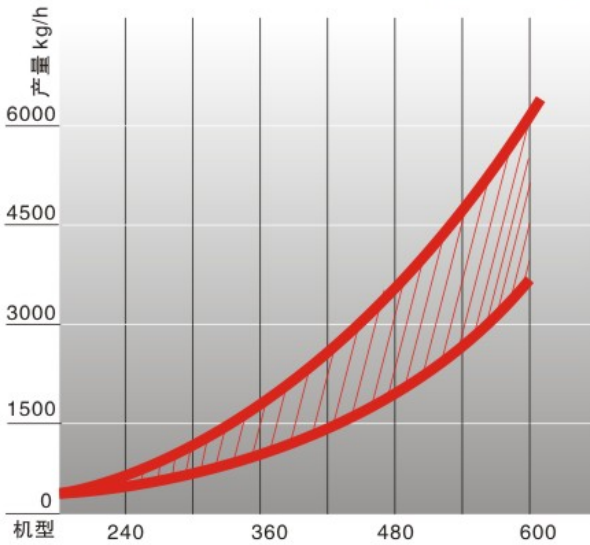
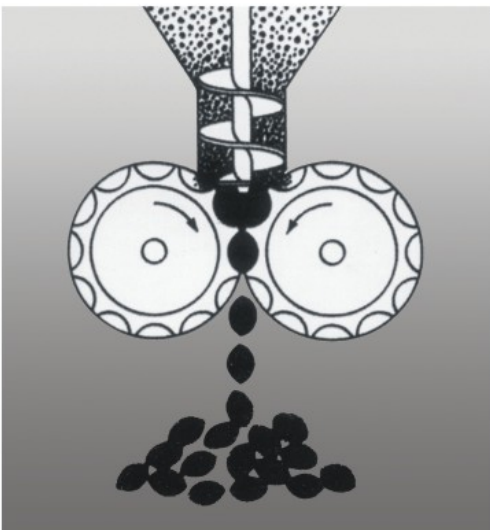


GZL 系列干法辊压制粒机
GZL Series Dry Granulating Set



应用 Applications

- 石油化工 Oil & chemical
- 金属粉末 Metallic power
- 精细化工 Fine chemical
- 医药 Medicine
- 农药 Agrochemical
- 化肥 Fertilizer
- 生物工程 Biosynthesis
- 食品 Foodstuff
- 矿产, 煤炭 Mine, Coal mine



在压块时，粒状物料在两个反向旋转的辊子之间被压实，压块可使用粘结剂。

技术参数 Technical parameters

项目item	参数date	型号model	GZL-1	GZL-2	GZL-3	GZL-4	GZL-5
轧辊直径 diameter of roller	(mm)		Φ240	Φ240	Φ300	Φ360	Φ480
轧辊有效使用宽度 width of roller	(mm)		80	160	250	360	480
轧辊转速 rolling rate of roller	(rpm)		8-20	8-20	8-20	8-20	8-20
最大成形压力 max pressure of roller	(t)		50	60	80	100	130
轧辊最大厚度 max thickness of roller	(mm)		4	5	6	8	8
轧片产量 output of pressed sheets	(kg/h)		250-500	500-900	700-2000	1000-1400	2000-7400
成品粒度 diameter of the products	(mm)		0.2-5	0.2-5	0.2-8	0.2-8	0.2-8
成品产量 output of product	(kg/h)		80-150	150-300	300-600	600-1000	1000-2000
主机功率 main motor power	(kw)		7.5	11	15	22	30
总功率 total power	(kw)		13	21	30	46	60
外形尺寸 (长x宽x高) overall dimension	(mm)		1500 × 2000 × 3800	1700 × 2000 × 4000	2000 × 2500 × 4200	2500 × 2500 × 5200	2800 × 2600 × 6000
重量 weight(t)			7	8	10	14	20

注：1.轧片产量以料片密度 1500kg/m^3 ，轧辊转速 20rpm 计算。
2.成品产量以成粒量50%计算。
3.成品粒度通过改变破碎整粒机的筛板孔径可在较大范围调整。

4.主机所用实际功率为所选电机功率的70%。
5.轧辊转速通过改变电机与减速机之间的皮带轮传动来进行调整。

GK系列干式制粒机
GK Series Dry Granulator

应用 Applications

- 医药：压片颗粒、胶囊填充颗粒等。
- 食品：食品制造用颗粒、调味颗粒等。
- 塑料：各种塑料成形颗粒。
- 化工：催化剂、颜料、洗涤剂及其它化工原料等颗粒。
- Pharmaceutical industry: granule for pressed disk, granule for filling capsule and so on.
- Foodstuff industry: granule for foodstuff making, granule for flavoring.
- Plastic industry: shaped granule of all kinds of plastic.
- Chemical industry: granule of catalyst, pigment, detergent and other chemical raw materials.



原理 Principle

- 该机是直接粉料制成颗粒的新设备，结构新颖合理，性能稳定可靠，清洗维修方便。制成的颗粒可以压片剂，做冲剂，灌胶囊等。
- 该机主要用于制药、食品、化工和其它行业造粒。特别适用于湿法无法解决的物料进行造粒。
- This machine is new equipment that can granulate from powder to granule directly. Its features are novelty and reasonable in structure, stable and reliable in performance, convenient in clean and maintenance.
- The granule manufactured with this machine can be used for pressing tablet, drinking granule, filling capsule etc. It is wide used for pharmaceutical industry, foodstuff industry and chemical industry to granulate. Particularly it is suitable for granulating of raw materials that can not be granulated through damp method.

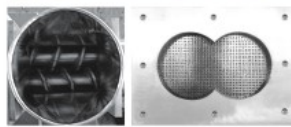
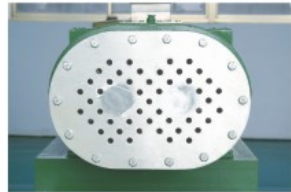
特点 Features

- 干粉颗粒密度均匀，溶解度好，成粒率高。
- 特殊的送料结构，保证有效送料。
- 轧辊水循环冷却，保证不会出现物料粘辊现象。
- 不需要水或乙醇等润湿剂，不需要二次加热干燥，工序少，工效高，成本低。
- 采用先进的电动液压，操作简单可靠，自动化程度高。
- 密封操作无污染，满足药品卫生要求。
- 特别适用于湿法无法解决的物料造粒。
- The density of dry power granule is homogeneous. Its solubility is good. The ratio of granule formed is high.
- Being adapted special mechanism to feed raw material, it guarantees raw material can be fed effectively.
- Because its roller is cooled through circle water, it guarantees the phenomenon of raw material to adhere roller can not be taken place.
- It is not necessary to use water or ethanol as humectant and to carry out the 2nd heating and drying. Its procedure is less and its working efficiency is high and its cost is cheap.
- Being adapted advanced electric hydraulic pressure, its operation is simple and its automatic content is high.
- Being adapted seal operation, no pollution, the quality of finished product can meet the requirement of health.
- Particularly it is suitable for granulating of raw materials that can not be granulated through damp method.

技术参数 Technical parameters

型号 Model	40型Model	80型Model	120型Model
生产能力 Productive capacity (kg)	5 ~ 20	20 ~ 60	30 ~ 100
料斗容积 Volume of hopper (L)	2	3	5
轧辊尺寸 Size of roller (mm)	120 (D) × 40 (W)	200 (D) × 80 (W)	200 (D) × 120 (W)
轧辊最大预压力 Max pre-pressure of roller (MPa)	6	10	15
轧辊转速 Revolution of roller (mm)	(可调adjustable)	(可调adjustable)	(可调adjustable)
送料速度 Revolution of fed raw material	(可调adjustable)	(可调adjustable)	(可调adjustable)
辊轮驱动电机 Motor of driving roller (kw)	4	4	7.5
送料驱动电机 Motor of fed raw material (kw)	1.1	1.5	2.2
造粒驱动电机 Motor of granulating (kw)	0.75	0.75	2.2
油泵驱动电机 Motor of oil pump (kw)	0.75	0.75	1.1
辊轮及送料速度调节型式 Adjusting way of roller wheel and fed speed	变频电磁调速 electromagnetic speed control	变频电磁调速 electromagnetic speed control	变频电磁调速 electromagnetic speed control

LJL 系列双螺杆挤压造粒机
LJL Series Double-Screw Extruding



加料口 feeding hole 出料口 discharging hole

概述 Descriptions

在固体与液体共存并以固体为主的分散体中，利用分散体的自粘性（或外加粘结性），通过强制方式（如挤压、重力、离心力、机械力、气流冲力等）使固体粉料基本微粒相互粘接、增大，并形成一定形状和粒度均匀、集中的颗粒群。湿法造粒成套装置主要由混合（捏和）、造粒、干燥及其辅助系统设备构成。粉料经混合（捏和）后，进入造粒机形成所需粒度的含湿产品，经干燥得到颗粒状成品，从而实现造粒的目的。

LJL型系列双螺杆挤出造粒机分前出料式和侧出料式，前出料式造粒直径一般在1.5-12mm之间选择，侧出料式造粒直径一般在0.7-2.0mm之间选择，颗粒形状为圆柱形，成粒率≥95%。

In the dispersed system of coexistent composition of solid power and liquid, besides with solid phase on the former, make use of the self cohesiveness of the dispersed system (or add binder) to make basic partials of solid powder bind each other and increase to form mass granule with uniform fair-size by means of exerting force) such as extruding force, gravity, centrifugal force, impulsive force, gravity, centrifugal force, mechanical force, impulsive force air flowed.

Complete sets of equipment for wet granulation mainly consist of equipment for mixing, granulating, dry in and auxiliary system. Powder material being mixed is delivered into granulator sideband then to get end granular product through drying, thus achieving the goal of granulation.

SET Type Double-Screw Granulator has two models of front and side for material to be extrude out. Diameters of granular product granulated by front model may be normally selected between 1.5mm-12mm, and by side model can be normally selected between 0.7mm-2.0mm. Granules are cylindrically shaped. The rate of end product is equal to more than 95%.

技术参数 Technical parameters

型号 type	螺杆直径 screw dia	压比 Presses the ratio	转速 revolution (rpm)	主机功率 (kw) Main engine power	产量 (kw/h) Output
LJL-80	80	1:6	90-122	4-5.5	50-90
LJL-100	100	1:6	90-122	5.5-7.5	70-120
LJL-125	125	1:6	90-122	7.5-11	100-160
LJL-150	160	1:6	90-122	11-15	140-220

KZL 系列快速整粒机
KZL Series High Speed Grinding Granulator

■ 概述 Descriptions

- 工作时发热小，粉尘少。
- 定子筛网由不锈钢板加工而成，不易损坏。
- 粉碎刀与筛网间隙可调。
- 可处理粘性，树胶状、热敏性和湿润物料。
- There is less heat and dust in work.
- The fixed screen is made from stainless steel and it can not damage easy.
- The gap between crush knives and screen can be adjusted.
- It can treat adhesive, glue, hot and wet raw materials.



■ 应用 Applications

- 本机适用于中西药、食品、化工颜料及饲料等行业中颗粒的破碎及整理。
- 经各种造粒工艺及设备所得到的颗粒形状及规格各异。将造粒后的颗粒经本机高速旋转的刀片组合切割后，经网板排出，便可得到形状及规格基本一致的颗粒。
- 本机全部零件均采用不锈钢制造，表面抛光，装拆与清洗十分方便。

- This machine is suitable for crushing and processing granule of Chinese traditional medicine, Western medicine, foodstuff, chemicals, pigments, feedstuff and so on.
- The specifications and shapes of granule made by all kinds of granulating process and different granulator are different. The granule with basic similar shape and specification can be got when the granulated granule is cut by knives with high speed in this machine.
- All parts in this machine are made of stainless steel. Its assembling and disassembling and cleaning are very convenient.

QZL球形抛丸机
QZL Pelletizer

■ 概述 Descriptions

本机是通过设置旋转离心盘、鼓风机、气动喷枪，将湿颗粒制成美丽的球丸。将前道工序做成的湿颗粒投入旋转离心盘内，启动鼓风机后再将旋转离心盘启动，使湿颗粒受到环隙空气浮力、旋转离心力、自身重力作用，呈环绳状运动，从而形成真球度极高的球丸。

This machine makes damp granule into beautiful pellet by setting rotating centrifugal disk, blower, and pneumatic nozzle. Feed damp granule into rotating centrifugal disk, start fan then start rotating centrifugal disk. It can make the damp granule in float and circle by the air from gap, rotating centrifugal strength and itself gravity, appear circle rope-turning movement and become high-round pellet.



■ 技术参数 Technical parameters

规格spec	单位unit	Φ230	Φ400	Φ500	Φ700	Φ1000	Φ1300
动力power	Kw	0.75	2.2	3	3.7	5.5	7.5
能力capacity	Kg/h	2.5-4	5-8	8-16	40-80	70-150	100-300

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All sizes are used for reference only. According to the condition of material our factory has the right to change but not notice, pardon.

XZL旋转式制粒机
XZL Extrude granulator



■ 概述 Descriptions

本机是通过一组旋转碾刀，将前道工序制成的湿材注入环碾刀的不锈钢筛筒筛孔中，从而制成圆柱状的湿颗粒，供下道工序抛丸使用。本设备可通过更换不锈钢筛筒来取得不同大小的颗粒。

制湿颗粒也可根据物料和所需球形颗粒的大小。

This machine adopts one pair of rotating grinding blade to grind form damp material into column-shape granule by stainless steel sieve cylinder which is provided to pelletize in next process.

The machine can obtain different size granule by changing the stainless steel sieve.



■ 技术参数 Technical parameters

筒直径 Diameter of cylinder(mm)	筛筒孔径 Diameter of sieve(mm)	生产能力(kg/h) Productivity	电机功率(kw) Motor power	外形尺寸(mm) Overall dimension
250	2-2.2	100-200	4	700×540×1300
300B	1.2-3	140-400	5.5	880×640×1300
30D	0.5-6	300-600	7.5-6	1300×800×1200



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YK160型摇摆式制粒机
Model YK160 Swaying Granulator

■ 概述 Descriptions

本机适用于制药、食品、化工、固体饮料等行业的制粒，将搅拌好的物料制成所需尺寸的颗粒，或将结块状物料打成小颗粒。

The machine is suitable for pharmaceutical, foodstuff, chemical, solid drink and so on industries. It can make the stirred raw materials become granule with needed size or crush the blocked raw materials into small granule.

■ 技术参数 Technical parameters

型 号	Model A,B	Model C
生产能力 (kg/h)	100-200	150-300
电机功率 (kw)	2.2	3
滚筒转速 (r/min)	65	65
摇摆角度 (度)	360°	360°
滚筒直径 (mm)	φ 160	φ 160
外形尺寸 (mm)	1150×680×1150	1260×750×1150
重量 (kg)	300	450



FZH 系列方锥混合机
FZH series square conical mixer

应用 Applications

FZH系列方锥型混合机是一种广泛应用于制药、化工、冶金、食品、轻工、饲料等行业的新颖物料混合机。该机能非常均匀地混合粉体或颗粒，使混合后的物料达到最佳效果。

HF series square conical mixer is a widely used pharmaceutical, chemical, metallurgy, food, light industry, new materials and other industries feed mixer. The machine can be very evenly mixed powders or granules, so that the mixture of materials to achieve the best results.



原理 Principle

将物料装入方锥形密闭混合桶内，料斗对称的轴线与回转轴轴线成一夹角，不同组分物料在密闭的料斗中进行三维空间运动，产生强烈翻转和扩散收缩作用，达到最佳的混合效果。

The material into square taper sealed mixing barrel, hopper and rotary axis of symmetry axis into an angle, different components of the material in the hopper in a confined three-dimensional space motion, produced a strong contraction of flip and diffusion, the best mixed results.

特点 Features

- 整机设计新颖、结构紧凑、外形美观、混合均匀度达99%，体积装料系数达0.8。
- 回转高度低、运转平稳，性能可靠，操作方便。
- 桶体内外壁均经镜面抛光，无死角、易出料、易清洗，无交叉污染，符合GMP要求。

- New machine design, compact structure, beautiful appearance, degree of homogeneity of 99%, volume loading coefficient of 0.8.
- Rotary high low, smooth operation, reliable performance, easy to operate.
- Barrel outer wall of the body are mirror polished, no dead corner, easy to discharge, easy to clean, no cross-contamination to meet GMP requirements.

技术参数 Technical parameters

型号	FZH-300	FZH-500	FZH-1000	FZH-1500	FZH-2000	FZH-3000
混合桶容积(L)	300	500	1000	1500	2000	3000
最大装料容积(L)	240	400	800	1200	1600	2400
最大装料重量(Kg)	150	250	500	750	1000	1500
主轴转速(rpm)	14	13	12	10	10	8
电机功率 (Kw)	1.5	2.2	4	5.5	7.5	11
整机重量(Kg)	600	750	1200	1650	2000	3000
外形尺寸(动态)	1850 × 1280	2200 × 1530	2800 × 2000	2930 × 2330	3300 × 2550	3800 × 3000
长 × 宽 × 高(mm)	× 1980	× 2220	× 2820	× 3355	× 3280	× 3800

EYH 系列二维运动混合机
EYH Series Two Dimensional Mixer



原理 Principle

二维运动混合机主要由转筒、摆动架、机架三大部分构成。转筒装在摆动架上，由四个滚轮支撑并由两个挡轮对其进行轴向定位。在四个支撑滚轮中，其中两个传动轮由转动动力系统拖动使转筒产生转动；摆动架由一组曲柄摆杆机构来驱动，曲柄摆杆机构装在机架上，摆动架由轴承组件支撑在机架上。

EYH Series Two Dimensions mixer mainly consists of three big parts. rotating cylinder,swinging rack and frame. The rotating cylinder lies on the swinging rack,supported by four wheels and its axial fixation is done by two stop wheels Two of four wheels are driven by rotating system to make the cylinder rotate. The swinging rack is driven by a set of crandshaft swinging bar which is mounted on the frame and the swinging rack is supported on the frame.

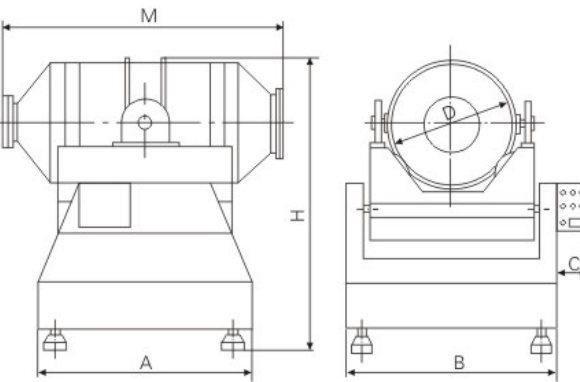


特点 Features

EYH 二维运动混合机的转筒可同时进行二个运动，一个为转筒的转动，另一个为转筒随摆动架的摆动。被混合物料在转筒内随转筒转动、翻转、混和的同时，又随转筒的摆动而发生左右来回的掺混运动，在这两个运动的共同作用下，物料在短时间内得到充分的混合。EYH二维运动混合机适合所有粉、粒状物料的混合。

The rotating cylinder of EYH Two Dimensionals Mixer can achieve two motions at the same time. One is the rotation of the cylinder and the other is swinging of the cylinder along the swinging rack. Materials to be mixed will be rotated when the cylinder is rotating,and will be mixed from left to right and vice versa when the cylinder is swinging.As the result of these two motions,materials can be mixed fully in a short time. EYH Two Dimensions Mixer is suitable for mixing of all powder and granule materials.

外形示意图 Structure Diagram



技术参数 Technical parameters

规格型号 spec	容积(L) gross volume	装料系数 feed rate	装料重量(kg) feed weight	外型尺寸Overall dimensions(mm)						功率power(kw)	
				A	B	C	D	M	H	转动rotation	摆动
EYH100	100	0.5	40	860	900	200	400	1000	1500	1.1	0.75
EYH300	300	0.5	75	1000	1100	200	580	1400	1650	1.1	0.75
EYH600	600	0.5	150	1300	1250	240	720	1800	1850	1.5	1.1
EYH800	800	0.5	200	1400	1350	240	810	1970	2100	1.5	1.1
EYH1000	1000	0.5	350	1500	1390	240	850	2040	2180	2.2	1.5
EYH1500	1500	0.5	550	1800	1550	240	980	2340	2280	3	1.5
EYH2000	2000	0.5	750	2000	1670	240	1100	2540	2440	3	2.2
EYH2500	2500	0.5	950	2200	1850	240	1160	2760	2600	4	2.2
EYH3000	3000	0.5	1100	2400	1910	280	1220	2960	2640	5	4
EYH5000	5000	0.5	1800	2700	2290	300	1440	3530	3000	7.5	5.5
EYH10000	10000	0.5	3000	3200	2700	360	1800	4240	4000	15	11
EYH12000	12000	0.5	4000	3400	2800	360	1910	4860	4200	15	11
EYH15000	15000	0.5	5000	3500	3000	360	2100	5000	4400	18.5	15

物料堆积比重按0.6g/cm³为计，如超出，订货时请标明
The bulk density of material is made based on 0.6g/cm³. Please point out if it's over.

SYH 系列三维运动混合机

SYH Series Multi-direction Motion Mixer

应用 Application

SYH系列三维运动混合机广泛应用于制药、化工、食品、冶金、轻工及科研单位，能非常均匀地混合流动性较好的粉状或颗粒状的物料，使混合后的物料能达到最佳混合状态。

This machine is suitable for many industries such as pharmaceutical industry, chemical industry, metallurgy industry, foodstuff industry, architecture industry and institutes, It can mix powder and granule raw materials having good fluidity and make the mixed raw materials reach the

特点 Features

由于混合桶体具有多方向的运动，使桶体内的物料交叉混合点多，混合效果高，均匀度可达99.9%以上，最大装载系数可达0.9（普通混合机为0.4~0.6），混合时间短，效率高。

该机混合桶体设计独特，桶体内壁经过精细抛光，无死角，不污染物料，出料方便，清洗容易操作简单等优点。

Because the mixing drum has multi directional motion, it makes raw material inside the drum has many cross-mixing points, therefore the mixing effect is good. Its degree of uniformity may be over 99.9%. Its Max loading efficiency may be 0.9 (The loading efficiency of ordinary mixer is 0.4 ~ 0.6). Its mixing time is short and its efficiency is high.

The design of mixing drum is unique. Its inner wall is polished finely. Its advantages are no dead corner, no pollution to raw material, convenient in discharge, easy in clean and so on.

原理 Principle

该机在运行中，由于混合桶体具有多方向运转动作，使各种物料在混合过程中加速了流动和扩散作用，同时避免了一般混合机因离心力作用所产生的物料比重偏析和积聚现象，混合无死角，能有效确保混合物料的最佳品质。

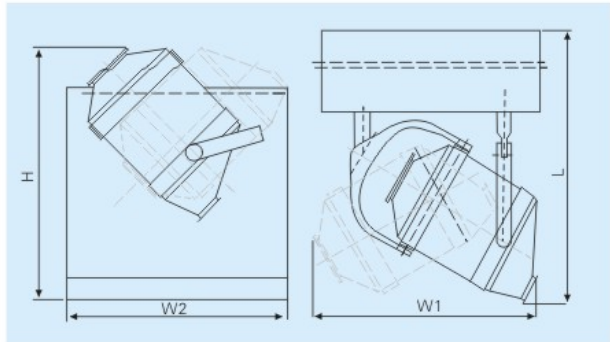
结构：该机由机座、传动系统、电器控制系统、多向运动机构、混合筒等部件组成。与物料直接接触的混合筒采用优质不锈钢材料制造，桶体内外壁均经镜面抛光。

技术参数 Technical parameters

型 号 type	SYH-5	SYH-15	SYH-50	SYH-100	SYH-200	SYH-400	SYH-600	SYH-800	SYH-1000	SYH-1200	SYH-1500	SYH-2000
混合桶容积 Material barrel volume (L)	5	15	50	100	200	400	600	800	1000	1200	1500	2000
最大装载容积 Max loading volume (L)	4.5	13.5	45	90	180	360	540	720	900	1080	1350	1800
最大装载重量 Max loading weight (kg)	2.4-4.5	7.5-13.5	25-45	50-90	100-180	200-360	300-540	400-750	550-900	600-1000	800-1350	1100-1800
主轴转速 Spindle rotation speed (r/min)	0-20	0-20	0-20	0-20	0-15	0-15	0-13	0-10	0-10	0-9	0-9	0-8
电机功率 Motor power (kw)	0.25	0.37	1.1	1.5	2.2	4	5.5	7.5	11	11	15	18.5
外型尺寸 Overall dimensions (mm)	L	600	800	1150	1250	1450	1650	1850	2100	2150	2300	2500
	W	1000	1200	1400	1800	2000	2200	2500	2650	2800	3000	3600
	H	1000	1000	1300	1550	1550	1550	1750	2000	2100	2260	2800
重量 Weight (kg)	100	200	300	800	1200	1200	1500	1700	1800	2000	2400	3000



外形示意图 Structure Diagram



During the period of operation, because the mixing drum has multi-directional actions of motion, it speeds up the fluid and diffused effect of raw material. Meanwhile it avoids the phenomenon of segregation and accumulation caused by centrifugal effect in ordinary mixer and no dead corner. It can guarantee the best quality of mixed raw material.

Structure: this machine consists of stand, transmission system, electric control system, multi-directional motion mechanism, mixing drum and so on. The mixing drum contacted with raw material is made of stainless steel. The inner and outer wall of drum is polished.

W 系列双锥混合机

W Series Conical Mixer



应用 Applications

本机适用于医药、化工、食品、建材等行业的粉状、粒状物料的混合。

It is suitable for mixing the powder and grain state materials in the pharmacy, chemical food, building material and other industries.

特点 Features

◇ 本机将粉末或粒状物料通过真空输送或人工加料到双锥容器中，随着容量的不断旋转，物料在容器中进行复杂的撞击运动，达到均匀的混合。
◇ 本机节约能源、操作方便、劳动强度低、工作效率较高。

◇ Through the vacuum conveyor for the machine, send the powder or grain state materials into the double-taper container, or send the materials into the container manually.

◇ As the container rotates continuously, the materials moves complexly in the container so as to get the uniform mixing.

技术参数 Technical parameters

型 号 Model	全容积 Total volume (m³)	生产能力 Productive capacity (kg/批)	混合时间 Mixing time (min)	筒体转速 Revolution of cylinder (rpm)	功率 Power (kw)	外形尺寸 Overall dimension (mm)	回转总高度 Rotation height (mm)	重量 Weight (kg)
180	0.18	72-90	6-15	12	1.1	1400 × 800 × 1850	1850	280
300	0.3	120-150	6-15	12	1.1	1685 × 800 × 1850	1850	310
500	0.5	200-250	6-15	12	2.2	1910 × 800 × 1940	1950	550
1000	1.0	400-500	6-15	12	4	2765 × 1500 × 2370	2460	810
1500	1.5	600-750	6-15	12	5.5	2960 × 1500 × 2480	2540	980
2000	2.0	800-1000	6-15	12	7.5	3160 × 1900 × 3500	3590	1500
2500	2.5	1000-1250	8-20	12	7.5	3386 × 1900 × 3560	3650	2150
3000	3.0	1200-1500	8-20	7.8	7.5	4450 × 2200 × 3600	3700	2500
4000	4.0	1600-2000	8-20	7.8	11	4750 × 2500 × 3680	3730	3200

CH 系列槽形混合机

CH Series Notch Shape Mixer

概述 Descriptions

用于混合粉状或湿性物料，使不同比例主辅料混合均匀。本机与物料接触处均采用不锈钢制造，浆叶与桶身间隙小，混合无死角，搅拌轴两端设有密封装置，能防止物料外泻，料斗采用按钮点动控制，出料方便。广泛适用于制药、化工、食品等行业。

CH series notch shaped mixer is widely used for mixing powder or wet materials, and can make the materials in different proportions mixed uniformly. The parts of the machine which contact with materials are made of stainless steel. The gap between blades and the inner wall of the cylinder is very small, so there's no "dead corner" in mixing. Seal devices are fixed on both ends of the stirring shaft to prevent the materials from rushing out. Feed hopper is controlled through buttons. So it's very convenient to feed or discharge materials. This type of mixer is widely used in pharmaceutical, chemical, foodstuff industry and so on.



技术参数 Technical parameters

型号 Type	容量 Volume (L)	电机功率 motor power (kw)	外形尺寸 Overall dimension (mm)	搅拌转速 stirring speed (rpm)	倒料角度 inclined angle (°)	重量 weight (kg)
150	150	3	1600 × 600 × 1100	24	105	500
200	200	4	1800 × 700 × 1200	24	105	650
500	500	7.5	2000 × 900 × 1600	24	105	850

DSH 系列双螺旋锥形混合机

DSH Series Double-screw Conical Mixer

■ 概述 Descriptions

由螺旋的公、自转使物料在锥体内产生复合运动，主要产生四种运动形式：

- 1. 螺旋沿壁公转，使物料沿锥壁作圆周运动；
- 2. 螺旋自转使物料自锥底沿螺旋上升；
- 3. 螺旋的公、自转复合运动使一部分物料被吸收到螺旋圆柱面内同时受螺旋自转的离心力作用使螺旋圆柱面内的一部分物料向锥体径向排放；
- 4. 上升的物料受自身重力作用下降。四种运动在混合机内产生对流、剪切、扩散、从而达到快速均匀混合的目的。

The material is made to conduct a compound motion in the cone because of the rotation and revolution of the screws. The effected motions include:

- 1. The revolution of the screw along the wall making the material conduct a circumferential motion;
- 2. The rotation of the screw making the material rise along the screw from the cone bottom;
- 3. The compound motion of the rotation and revolution of the screws making partial, material be absorbed into the screw cylindroid meanwhile, under the action of centrifugal force, the partial material in the screw cylindroid discharges radially.
- 4. The rised material drops under its sole weight. The four kinds of motions effect convection, shearing, diffusion in the cone, thus quick and even mixing can be achieved.

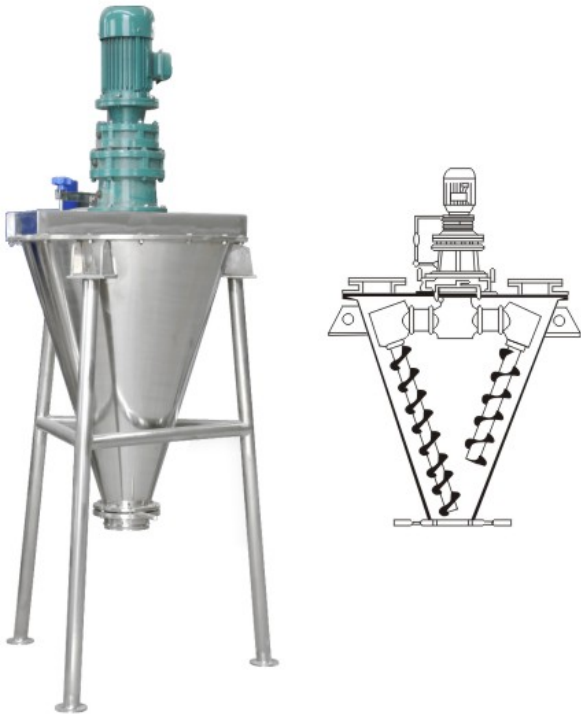
■ 特点 Features

- 可加装飞刀，喷淋雾化装配，满足特殊工艺要求。
- 出料阀有手动、气动两种方式。
- 特殊物料可加大电机功率（加重型）。

- This model of machine can be equipped with single screw, double screws, tri-screws.
- It can be equipped with flying-entter additionally, so as to meet the requivements for special technology.
- The discharge valve adopts two ways, one is manual or the other is pneumatical.
- The power of motor can be enlarged for special material(strengthening type).

■ 技术参数 Technical parameters

型 号 type	全容积 Total volume(m³)	一次混合量 mixed amount/batch(kg)	装机功率 Equipped power (Kw)	操作条件 Operating conditions	外形尺寸 Overall dimension(mm)	重量 Weight(kg)
DSH-0.1	0.1	40-60	1.5	常温常压粉尘密封	1569 φ 702	250
DSH-0.3	0.3	120-180	2.2	常温常压粉尘密封	1929 φ 920	550
DSH-0.5	0.5	150-300	3	常温常压粉尘密封	2322 φ 1124	660
DSH-1.0	1.0	400-600	4	常温常压粉尘密封	2869 φ 1480	1200
DSH-1.5	1.5	600-900	5.5	常温常压粉尘密封	3140 φ 1633	1350
DSH-2.0	2.0	800-1200	5.5	常温常压粉尘密封	3489 φ 1816	1500
DSH-3.0	3.0	1200-1800	7.5	常温常压粉尘密封	3747 φ 2210	2300
DSH-4.0	4.0	1600-2400	11	常温常压粉尘密封	4362 φ 2280	2520
DSH-5.0	5.0	2000-3000	15	常温常压粉尘密封	4576 φ 2402	3000
DSH-6.0	6.0	2400-3600	15	常温常压粉尘密封	4900 φ 2582	3150
DSH-8.0	8.0	3200-4800	18.5	常温常压粉尘密封	5405 φ 2805	4500
DSH-10	10	4000-6000	20.7	常温常压粉尘密封	5795 φ 3018	5500
DSH-15	15	6000-9000	24.2	常温常压粉尘密封	6475 φ 3450	6600
DSH-20	20	8000-12000	41	常温常压粉尘密封	7535 φ 3805	7000
DSH-25	25	10000-15000	41	常温常压粉尘密封	7995 φ 4078	8500
DSH-30	30	12000-18000	52.5	常温常压粉尘密封	8385 φ 4330	9200



■ 应用 Applications

应用于化工、医药、农药、染料、石油、冶金、建材等粉体与粉体(固-固)，粉体与液体(固-液)，液体与液体(液-液)混合、反应、干燥、冷却。

It is suitable for chemical industry, pharmaceutical industry pesticide, dyestuff, petroleum industry, metallurgical industry, construction material and etc. Such as in the mixing, reaction, drying, cooling of powder and powder(solid-solid), powder and liquid (solid-liquid), liquid and liquid (liquid-liquid).

WZ 系列无重力双轴桨叶混合机

WZ Series Zero-Gravity Mixer



■ 原理 Principle

本系列混合机以强烈、高效混合为特点、卧式筒体内两根搅拌等速反向旋转，轴上特殊布置的桨叶确保物料径向、环向、轴向三向运动，形成复合循环，在极短的时间内达到均匀混合。

This series machine takes a strong and high effective mixing as its features the two mixing axles rotate reversely at an identical revolution in the horizontal drum body. The paddles, specially distributed on the axle ensure that the material move radically, circulatingly, and axially, so as to from a compound motion, and in an extremely short time, the material is mixed evenly.

■ 特点 Features

- ◇ 混合精度高，速度快，能耗低，可密封操作。
- ◇ 气动、电动、手动出料方式
- ◇ 筒盖上可布置雾化装置以实现固液混合
- ◇ The equipment can run in an enclosure, with highprecision, high speed, low energy consumption.
- ◇ Pneumatical, electrical and manual discharging metod.
- ◇ The atomizing device can be distributed on the cylinder cover to realize the solid-liquid mixing.

■ 应用 Applications

化学药品、洗涤剂、涂料、树脂、玻璃硅、颜料、农药、化肥、饲料、饲料添加剂、小麦粉、奶粉、香料、微量成分、咖啡、食盐、砷添加剂、塑料及各种浆料、粉料的干燥与混合。

It is suitable for the drying and mixing of the following materials:chemicals, detergent, fertilizer, feedstuff, feedstuff additive wheat flour, milk power, perfume, micro ingredient, coffee, gourmet power, salt, plastic and all kinds of pulp, power material.

■ 技术参数 Technical parameters

型号规格 model & specs(m³)	单位 unit	WZ-0.05	WZ-0.1	WZ-0.3	WZ-0.5	WZ-1	WZ-2	WZ-3	WZ-4	WZ-6
一次混合 mixed amount/batch(kg)	kg	24-30	40-60	120-180	200-300	400-600	800-1200	1200-1800	1600-2400	2400-3600
装机功率 equipped power(kW)	kW	2.2	3	4-5.5	5.5-7.5	7.5-15	15-18.5	18.5-22	22-30	30-37
设备重量 weight(kg)	kg	250	360	750	880	2100	2740	3800	5100	6600

注：以上产品材质分碳钢C、不锈钢P。
Note:The above-mentioned products can be made in carbonaceous steel C or stainless steel P.

WLDH 系列卧式螺带混合机

WLDH Series Horizontal Ribbon Mixer



原理 Principle

该机型由容器、螺旋搅拌叶片和传动部件组成；螺旋叶片一般做成双层或三层,外层螺旋将物料从两侧向中央汇集,内层螺旋将物料从中央向两侧输送,形成对流混合。容积可做成圆形,以便夹套用于反应、干燥。
This machine is composed of container, screw stirring paddles and transitional parts; the screw paddle are generally made into 1 layer or 3 layers, the outer screw converge is the material to the centre front two sides, and the inner layer of screw conveys the material to the two sides from the centre, so as to form convection mixing. The cubage can be made into rotundity, so the jacket can be played in reaction and drying.

应用 Applications

螺带混合机一般用于粘性或有凝聚性的粉粒体的混合以及粉粒体中添加液体及糊状物料的混合,同时由于粘性物料清洗困难的特点,适用于产量大、不经常更换品种的场所混合。

The ribbon mixer is generally used in the mixing of viscous or adhesive powder material, or the mixing of powder which needs to add liquid, and paste material. Meanwhile, because it is difficult to clean viscous material, the machine is suitable for the mixing case, where the output is large and there is no need of displacing material variety frequently.

特点 Features

装载系数大、设备占地面积小。
Big coefficient of loading, small occupied area.

技术参数 Technical parameters

型号规格 Model & Specs m³	WLDH-0.1	WLDH-0.3	WLDH-0.5	WLDH-1	WLDH-1.5	WLDH-2	WLDH-3	WLDH-4	WLDH-6	WLDH-8	WLDH-10
一次混合 Mixed amount/batch Kg	30-50	100-150	200-300	400-600	600-900	800-1200	1200-1800	1600-2400	2400-3600	3200-4800	4000-6000
装机功率 Equipped power Kw	1.5-4	3-5.5	4-11	7.5-15	11-18.5	15-22	18.5-30	22-37	37-55	37-55	45-75
设备重量 Dead Weight Kg	420	850	1060	1790	1900	2750	3500	4280	5300	6800	7800

上述产品按客户要求由A,钢或不锈钢制造。
The above-mentioned products can be made in A, steel or stainless steel acc. To customer's requirements.

LDH系列犁刀式混合机 LDH Series Coulter Mixing Machine

概述 Descriptions 特点 Features

该机型由传动机构、卧式筒体、犁刀、飞刀四部分组成；物料在犁刀作用下沿筒壁作轴向流动,当物料流经飞刀时被高速旋转的飞刀抛洒,从而在较短时间内达到均匀混合。

This machine is composed of transmission apparatus, horizontal cylinder, coulter flying cutter, under the action of coulter, the material conducts a turbulent flow circumferentially along the cylinder wall, and the materials is thrown and sprinkled by the rotating flying-cutter at a high speed when it flows through the flying cutter, thus the material is mixed evenly in a shorter time.

- 混合时间短、对粒度、密度差异大的物料混合有较好的适应性。
- 结构特点特别适合加液混合和造湿粒,粒径在0.3-3mm之间。
- The mixing time is short. It has a better adaptability to the mixing of th materials, which has large differences in size and specific gravity.
- Its construction feature is that it is especially suitable for liquidadding mixing or granulating wet particle, the size is between 0.3-3mm.

应用 Applications

应用于化工、医药、兽药、食品、饲料、饲料添加剂、塑料等行业固-固(粉体与粉体),固-液(粉体中添加少量液体)的混合以及造湿粒、干燥等复合工艺;尤其适用于粘性或胶状添加剂的混合。

It is suitable for the mixing of solid-solid(powder and powder),solid-liquid (adding a small amount of liquid into the powder) and some compound technology.Process such as granulating wet particle and drying, especially it is suitable for the mixing of viscous material or glue-like additive.



技术参数 Technical parameters

型号规格 Model & Specs(m³)	LDH-0.1	LDH-0.3	LDH-0.5	LDH-1	LDH-2	LDH-4	LDH-6	LDH-8	LDH-10	LDH-12	LDH-15
一次混合 Mixed amount/batch(kg)	40-60	120-180	200-300	400-600	800-1200	1600-2400	2400-3600	3200-4800	4000-6000	4800-7200	6000-9000
装机功率 Equipped power(kw)	6	8.4	9.9	23	30.5	38	38	46	53	65	82.5
设备重量 Dead Weight(kg)	430	950	1100	1800	2520	3220	6750	7200	7500	8500	9200

上述产品按客户要求由A,钢或不锈钢制造。
The above-mentioned products can be made in A, steel or stainless steel acc. To customer's requirements.

ZGH 系列立式高速混合机

ZGH Series Of Vertical Speed Mixer



应用 Applications

ZGH型立式高速混合机针对粉体或低湿物料特别设计,混合高效、均匀、无死角;

本机物料接触部分均采用不锈钢制作,搅拌轴设有密封装置,能有效防止串料,保障轴承及各传动部件寿命。

ZGH type (vertical) high speed blender for mixing powder

or powder with small moisture to design. It is a new type high-efficiency, regular and no died angle machine.

The contact parts materials are all stainless steel. The stirring shaft with sealing device to avoid material swap and guarantee bearing and driving medium life.



特点 Features

ZGH型立式高速混合机是集国内外先进技术,最新研制的高效混合机,其主要特点如下:

- 利用安装于机体底部的立式高速转动桨叶形成的离心力并作用于物料,使之形成外围向上翻滚,中心向下凹陷的旋涡状,使物料内、外圈,上、下层充分搅拌混合;
- 利用安装于机器侧壁的高速碎料桨叶,将外围翻滚起来的物料打碎,同时起到扰动的作用,加大物料间的相对运动,提高混合效果;
- 由于上述两种桨叶的共同作用,能使物料在较短时间内达到混合充分、均匀的目的,其效率是国内其它各种混合机都难以比拟的;
- 混合仓无死角,放料迅速,易清洗;
- 该机物料接触部位均采用不锈钢制作,混合过程中不会产生物料挥发、变质或流失等现象,保障了工艺配比要求;
- 该机适用于不同比例的干、湿物料的混合,特别适用于鸡精、药品冲剂、饮料冲剂等多种复杂物料的混合搅拌。

ZGH type(vertical)high speed blender is our company absorb domestic and overseas advanced technology and design newest hig-efficiency machine. It has these characteristic as follows:

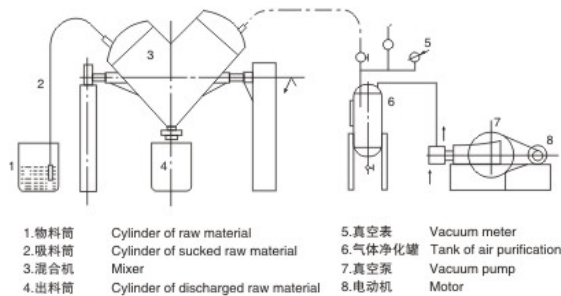
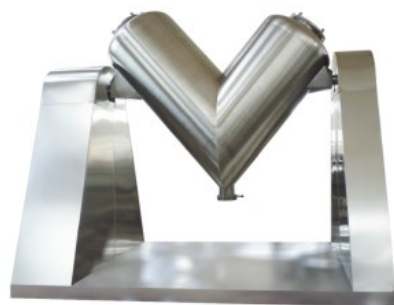
- Use install the bottom's vertical high speed paddle formative centrifugal force impact material, let it outside upward roll and inside downward sunk like volution. Let the material inside, outside, up and down mixing and compound full.
- Use install the parietal's high speed crushed paddle to samrsh roll material of outside, at the same time it is has disturbed function, increase material relative motion, enhance mixing result.
- Due to two paddles' combined action, it is can compound full and uniform at short time. It's efficiency is higher and other mixers are difficult to compare.
- There are no died angles of mix bin. It is emptying quickly and cleaning easy.
- All contact parts of this machine are all stainless steel, when mixing the raw material will not volatilizer, go bad and run off phenomemon. It is ensure craft matching demands.
- The machine are suit fo r different proportional dry or wet raw mate rials to mix. It is specially fo r chicken extract, medicine granule and drink powder to compound.

技术参数 Technical parameters

型号	工作容量	搅拌重量 (KG/次)	装机功率TW (3合电机)	外型尺寸 (MRO)
ZGH-350	350	150	7.87	1500×1090×1200
ZGH-400	400	200	8.07	1500×1090×1300
ZGH-850	850	400	1087	1718×1320×1400

注:表中产量因物料比重目数差异其产量仅供参考。
Notes:The output listed in the table is for reference only because of the difference of the specific gravity and mesh.

V 型系列混合机
V Series Mixers



■ 概述 Descriptions

本机适用于制药、化工、食品等行业两种以上干粉状、颗粒状物料的混和。

该机混和筒结构独特，混和效率高、无死角，采用不锈钢材料制作，内外壁抛光处理，外形美观，混和均匀，适用面较宽，并能根据用户的要求配套强制搅拌器，以适合较细的粉粒、块状、含有一定水份的物料混合之用。

This machine is suitable for mixing two or more dry and powder or granule raw materials from pharmaceutical industry, chemical industry, foodstuff industry and so on. The structure of this machine is unique. Its mixing efficiency is high and no dead corner. It is made of stainless steel. Its inner and outer wall is processed through polishing. Its appearance is beauty. Its mixing is uniform. Its scope of application is wide. The forced stirrer can also be equipped in order to meet the requirements of raw materials that contain fine powder, cake and certain moisture as request.

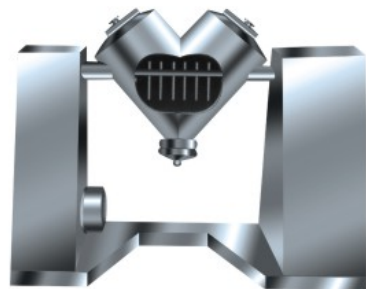
■ 技术参数 Technical parameters

型号规格 Model and specification	V-0.18	V-0.3	V-0.5	V-1.0	V-1.5	V-2.0	V-2.5	V-3.0	V-4.0	V-5.0	V-6
生产能力 Productive capacity (kg/time)	72	90	150	300	450	600	800	900	1200	1500	1800
配用真空泵型号 Model of vacuum pump	W2	W2	W2	W3	W3	W3	W3	W4	W4	W4	W4
进料时间 Time of raw material fed in (min)	3-5	3-5	4-6	6-9	6-10	8-13	8-15	8-12	10-15	15-20	18-25
混合时间 Mixing time (min)	4-8	6-10	6-10	6-10	6-10	6-10	6-10	8-12	8-12	8-12	8-12
全容积 Total volume (m³)	0.18	0.3	0.5	1.0	1.5	2.0	2.5	3.0	4.0	5.0	6.0
搅拌速度 Stirring speed (r/min)	12	12	12	12	12	12	12	10	10	10	10
电机功率 Power of motor (kw)	1.1	1.1	1.5	3	4	5.5	7.5	7.5	11	15	18.5
回转高度 Rotating height (mm)	1580	2160	2360	2600	2800	2900	3000	3200	4000	4500	5000
重量 Weight (kg)	280	320	550	950	1020	1600	2040	2300	2800	3250	3850

Vi型系列强制搅拌混合机
VI series forced stirring mixer

■ 概述 Descriptions

- 本厂引进吸收消化国外新技术，研制了VI型强制搅拌混合机。
- 该机对较细的粉粒，凝块后或二种以上的粉状体，含有一定水份的物料均能混合。如对微量物相和的添加物也可达到混和效果(指添加量很少的配料混和)。
- Our factory researched and manufactured Model VI forced stirring mixer on the basis of absorbing abroad high technology.
- This machine can mix fine powder, caked or more two powder raw materials, raw material containing certain moisture. Particularly it can also mix raw material that needs to add small amount of additive and satisfied effect can be got too.



■ 技术参数 Technical parameters

型号 Model	生产能力 Productive capacity (kg/time)	全容积 Total volume (m³)	混合时间 Mixing time (min)	功率 Power (kw)	筒体转速 Revolution of cylinder (r/min)	搅拌转速 Stirring speed (r/min)	外形尺寸 Overall dimensions (mm)	重量 Weight (kg)
VI-180	60	0.18	2-5	1.1×2	12	500	1730×700×1580	320
VI-300	80	0.3	4-10	1.1×2.2	12	500	2005×700×1760	360
VI-500	130	0.5	4-10	1.1×2.2	12	500	2660×1250×2400	600
VI-1000	240	1	6-10	3×2.2	12	500	3220×1500×2840	1000

B型万能粉碎机
B Series Universal Grinder



■ 特点 Features

- 本机适用于医药、化工、食品、农药等行业脆性物料的粉碎，用途极为广泛。
- 本机利用活动齿盘和固定齿盘间的高速相对运动，使被粉碎物经齿冲击、摩擦及物料彼此间冲击等综合作用获得粉碎。
- This machine has wide application and is wide used for pharmaceutical industry, chemical industry, pesticide industry, foodstuff industry, grain industry and so on.
- This machine uses the relative motion between movable and fixed teech disc, the raw materials to be crushed undertakes the comprehensive actions such as impacted by teech, friction, impacted between raw materials, finally the raw materials are crushed.



■ 技术参数 Technical parameters

型号 Model	20B	30B	40B	60B
生产能力 Productive capacity (kg/h)	60 ~ 150	100 ~ 300	160 ~ 800	500 ~ 1500
主轴转速 Revolution of main shaft (r.p.m)	4500	3800	3400	2800
最大进料粒度 Max size of raw material to be fed (mm)	6	10	12	15
成品细度 Degree of fineness of finished product (目)	60-120	60-120	60-120	60-120
电机功率 Power of Motor (kw)	4	5.5	11	18.5
重量 Weight(kg)	250	320	550	680
吸尘风机 Fan power(kw)	0.75	0.75	0.75	0.75
外形尺寸 Overall dimension(L×W×H)(mm)	350×600×1250	600×700×1450	800×900×1550	1000×900×1680
外形尺寸 Overall dimension(L×W×H)(mm)	1100×600×1650	1200×650×1650	1400×700×2310	1600×800×2400

WFJ系列微粉碎机/CWFJ系列超微粉碎机
WFJ Series Fine Grinder/CWFJ Series Super Fine Grinder



■ 概述 Descriptions

这两种系列微粉碎机和超微粉碎机由主机、辅机、电控三个部分组成，设计紧凑，结构合理，具有风选式，无筛无网。机内装有分级机构，能使粉碎，分级一次完成。负压输送使粉碎作业时机腔内产生的热量源源不断地排出，故也适用于热敏性物料的粉碎。本机适应范围广，生产过程连续进行，出料粒度可调；能处理如：化学制品、食品、药品、化妆品、染料、树脂、壳物等多种物料的粉碎及分级。

WFJ series fine grinder or CWFJ super fine grinder consists of three parts i.e. main machine, auxiliary machine and electric control. Its features are compact in design, reasonable in structure. Its principle is using air to chose and no sieve or screen. Being installed grading mechanism inside the machine, the crushing and grading can be finished at the same time. When use negative pressure to transport in the operation of crushing, the heat produced from the chamber will be remo-ved continuously. Therefore it can also be suitable for crushing thermal sensitive raw materials. The scope of application of machine is wide. Its productive process is continuous and its size of granule can be adjusted. It can crush and grade many raw materials such as chemicals, foodstuff, medicines, cosmetic, dyestuff, resin, shell materials and so on.

■ 技术参数 Technical parameters

规格型号 Specification and model	WFJ-15	WFJ-18	WFJ-36	CWFJ-15	CWFJ-18	CWFJ-36
生产能力 Productive capacity(kg/h)	10 ~ 200	20 ~ 450	60 ~ 1000	10 ~ 200	20 ~ 450	60 ~ 1000
进料粒径 Size of raw material to be fed(mm)	< 10	< 12	< 15	< 10	< 12	< 15
出料粒度(目) Size of raw material to be discharged (mesh)	80 ~ 320	80 ~ 450	80 ~ 450	120 ~ 1400	120 ~ 1400	120 ~ 1400
总功率 Total power (kw)	13.5	17.5	38	18.67	31.7	46
主转速 Main revolution(r/min)	4500	4480	4000			
外型尺寸 Overall dimensions (L×W×H)(mm)	5410×1660×2500	5500×1800×3100	9000×2200×4000	5510×2130×3115	5800×2500×3500	9000×2800×4000

ZF型中草药粉碎机
ZF Series Roughness Grinder

应用 Applications

该机具有技术性能稳定、产量高、外形美观。适用范围广等特点。本机对于粉碎干燥纤维性物料具有较理想的效果。与国内其他机型相比，制品温度低，粒度均匀，特别适用于食糖、塑料粉末、中药等热敏性物料的粉碎。

The machine has stable technical performance, high production capacity and beautiful shape. It has large of application. It can get very ideal result to pulverize the drying fibre material. It is suitable for heat sensitivity materials such as sugar, plastic powder and Chinese traditional medicine.

技术参数 Technical parameters

型号 (model)	300	400	500
主轴转速 (main shaft speed)	4500转/分 (rpm)	3800转/分 (rpm)	3400转/分 (rpm)
主机电机功率 (main motor power)	7.5千瓦 (kw)	7.5千瓦 (kw)	7.5千瓦 (kw)
关风机电机功率 (discharging valve motor power)	0.3千瓦 (kw)	0.3千瓦 (kw)	0.3千瓦 (kw)
引风机电机功率 (draught fan motor power)	11千瓦 (kw)	11千瓦 (kw)	13千瓦 (kw)
进料粒度 (feed grain degree)	6mm	6mm	6mm
粉碎细度 (pulverizing fineness)	80-350目 (任意可调eye will)	80-350目 (任意可调eye will)	80-350目 (任意可调eye will)
粉碎能力 (pulverizing capacity)	40-120公斤/小时 (kg/h)	60-150公斤/小时 (kg/h)	100-200公斤/小时 (kg/h)
外型尺寸 (长x宽x高)	1100x700x1650	1100x750x1600	1350x800x1700



CSJ系列粗粉碎机
CSJ Series Roughness Grinder

应用 Applications

该机适用于医药、化工、食品、冶金、建筑等行业。对坚硬、难粉碎的物料进行加工，包括对塑料、树根进行粉碎，也能作为微粉碎加工前道工序的配套设备。

The machine is suitable for the industries such as pharma-ceutical industry, chemical industry, foodstuff, metallurgical industry, construction industry and so on. For the grinding process of hard material which is difficult to be grinded, including the grinding of plastics and tree roots, it can also be used as the completing equipment for the preceding process of fine grinding.

特点 Features

采用卧式结构，主轴由滚动轴承支撑，轴上安装12把动刀，机壳中有1把定刀，动刀在机壳中快速旋转，对物料进行快速剪切，达到粉碎目的。物料由进料斗进进粉碎室，旋转刀和固定刀同时剪切粉碎，物料自动流向出料口。

该机采用立式粉碎机构，不受物料粘度、硬度等的限制。对任何物料都能起到较好的粉碎效果。

A horizontal structure, main shaft is supported by the rolling bearings, and 12 pieces of cutters are assembled on the shaft. Inside of the casing of the machine, there is equipped a fixed cutter. The rotating cutters rotate speedily in the casing to exert speedy shearing to the material as to reach the grinding objective. The material is fed into inversely the grinding chamber, and the material is sheared and grinded by the rotating cutters and the fixed cutter. The material will flow to the outlet of the machine automatically.

The machine adopts a horizontal grinding structure, not limited by the viscosity and the hardness of the material. It can gain a very good effect for any material.

技术参数 Technical parameters

型号 type	进料粒度 (mm) inlet material diameter	出料颗粒 (mm) output diameter	产量 (kg/h) output	功率 (kw) power	主轴转速 (rpm) speed of shaft	外型尺寸 (mm) overall dimension
CSJ-250	≤100	0.5-20	50-300	4	940	860×650×1020
CSJ-500	≤100	0.5-20	80-800	11	1000	1120×1060×1050



FS系列方形筛
FS Series Square Sieve



概述 Descriptions

FS系列方型筛，是我公司自行开发研制的新一代筛粉设备，该机以它独有的高效、节能、低噪音等特性深受广大用户的欢迎，广泛适用于医药、化工、食品等行业的各种物料连续过筛，根据用户需要可制做成1-4层筛面。

该机具有结构简单，操作方便、体积小、处理量大、噪音低、抗腐蚀、低故障、寿命长、生产效率高、振幅可调、耗能低、拆装方便、清洗无死角、无粉尘飞扬等特点。

FS series square sieve is new generation sieving equipment researched and developed and manufactured by our factory in 1999. Because of its unique characteristics, i.e. high effective, energy saving, low noise and so on, customers welcome it deeply. It is wide suitable for sieving raw material continuously of pharmaceutical industry, chemical industry, foodstuff industry and so on. 1-4 layer of sieve can be installed in accordance with the requirements of customers.

技术参数 Technical parameters

型号规格 Model and specifications	功率 Power (kw)	筛面倾斜 Inclined angle of sieve surface	电压 Voltage (v)	筛面层数 Layers of sieve surface	过筛目数(目) (Mesh)	外形尺寸 Overall dimension (mm)	重量 Weight (kg)	产量 Output (kg/h)
FS0.6×1.5	0.4	0° ~ 45° 可调 adjustable	380	1 ~ 4	6 ~ 120	1500×700×700	550	150 ~ 1500
FS0.65×2.0	0.4	0° ~ 45° 可调 adjustable	380	1 ~ 4	6 ~ 120	2100×750×780	650	160 ~ 2000

注：表中产量因物料比重目数差异其产量仅供参考。
Notes: The output listed in the table is for reference only because of the difference of the specific gravity and mesh.



ZS系列振荡筛
ZS Series Vibration Screen (Sieve)

概述 Descriptions

本机是目前国内使用较为广泛的高效筛分设备，它采用振动原理实现物料大批量筛选，该机可广泛应用于冶金、化工、制药、粮食等行业。

This machine is high effective sieving equipment used wide in China now. It adapts the principle of vibration to realize the sieving of plenty of raw materials. It is wide used for metallurgy industry, chemical industry, pharmaceutical industry, grain industry and so on.

技术参数 Technical parameters

型号 Model	生产能力 Production capacity (kg/h)	过筛目数(目) (Mesh)	电动功率 Power of motor (kw)	主轴转速 Revolution of main shaft (r/min)	外形尺寸(毫米) Overall dimensions (mm)	净重 Net weight (kg)
ZS-350	60 ~ 500	12 ~ 200	0.55	1380	540×540×1060	100
ZS-515	60 ~ 1300	12 ~ 200	0.75	1370	710×710×1290	180
ZS-650	180 ~ 2000	12 ~ 200	1.5	1370	880×880×1350	250
ZS-800	200 ~ 2500	5 ~ 325	1.5	1500	900×900×1200	300
ZS-1000	200 ~ 3500	5 ~ 325	1.5	1500	1100×1100×1200	400
ZS-1500	200 ~ 4500	5 ~ 325	2	1500	1600×1600×1200	900



JRF系列燃煤热风炉

JRF Series Coal Combustion Hot Air Furnace

应用 Applications

该炉为通用性热风装置，与各种物料的干燥设备配套使用。广泛用于粮食、种子、饲料、果品、脱水蔬菜、香菇、木耳、银耳、茶叶、烟叶等农产品、食品、医药品、化工原料、轻重工业产品的加热除湿，还可用于各种设施的加热以及库房除湿等。

The furnace is the versatile hot air equipment. It is used with other equipment for drying various materials. The furnace is widely used for the heating and moisture removing for the grain, seed, feed, fruit, de-watering vegetable, mushroom, edible fungus, tremella, tea, tobacco leaf, other farming products, food, medicine, chemical raw material, light and heavy industry products.

原理 Principle

该炉集燃烧与换热为一体以炉体高温部位进行换热的最新间接加热技术，烟和空气各行其道，加热绝对无污染，热效率高达(60-75%)，升温快，体积小，安装方便，使用可靠，且价格低(与一吨锅炉相比，该加热系统只相当于锅炉加热系统价格的一半)。

The furnace combines the combustion with the heat exchange, using the latest indirect heating technology that the heat exchange is taken place at the position of the high temperature in the furnace. The smoke and the air go into the different channels, without any pollution for the heating. The heat efficiency rate is high (up to 60-75%).The temperature increase is fast. The furnace is small in size, easy in the installation, reliable in the operation and low in the price (making a comparison with one ton boiler, the price of this system is only half price of the heating system for the boiler).

技术参数 Technical parameters

型号规格 type	技术参数 technical parameter heat output	输出热量 heat amount output × 10 ⁵ Kcal/h	输出风量 air amount output (m ³ /h)	耗煤量 coal combustion capacity(kg/h)	热风温度 hot air temperature(°C)	引风机型号 cocking blower for cocking
JRF4-2.5		1.045 × 10 ⁵	1500-560	60-200	10-12	炊事用鼓风机 80-100w
JRF4-4		1.672 × 10 ⁵	3500-930	60-200	14-17	炊事用鼓风机 200-300w
JRF4-8		3.344 × 10 ⁵	5600-1480	60-200	18-24	Y5-47 No.2.8C 1.1kw
JRF5-15		6.270 × 10 ⁵	12000-2160	60-250	40-45	Y5-47 No.4C 2.2kw
JRF5-30		12.54 × 10 ⁵	25000-4330	60-250	80-85	Y5-47 No.4C 3.0kw
JRF5-40		16.72 × 10 ⁵	28000-5600	60-250	115-125	Y5-47 No.4C 3.0kw
JRF5-60		25.08 × 10 ⁵	45000-8660	60-250	160-170	Y5-47 No.4C 3.0kw
JRF6-80		33.44 × 10 ⁵	83000-12500	60-350	240-250	GY2-1 11kw
JRF6-160		66.88 × 10 ⁵	134400-23000	60-350	480-490	GY4-1 18.5kw
JRF6-200		83.60 × 10 ⁵	170000-28000	60-350	600-620	GY4-1 18.5kw

- 注：
- 1、环境基准温度标准按18℃±2℃。煤的热值以5500kcal/kg计算。
 - 2、表中热风温度是按输出风量确定的。热风输出温度高于300℃时，热风炉内壁采用不锈钢等耐高温材料制作，价格另议。
 - 3、设备外形布置图来函备索。

- Note：
1. The environmental datum temperature standard takes 18 ± 2℃.The thermal value for the coal takes 5500kcal/kg for the calculation.
 2. The hot air temperature in the table is decided according to the air output. When the temperature is more than 300℃,the internal will be made from stainless steel, but its price is different.
 3. The layOut of equipment will be provided as requst.



RYL系列燃油、燃气热风炉

RYL Series Oil Fuel, Gas Fuel Hot Air Furnace

概述 Descriptions

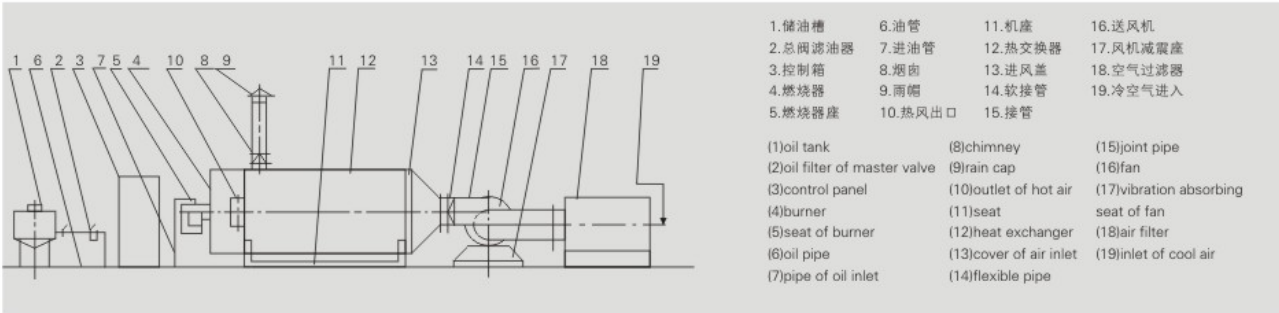
燃料通过燃烧器燃烧，产生高温燃气。并借助具有强化换热措施的热风炉将高温燃气的热量传导给被加热的空气，高温燃气经热量散发后温度降低至250℃后排出大气中。需加热的空气通过选配的鼓风机强送入热风炉，吸热后温度升至额定值从热风出口处送出，当热风温度达到额定温度上限时，燃烧器会自动停止燃烧或自动转为小火焰燃烧，当热风温度降低到额定下限温度时，燃烧器又会重新点燃运行或转为大火燃烧，升温的速度可以调节进风阀的开启来实现。

The fuel is burnt at firebox and the high temperature is produced. The quantity of heat will conduct to air to be heated through heat exchange device. Through heat exchange, the temperature of air is dropped to less than 250℃ and the air will be discharged. The air to be heated is sent to hot air furnace through distribution blow fan. After absorbed heat to the rated value, the air will be sent from the vent of hot air. When the temperature of hot air reaches the rated upper limit, the burner can stop or turn to small fire automatically. When the temperature of hot air drops to the rated low limit, the burner can burn or turn to big fire automatically.

特点 Features

广泛应用于制药、化工、食品、纺织印染、粮食加工、木材加工、汽车等工业领域各种产品的干燥、固化、热定型等作业。

It is wide used for heating, damp removing of pharmaceutical industry, foodstuff, textile, printing and dyeing, food, grain processing, atuomobile and so on.



技术参数 Technical parameters

型号 Model	参数 Parameter	输出热量 Output calorie (kJ/h)	输出风量 Output air amount (m ³ /h)	输出温度 Output temperature (°C)	耗油量 Oil consumption (kg/h)	燃烧器的型号 Type of combustor
RYL-2.5		1.045 × 10 ⁵	1500 ~ 560	60 ~ 200	10-12	M4
RYL-4		1.672 × 10 ⁵	3500 ~ 930	60 ~ 200	14-17	M8
RYL-8		3.344 × 10 ⁵	5600 ~ 1480	60 ~ 200	18-24	M12
RYL-15		6.270 × 10 ⁵	12000 ~ 2160	60 ~ 250	40-45	M20
RYL-30		12.54 × 10 ⁵	25000 ~ 4330	60 ~ 250	80-85	MP35AB
RYL-40		16.72 × 10 ⁵	28000 ~ 5600	60 ~ 250	115-125	MP45AB
RYL-60		25.08 × 10 ⁵	45000 ~ 8660	60 ~ 250	160-170	MP80AB
RYL-80		33.44 × 10 ⁵	83000 ~ 12500	60 ~ 350	240-250	MP130AB
RYL-160		66.88 × 10 ⁵	134400 ~ 23000	60 ~ 350	480-490	MP200AB
RYL-200		83.60 × 10 ⁵	170000 ~ 28000	60 ~ 350	600-620	MP300AB

注：1.输出温度指输入温度在20℃时的温升值。2.油的燃烧值按4800KJ/kg计算。
Notes: 1.The outlet temperature is based on the input temperature of 20℃. 2. The oil consumption is based on 4800KJ/kg.

ZSL-III 系列真空上料机
ZSL-III Serial Vacuum Feeder

■ 概述 Descriptions

ZSL-III 系列真空上料机是我公司最新开发研制的第三代新型真空上料机，它具有上料速度快、使用周期长、操作方便、清洁卫生，符合GMP要求。

Model ZSIII serial vacuum feeder is a third-generation new-type vacuum feeder recently developed by our company. it has advantages of fast feeding, long service period, simple operation, clean and in conformity with GMP requirement.

■ 应用 Applications

- 用于粉状、小颗粒状($\phi < 5\text{mm}$)及球状物料。
- 用于二维、三维、双锥、V型等各种密闭容器和设备的上料。
- Used for powder, small grain and ball materials with diameter less than 5mm.
- Used for materials feeding for various kinds of sealed containers and equipments such as two-dimension, three-dimension, double-cone, V-shaped etc.

■ 特点 Features

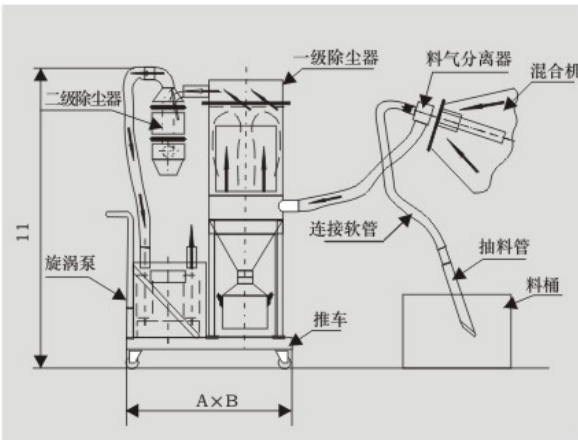
- 上料速度快。
- 连续工作时间长。
- 无泄漏现象，清洁卫生，适合于洁净厂房。
- 结构紧凑、移动方便、操作简单。
- 装有快装卡箍，便于拆装和清洗，符合要求。
- Fast feeding of materials.
- Long time for continuous working.
- No leakage, clean and healthy, suitable for clean workshop.
- Compact size, easy moving and simple operation.
- Equipped with fast-feeding clamping and facilitating assembling, disassembling and cleaning and in conformity with the requirement.

■ 技术参数 Technical parameters

参数 Data	型号 Model	ZSL-III-2.2	ZSL-III-3.0	ZSL-III-4.0	ZSL-III-5.5	ZSL-III-7.5
工作压力 Working Pressure(kpa)		<18	<20	<22	<28	<31
风量 Air Volume(m^3/h)		210	300	330	370	480
功率 Power(kw)		2.2	3.0	4.0	5.5	7.5
输送能力 Transporting Capacity(kg/h)		900-1200	1200-1500	1500-1800	1800-2100	2100-2400



■ 结构示意图 Skech of oven



MC系列脉冲布袋除尘器
MC Series Plus Dust Filter With Cloth Bag



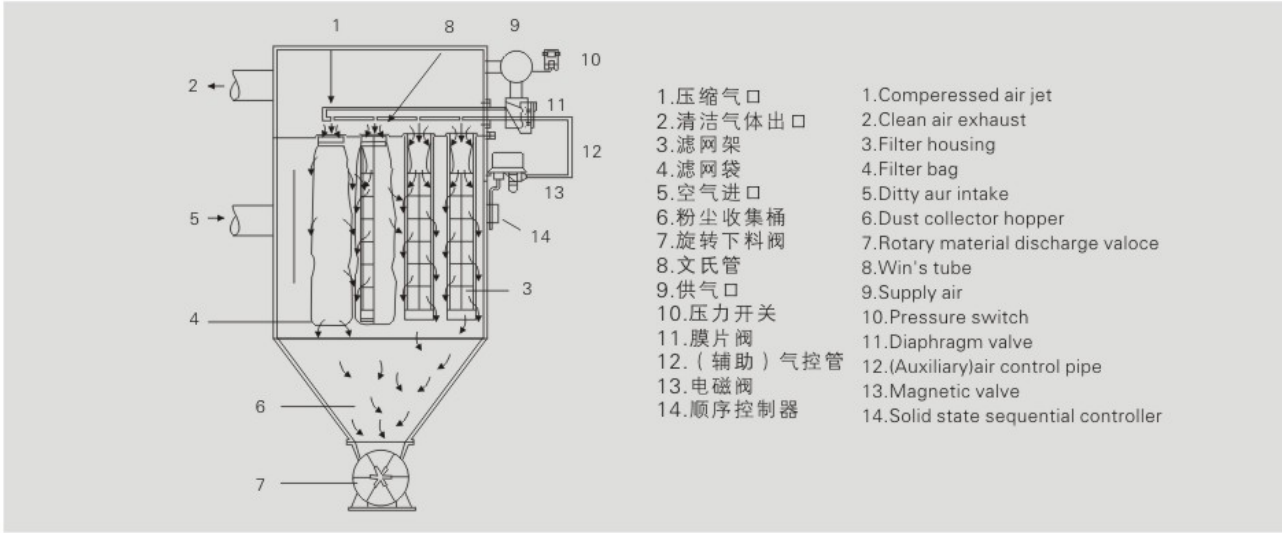
■ 原理 Principle

含尘气流从进气口进入下箱体后，部分沉淀，轻微粉尘浮动时被滤袋阻留，经文氏管进入上箱体，从出气口排出。积附在滤袋外壁的粉尘不断增加，在限定的阻力范围内，应该清除积附在滤袋外壁的粉尘，清灰是由控制仪定期顺序触发各控制阀，使气包内的压缩空气由喷嘴孔喷出（一次风）通过文氏管诱导数倍于一次风的周围空气（二次风）进入滤袋，使滤袋在一瞬间急剧膨胀并伴随着气流的反向作用，被抖落的粉尘落入灰门经排灰阀排出机体。

■ 应用 Applications

广泛应用于食品、化工、制药、冶金、饲料等行业的通风除尘和粉尘回收。
The equipment is widely used for ventilation and degusting and recovering powder dust of metallurgy industry, casting industry, mine, chemical industry, and pharmaceutical industry, construction material industry, fed industry and grain processing industry and so on.

■ 结构示意图 Skech of oven



■ 技术参数 Technical parameters

参数Parameter	型号Type	MC24	MC36	MC48	MC60	MC72	MC84	MC96	MC120
过滤面积Filtering area(m^2)		18	27	36	45	54	63	72	90
滤袋数量(只)Filtering bag number(piece)		24	36	48	60	72	84	96	120
过滤风速Filtering air speed(m/s)		2 ~ 4	2 ~ 4	2 ~ 4	2 ~ 4	2 ~ 4	2 ~ 4	2 ~ 4	2 ~ 4
过滤风量 Filtering air volume(m^3/h)		2160-4300	3250-6480	4320-8630	5400-10800	6450-12900	7550-15100	8650-17300	10800-20800
最大外形尺寸(mm) Max.Overall dimension	长 Long	1025	1425	1820	2225	2625	3025	3582	4385
	宽 × 高 Wide × high	1678 × 3660							
清灰装置 Dust remover	脉冲阀数量Pulse valve number	4	6	8	10	12	14	16	20
	耗用压缩空气量 Compressed air consumption m^3	0.07 ~ 0.30	0.11 ~ 0.40	0.15 ~ 0.50	0.18 ~ 0.60	0.22 ~ 0.60	0.25 ~ 0.90	0.29 ~ 0.90	0.37 ~ 0.90
	压缩空气压力 Compressed air pressure kg/cm^2	0.5-0.8							



WZ₁ 单效外循环蒸发器 (能回收酒精)
WZ₁ Single-effect external circulation evaporator

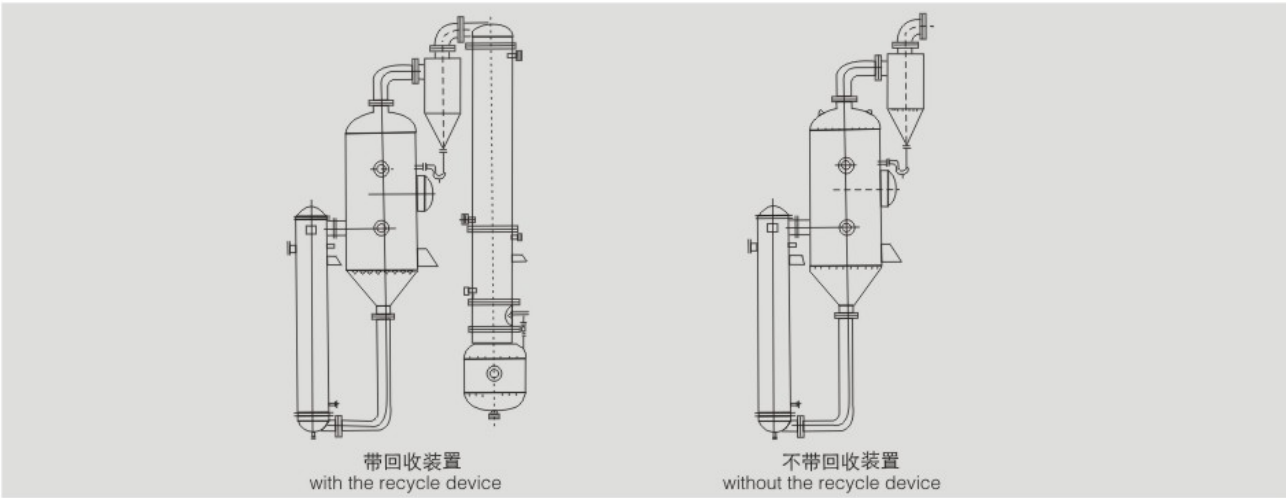
应用 Applications

本设备适用于制药、食品、化工、轻工等行业液体物料的蒸发浓缩工艺过程。 This equipment is applicable for the evaporating and concentrating technological process of liquid materials in pharmaceutical, food, chemical and light industries.

特点 Features

- 本设备主要由列管式外加热器和真空蒸发器及辅助装置组成，物料受热时间短，蒸发速度快，能较好地保持热敏性物料有效物。
- 本设备采用两级除沫，显著减少料液损失。
- 结构简单，清洗方便。
- 浓缩比重大，最大比重可达1.35。
- 凡与物料接触处均采用优质不锈钢制作，符合制药、食品卫生要求。
- This equipment consists of external shell and tube heaters, vacuum evaporators and other assist devices. Heating period of material is short. Evaporation is fast, which can maintain the effectiveness of thermo sensitive materials.
- This equipment adopts two-stage entrainment eliminating to reduce the loss of liquid.
- Simple structure and it is convenient to clean.
- Concentration rate is high up to 1.35.
- The parts that have direct contact with materials are made of high quality stainless steel, which meets the requirements of pharmaceutical and food hygiene.

结构示意图 Skech of oven



技术参数 Technical parameters

型号Model	WZ ₁ -350	WZ ₁ -500	WZ ₁ -700	WZ ₁ -1000	WZ ₁ -1500	WZ ₁ -2000
蒸发量 Evaporating quantity(kg/h)	350	500	700	1000	1500	2000
蒸汽压力 Steam pressure(Mpa)	0.25	0.25	0.25	0.25	0.25	0.25
加热面积 Heating area (m ²)	7	8	10.5	18	25	35
冷凝面积 Condensing area (m ²)	13	16	20	30	50	70
冷却面积 Cooling area (m ²)	1.5	2	3	5	7	10
真空度 Vacuum degree (Mpa)	0.08	0.08	0.08	0.08	0.08	0.08

SJN 系列双效浓缩器



应用 Applications

本浓缩器适用于中药、西药、葡萄糖、淀粉、味精、食乳品、化工等液体的浓缩，尤其适用于热敏性物料的低温真空浓缩。我公司经过精心计算，周密设计改进后，比原来的特点效益更多。

设备组成

双效浓缩器主要由两个列管式加热器、两个蒸发室、循环管、冷凝器、受液罐及其他附属设备所组成。

特点 Features

- 1、节能效益，按SJN-1000型计算，一年节约蒸气约3500吨，节约冷却水9万吨左右，节约电8万度左右，折合人民币10-15万元。（与单效对比）。
- 2、本浓缩器采用外加热自然型循环式与真空负压蒸发方式，具有蒸发速度快，浓缩比重大，可达1.2-1.35（一般中药浸膏），不需敞口锅收膏。
- 3、本浓缩器采用二效同时蒸发，二次蒸汽得到使用，贵厂既节省了锅炉的投资，节约能源消耗，耗能量与单效浓缩器相比降低50%，不到一年可用节能费中收回本浓缩器的全部投资。
- 4、多功能操作特点：（1）可回收酒精浓度80%左右；（2）单效、二效可以反复并锅收膏；（3）可以间歇、连续进料。
- 5、本浓缩器有特殊构造，浓缩出来的物料具有味道浓，膏质均匀。使物料在密封中无泡沫状态下进行浓缩，不易跑料，减少污染，当天物料当天浓缩，不易结焦，清洗方便，打开加热器上下盖即可清洗，并节约劳力，一人可以操作。
- 6、本浓缩器与物料接触部位均采用不锈钢SUS304制造，加热器、蒸发器外均设有保温层，保温采用聚胺脂发泡，外表面磨砂亚光处理，符合GMP标准。

技术参数 Technical parameters

规格/型号	SJN-500	SJN-1000	SJN-1500	SJN-2000	SJN-3000
蒸发量 (Kg/h)	500	1000	1500	2000	3000
蒸汽压力 (Mp)	0.09-0.25				
蒸汽耗量 (Kg/h)	250	500	750	1000	1500
浓缩比重	1.2-1.4				
蒸发温度 (℃) 一效	80-90				
蒸发温度 (℃) 二效	55-70				
真空度 (Mpa) 一效	-0.06				
真空度 (Mpa) 二效	-0.08				
外型尺寸 (m)	4×1.5×3.3	5×1.6×3.5	6×1.6×3.7	6.5×1.7×4.3	7.5×2×4.5

注：除表系列规格外，亦可根据客户要求另行设计。

SJN 系列三效浓缩器



应用 Applications

本浓缩器适应于中药、西药、葡萄糖、淀粉、味精、食乳品、化工等液体的浓缩，尤其适用于热敏性物料的低温真空浓缩。我公司经过精心计算，周密设计改进后，比原来的特点效益更多。

设备组成

三效浓缩器主要由三个列管式加热器、三个蒸发室、循环管、冷凝器、受液罐及其他附属设备所组成。

特点 Features

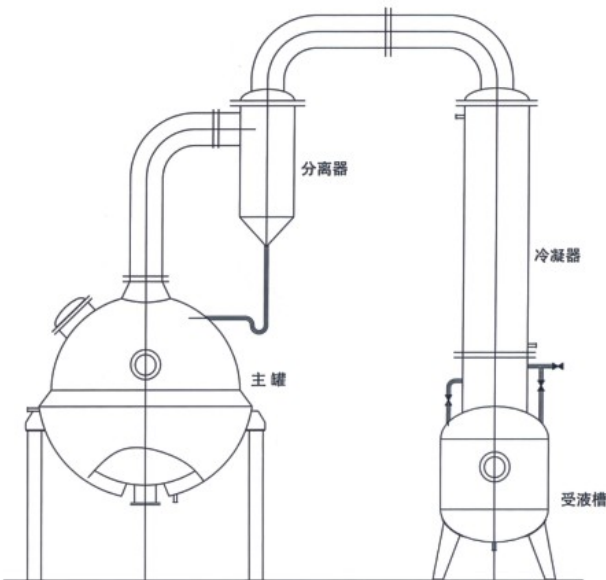
- 1、节能效益，按SJN-1000型计算，一年节约蒸汽约5400吨，冷却水14万吨，节约电13万多度，降低成本近20万元。
- 2、本浓缩器采用外加热自然型循环与真空负压蒸发方式，具有蒸发速度快，浓缩比重大，可达1.4（一般中药浸膏），不需敞口锅收膏。
- 3、本浓缩器采用三效同时蒸发，二次蒸汽行到反复使用，与单效比能耗约降70%，不到一年可用节能费中收回本浓缩器的全部投资。
- 4、多功能操作特点：（1）可以回收酒精浓度在80度左右，（2）三效可以浓缩三种不同的物料。（3）一效、二效、三效、二效、一次可以反复并锅收膏。（4）可以间歇、连接进料浓缩。（5）可以一次成膏，由第一效进料，经过第二效，第三效出来已一次成膏。
- 5、本浓缩器有特殊构造，浓缩出来的物料具有味道浓，膏质均匀。使物料在密封中无泡沫状态下进行浓缩，不易跑料，减少污染，当天物料当天浓缩完毕，不易结焦，清洗方便，打开加热器上下盖即可清洗，并节约劳力，一个可以操作。
- 6、本浓缩器与物料接触部位均采用不锈钢SUS304制造，加热器、蒸发器外面设有保温层，保温采用聚胺脂发泡，外表面磨砂亚光处理，符合GMP标准。

技术参数 Technical parameters

规格/型号	SJN-500	SJN-1000	SJN-1500	SJN-2000	SJN-3000
蒸发量 (Kg/h)	500	1000	1500	2000	3000
蒸汽压力 (Mp)	0.09-0.25				
蒸汽耗量 (Kg/h)	200	400	600	800	1200
蒸发温度 (℃) 一效	80-90				
蒸发温度 (℃) 二效	65-80				
蒸发温度 (℃) 三效	55-65				
真空度 (Mpa) 一效	-0.04				
真空度 (Mpa) 二效	-0.06				
真空度 (Mpa) 三效	-0.08				
外型尺寸 (m)	5×1.3×3	6.5×1.5×3.3	7×1.7×3.5	7.5×2×4	7.8×2×4.3

注：除表系列规格外，亦可根据客户要求另行设计。

QN 系列球形浓缩罐



设备组成

本设备主要由浓缩罐主体、汽液分离器、冷凝器、回收液贮罐等部件组成。

应用 Applications

本设备适用于制药、食品、化工等行业对料液的浓缩，并且可作为回收酒精和简单的回流提取之用。设备与物料接触部分均采用不锈钢制造，具有良好的耐腐蚀性能，符合GMP标准。

特点 Features

- 1. 采用真空减压浓缩，浓缩比重可达到1.4以上，且不会破坏热敏性物料的有效成份。
- 2. 针对特别粘稠的物料，可配置搅拌器以及翻转出料。

技术参数 Technical parameters

参数/型号	QN-200	QN-500	QN-700	QN-1000	QN-1500	QN-2000
蒸发量 (kg/h)	60	110	150	200	300	400
容积 (L)	200	500	700	1000	1500	2000
蒸汽压力 (MPa)	< 0.1					
真空度 (Mpa)	-0.08					
加热面积 (m²)	0.9	1.5	2.1	2.7	3.5	4.0
冷凝面积 (m²)	1.7	3.4	5.0	7.0	8.5	10
外形尺寸 (m)	1.7*0.9*2.3	2.3*1.1*2.6	2.3*1.3*2.6	2.7*1.5*2.9	3*1.6*3	3.1*1.8*3

注：除表系列规格外，亦可根据客户要求另行设计。



立式贮罐

醇沉罐

配制罐



卧式贮罐

可倾锅

反应罐

渗透罐

■ 概述 Descriptions

该系列容器适用于制药行业的浓/稀配之用，罐体设有夹层，可加热、冷却、内表面采用电解镜面抛光，封头（锥形）均经旋压加工、符合GMP标准，搅拌装置采用卫生级机械密封，容器保温采用聚氨酯或珍珠棉，接口采用国际标准快装卡箍式，方便卫生，渡边经旋压加工，外表面采用抛光、喷砂、磨砂或冷轧原色哑光等多种形式，使容器在任何场地都能显示它的卓越品质。设备配备空气呼吸孔，CIP清洗喷光、视镜法兰快开式人孔等装置。

Such series of container are fit for thick/thin mixing of pharmacy industry, the tanker with interlining can heat, cool while the internal surface is eletrolytic mirror finished, the capped ends (taper) are spinning processed which applies GMP standard. The blender equipments apply sanitary mechanical sealing, the heat preservation of such containers adopts polyurethane or pearl cotton, the interfaces apply quick-fitting bar clasp style of international standard which is convenient and sanitary, the edges are spinning processed, the external surface applies grinding, sand blasting, frosted finish or cold rolling primary color matte processing, etc, that makes the container expresses its outstanding quality in any occasion. The device equips with air blowhole, CIP cleaning, blast finishing, sight glass, flange quick-opening manhole and other devices.

根据贮存能力不同由1000-15000L，贮罐能力在20000以上的贮罐，建议使用室外贮罐，贮罐使用SUS304不锈钢制成，根据罐类设计要求可附带装置如下：

- 搅拌器
- 进、出料口
- 人孔
- 温度计
- 液位指示器
- 高、低液位报警孔
- 防蝇、防尘呼吸气孔
- 计量器

As the stockpiling capacity differs from 1000-15000L, the tanks with the stockpiling capacity over 20,000L are advised to be stocked outdoor, the tanks are manufactured using SUS304 stainless steel. According to the design requirements can be attached device type as follows:

- Blender
- Feed port/ discharge hatch
- Manhole
- Thermometer
- Liquid level indicator
- High& low liquid level alarm hole
- Fly& dust-resistant blowhole
- Gauge

输送设备

Transportation Equipment

水平皮带输送机

■ 概述 Descriptions

输送带的材质有：橡胶、橡塑、PVC、PU等多种材质，除用于普通物料的输送外，还可满足耐油、耐腐蚀、防静电等有特殊要求物料的输送。采用专用的食品级输送带，可满足食品、制药、日用化工等行业的要求。

Conveyor belt material are: rubber, plastics, PVC, PU and other materials, except for ordinary material conveying, and also can meet the oil resistant, corrosion resistant, antistatic etc have special requirements of material conveying. Using special food grade conveyor belt, can meet the requirement of food, pharmacy, daily chemical and other industries.

驱动方式有：减速电机驱动、电动滚筒驱动。

调速方式有：变频调速、无级变速等。

机架材质有：碳钢、不锈钢、铝型材。

Driving mode : reduction motor drive, electric roller drive.

Speed control mode : frequency control of motor speed, stepless variable speed, etc.

Frame materials: carbon steel, stainless steel, aluminum.

■ 特点 Features

输送平稳，物料与输送带没有相对运动，能够避免输送物的损坏。噪音较小，适合于工作环境要求比较安静的场合。

Smooth delivery, materials and conveyor belt is no relative motion, to avoid physical damage. Noise smaller, suitable for requiring more quiet working environment.



提升皮带输送机

■ 概述 Descriptions

带挡板、裙边式皮带输送机是在输送带上增设提升挡板、裙边等附件,用来水平或提升输送散状物料。广泛运用于化工、食品、制药等行业，可以用来向反应釜、包装机料仓的投料，也可以用在各种设备之间物料的连接输送。其输送量大，结构简单，维护方便，成本低，功耗小，又不会损坏被输送物体，是传统的螺旋输送机，斗式提升机的最佳更新替换产品。

Brings the back plate, the skirt is on the conveyor belt of accessories, such as lifting, skirt or promotion conveying material used to level. Widely used in chemical, food, pharmaceutical and other industries, can be used to the reaction kettle feeding bin, packaging machine, also can be used in all sorts of equipment connection material transportation. ,due to its simple structure, easy maintenance, low cost, low consumption, and will not damage the object to be delivered, is one of the traditional screw conveyor, bucket elevator best update replacement products.



BGB高效薄膜包衣机

BGB Series Efficient Intelligent Coating Machine



概 述 Description

包衣机在包衣过程在主机的空间内完成，无粉尘飞散，浆液飞溅，改善了作业环境，药片交叉污染小，符合“GMP”标准；药片包衣工艺简单，大幅度缩短了包衣时间，生产效率高；包衣功能齐全，广泛应用于制药、生物制品等领域，可为各种片剂、丸剂、等包制各种有机薄膜，水溶薄膜和糖衣（在药物方面可实现缓、控释作用），具有效率高、包衣过程自动控制、耗能低、占地小等优点。

In coating machine is accomplished within the space of the host, no dust flying, serous splash, improved the working environment, small tablets cross contamination, conforms to "GMP" standard; Tablets coating process simple, greatly shortens the time of coating and high production efficiency; Coating the function is all ready, is widely applied in fields of pharmaceutical and biological products, can provide all kinds of tablets, pills, such as package various organic film, water soluble film and icing (in terms of drugs which can realize slow and controlled release effect), with high efficiency, coating process automatic control, low energy consumption, small space, etc.

特 点 Features

由PLC和HMI组成的控制系统设计合理，编程灵活，可适应各种不同的制药工艺需要，工作可靠，性能稳定，符合GMP要求。



Composed of PLC and HMI control system design is reasonable, the programming is flexible, can meet the needs of a variety of pharmaceutical technology, reliable operation, stable performance, in line with the GMP requirements.

技术参数 Technical parameters

高效智能无孔包衣机系列		8G-400	8G-150	8G-80	8G-40	8G-10
药载量		400kg	150kg	80kg	40kg	10kg
滚筒转速(转/分)		0-13RPM	2.1-14RPM	2.0-16RPM	2.0-18RPM	3.0-19RPM
主机功率		3kw	2.2kw	1.5kw	1.1kw	0.55kw
包衣滚筒直径		φ 1580mm	φ 1200mm	φ 930mm	φ 780mm	φ 500mm
排风柜电机功率		7.5kw	5.5kw	3kw	2.2kw	0.75kw
排风机流量		10000m³/h	7419m³/h	5268m³/h	3517m³/h	1285m³/h
热风柜电机功率		2.2Kw	1.5Kw	1.1Kw	0.75Kw	0.37Kw
热风机流量		3517m³/h	2356m³/h	1685m³/h	1285m³/h	816m³/h
主机重量		1000kg	850kg	600kg	500kg	200kg
洁净空气	压力	≥0.4Mpa	≥0.4Mpa	≥0.4Mpa	≥0.4Mpa	≥0.4Mpa
	耗气量	1.5m³/min	0.7m³/min	0.35m³/min	0.2m³/min	0.2m³/min

客户选型反馈表

Feedback Form of Customers for Model Selection

请您按表格详细填写，以便本公司提供慎重的选型推荐
Please fill the form in detail so that our company can provide discreet recommended model:

单位 Unit:

客户姓名 Name of customer:

职务 post:

地址 Add:

联系电话 Tel:

传真 Fax:

E-MAIL:

联系时间 Date:

1. 物料名称:

Material name:

2. 干燥物料的形态:

Shape of raw material to be dried:

☐ 微粉

Micro powder

☐ 粉料

Powder

☐ 颗粒

Granule

☐ 块状

Block

☐ 片状

Flake

☐ 纤维状

Fibric form

☐ 滤饼

Filter cake

☐ 糊状

Mushy

☐ 膏状

Paste

☐ 液体

Liquid

3. 干燥物料的初含水

%;

产品终含水

%;

Ph值

,

Primary moisture of raw material to be dried

Final moisture of finished peoduct

PH value

溶点

℃,

物料最高承受温度

℃,

物料松散程度

MP

Max.withstood T of raw material

Bulk density of raw material

4. 湿份主要成份:

Main ingredient of damp powder:

5. 水份存在的形式:

Existed form of moisture:

☐ 表面水

Surface water

☐ 结晶水

Crystal water

6. 成品细度

mm（目）

湿品堆比重

Kg/m³

产品堆比重

Kg/m³

Fineness of finished product

Mesh

Bulk specific gravity of damp product

Bulk specific gravity of finished product

7. 物料有关其他特性:

Relettive other characteristics of raw materials:

粘性

☐

Viscosity

热敏性

☐

Thermal sensitive

软化点

☐

Softening point

相变点

☐

Transition point

腐蚀性（PH值）

☐

Causticity(PHVALUE)

异味

☐

Peculiar smell

可燃性

☐

Inflammability

易爆性

☐

Explosion hazard

静电性

☐

Electric static

透气性

☐

Gas permeability

团聚性

☐

Constipate

晶体或颗粒折医粉碎性

☐

Comminuted of crystal or granule

8. 干燥产量要求:

湿品

Kg/h或干品

Kg/h

Requirement of output:

Damp product or dried finished product;

9. 颗粒产品能否破坏:

能

不能

Whether the granule can ben damaged:

Yes

No

10.物料过去的干燥方法或类似产品的干燥方法:

The original dry method of raw material or dry method of similar products:

11.干燥方式要求:

连续干燥

间隙干燥

Requirements of drying method:

Continuous drying

Drying in batch

12.可供的热源:

☐ 电、

☐ 蒸汽、

☐ 热水、

☐ 导热油、

☐ 燃气炉、

☐ 燃煤炉、

☐ 燃油炉;

Heat source to de wupplied

Electricity

Steam

Hot water

Heat conduction

Gas fuel furnace

Coal fuel fuenace

Oil fuel fernace

13.选购设备要求制作材质:

Required material for manufacturing equipment when selection:

14.环保要求及对物料回收率的要求:

Requirements of environmental protection and requirements of yield:

15.可供安装场地:

Field to be installed:

16.其他要求:

Other requirements: