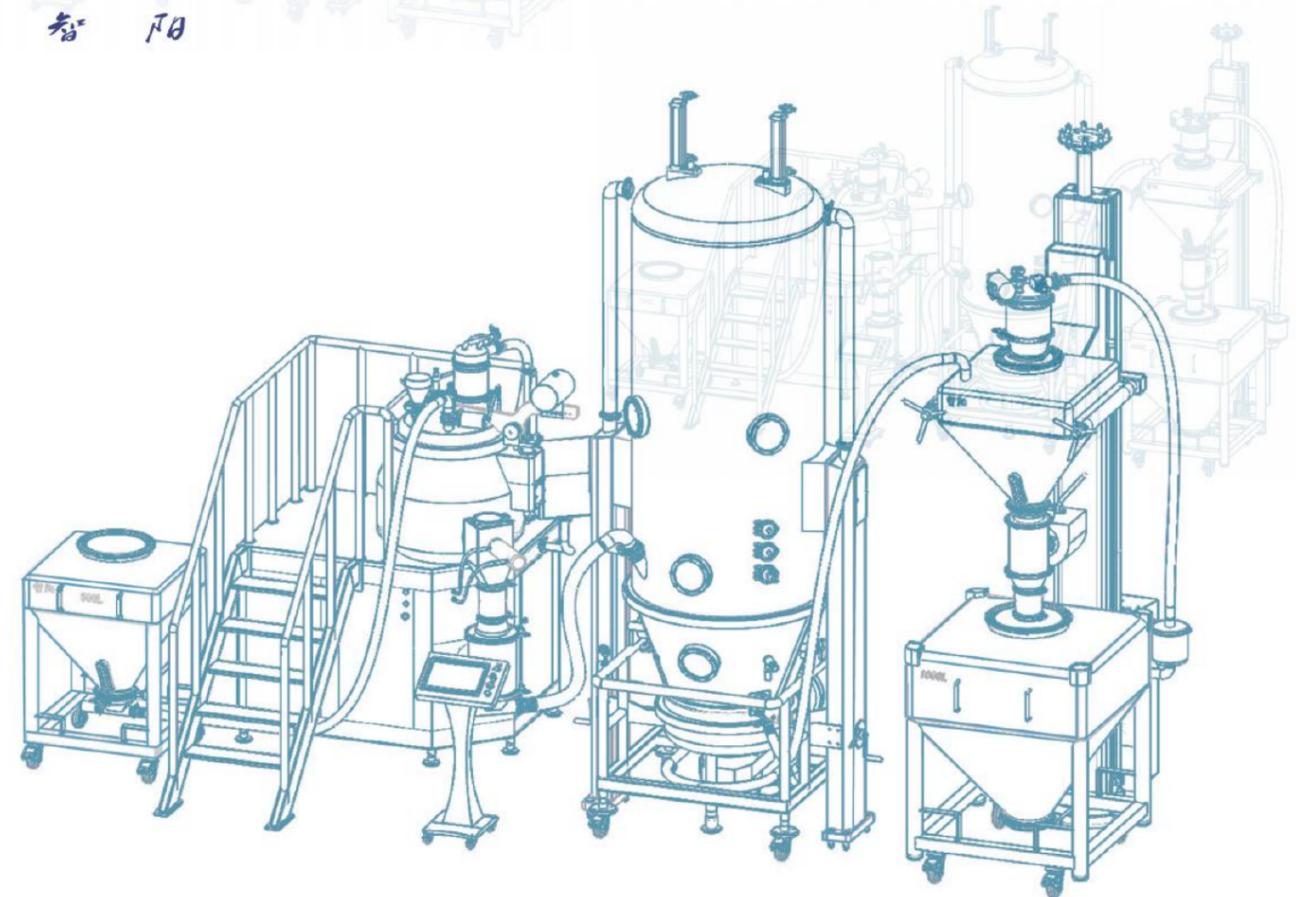




智 阳



常州市智阳机械设备有限公司

Changzhou Zhiyang Machinery Equipment Co.,LTD

- 制粒 Granulating
- 转序 Conveying
- 清洗 Cleaning
- 混合 Mixing
- 配料 Dosing
- 干燥 Drying

客户分布 Customer distribution

- | 5 大洲/continent
- | 30 个国家与地区 Country and region
- | 40 个国际城市 International city



常州市智阳机械设备有限公司

Changzhou Zhiyang Machinery Equipment Co., LTD.

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Jiangsu Province

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抖音



微信视频号



YouTube



公众号

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我们是 We are

常州市智阳机械设备有限公司

Changzhou Zhiyang Machinery Equipment Co.,LTD



我们做什么 What we do

粉末固体制剂设备

Powder Solid Dosage Equipment



位于 located in

江苏省常州市天宁区郑陆镇三河口舜山路65号天宇智荟港

Tianning Zhihuigang, No. 65 Shunshan Road, Sanhekou, Zhenglu Town, Tianning District, Changzhou City, Jiangsu Province



成立于 Establish in

2010年1月 January 2010



公司简介

COMPANY PROFILE FOR ZY MACHINERY



ZY智阳机械专业从事于设计并制造粉末固体制剂设备。ZY智阳将可信的技术与持续创新及性能价值相结合，我们是制药、生物制药、生物技术和保健品、兽药、添加剂产业最好的固体制剂工艺解决方案的制造供应商。

ZY machinery major in design and manufacture Powder Solid Preparation equipment. ZY combines believable technology, innovation and performance value. We are the best solid preparation process technology proposal for Pharmaceutical, bio-pharmaceuticals, biotechnology, health care products, veterinary medicine and additives.



产品工艺 Product process

- 批次和连续制粒 Batch and continuous granulating
- 干燥 Drying
- 制丸和流化包衣 Pelleting and fluid bed coating
- 混合 Mixing
- 压片和片剂包衣 Tablet press and coating
- 物料密闭周转筛分处理 Material conveying
- CIP在线清洗系统 CIP washing system, etc.



产品应用 Application

粉末处理
各种口服固体制剂
如胶囊剂，冲剂，片剂
Powder products
all kinds of oral solid preparation
such as capsule,
instant medicine tablets, etc.

满意服务

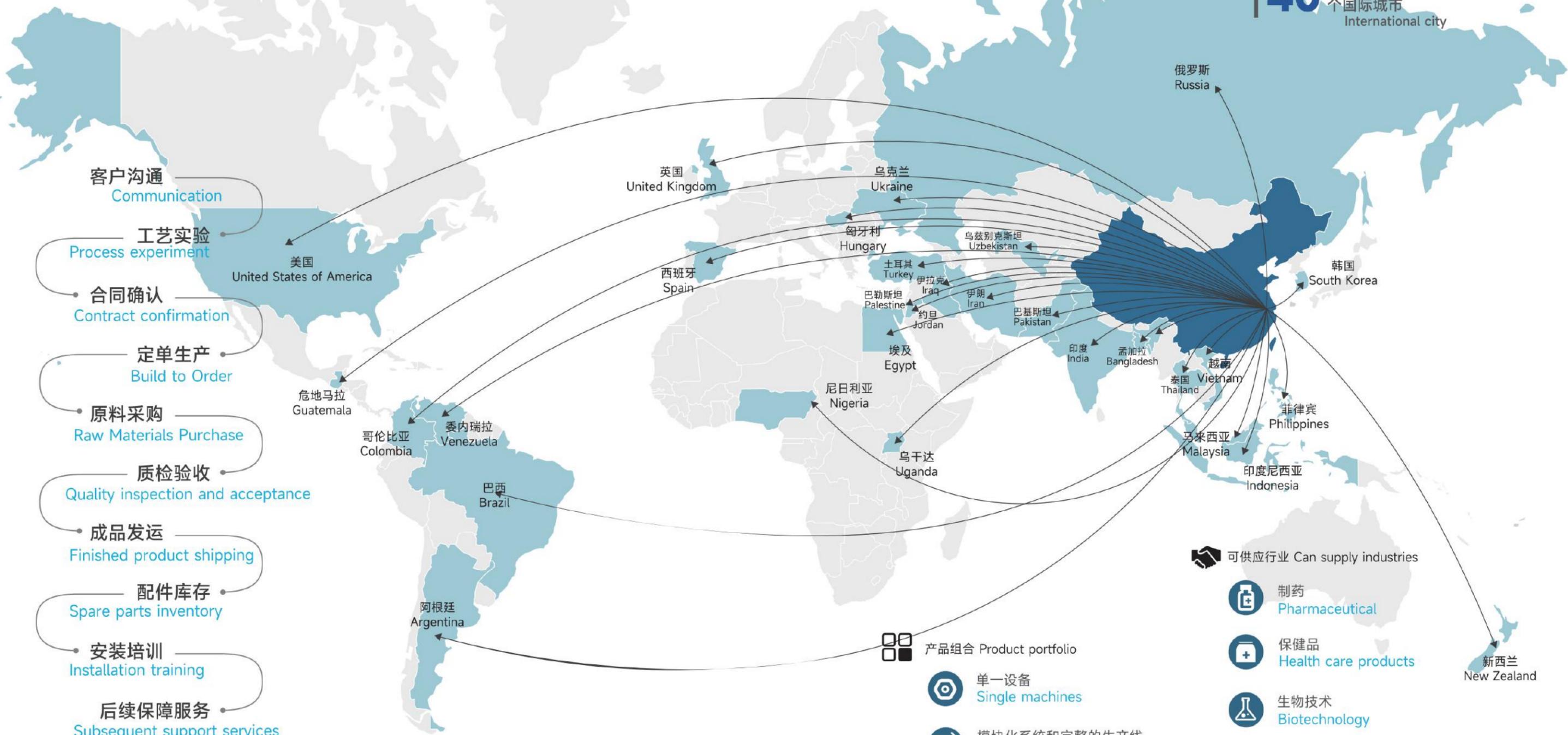
SATISFACTORY SERVICE

客户分布 Customer distribution

5 大洲/continent

30 个国家与地区
Country and region

40 个国际城市
International city



客户沟通
Communication

工艺实验
Process experiment

合同确认
Contract confirmation

定单生产
Build to Order

原料采购
Raw Materials Purchase

质检验收
Quality inspection and acceptance

成品发运
Finished product shipping

配件库存
Spare parts inventory

安装培训
Installation training

后续保障服务
Subsequent support services

可供行业 Can supply industries

制药
Pharmaceutical

保健品
Health care products

生物技术
Biotechnology

添加剂
Additives

产品组合 Product portfolio

单一设备
Single machines

模块化系统和完整的生产线
Modular system and complete production line

合作伙伴

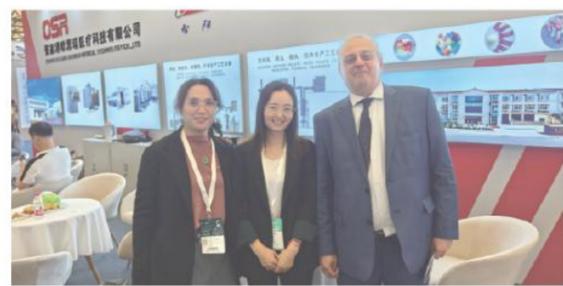
BUSINESS PARTNER

精工细作 完美品质

Delicate work perfect quality

专注于科技的深度，历练专业上的修为，做实之后，方可为强。设备精良，标准化生产，精细完美，严道务实。

Dedicated to the depth of technology, engage in the accumulation of profession, it turn to be stronger after being stability. Our equipments are of standard production and elaborate with ZhiYang people's rigorous and pragmatic attitude.



企业文化 CORPORATE CULTURE



诚信 /Honesty

用户的口碑，即是企业的丰碑。
User reputation,
that is the monument of the enterprise.



实力 /Strength

多家大型公司的共同认可，成百上千的成功案例。
The common recognition of many large
companies, hundreds of successful cases.



品质 /Quality

不仅为您提供放心的产品，更有满意的服务。
Not only provide you with assured products,
more satisfactory service.



专业 /Specialty

重研发，求创新，我们有一流的制造团队。
Focus on R&D, require innovation,
we have a first-class manufacturing team.



技术实力 TECHNOLOGY



以技术为先，打造领先行业的技术优势

Putting technology first and building technological advantages in leading industries.



7项

产品工艺技术
Product process technology

49项

技术发明专利
Technical invention patents

50+

企业各级荣誉
Honors at all levels of
the enterprise

固体制剂产线图
Solid Dosage production line



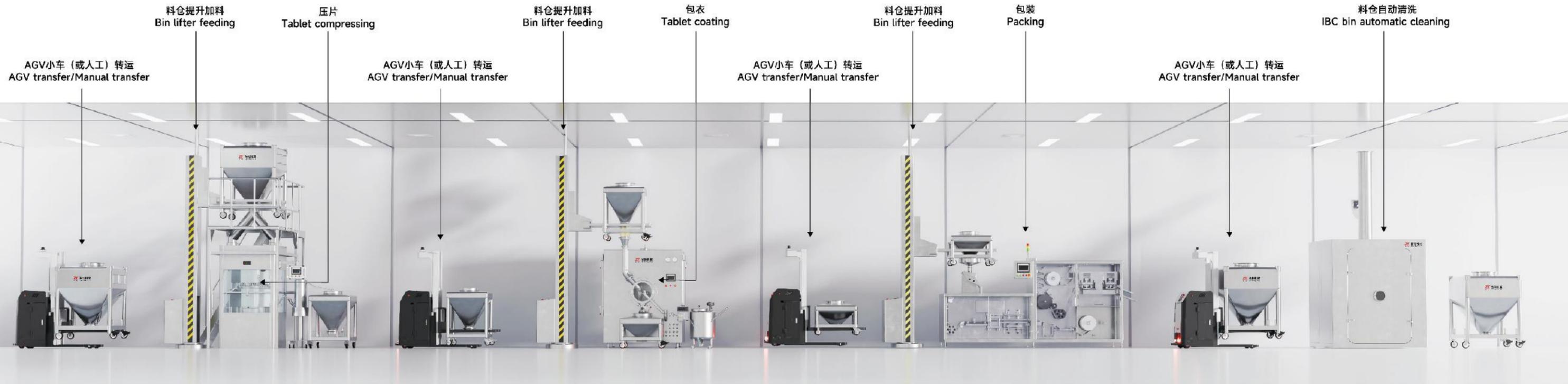
固体制剂产线图
Solid dosage production line



生产工艺流程

Production technology flowchat

ZY 智阳机械
ZHIYANGJIXIE





产品目录 CONTENT

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GHL R&D Lab size
High speed mixer granulator with interchangeable bowls
- 03 DLP R&D 多功能流化床制粒包衣实验机
DLP R&D Lab size
Multi functional fluid-bed granulator coater machine
- 05 BGB R&D 高效薄膜包衣实验机
BGB R&D Lab size
High efficiency film coating machine
- 07 HSD R&D 料仓混合实验机
HSD R&D Lab size Bin blender
- 09 GFL R&D 固体制剂实验机组
GFL R&D Lab size Solid dosage machine
- 11 GFH R&D 高密闭固体制剂生产线
GFH R&D High containment solid dosage production line
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BGBH R&D
High compact high efficiency film coating machine

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GHL high-speed mixer granulator
- 17 DLP 多功能流化床制粒包衣机
DLP multi functional fluid-bed granulator coater
- 19 BGB 高效薄膜包衣实验机
BGB high efficiency film coating machine
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Fluid-bed granulator dryer (One-step granulator)
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LDP-B fluid-bed coater
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- 27 FG 流化床干燥机
FG fluid-bed dryer
- 29 GK 干法制粒机
GK roller compactor

- 30 JW 挤出一滚圆微丸机组
JW extruding-spheronization pellets
- 31 JWB 挤出一离心造粒包衣机组
JWB multifunctional pelletizing coater
- 32 BZJ 离心造粒包衣机
BZJ centrifugal granulating coating machine
- 33 ZYLX 旋转挤出一滚圆机组
ZYLX rotary extrusion-spheronization pellets
- 34 QWL 球形抛丸机
QWL centrifugal spheroidizing pellets
- 35 NTZS 固定提升真空上料整粒机
NTZS fixed lifting vacuum feeding milling equipment
- 37 NTFZ 料仓提升转料整粒机
NTFZ pharma lifter for FBG/FBD Bowl
- 39 XL 旋转式颗粒机
XL revolving granulator
- 39 XYZL 旋转挤压制粒机
XYZL rotating extrusion granulating machine
- 40 YK 摇摆制粒机
YK oscillating granulator
- 41 SET 螺杆挤压造粒机
SET screw extruding granulator
- 42 GZL 快速粉碎整粒机
GZL fast grinding granulating machine

3 混合模块 MIXING MODULE

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HTD post bin blender
- 45 HZD 自动提升料斗混合机
HZD automatic bin blender
- 47 HDD 单臂料仓自动提升混合机
HDD single-arm hopper mixer
- 49 HGD 固定料斗混合机 (方锥混合机)
HGD fixed hopper mixer (squarecone mixer)
- 51 LDT 周转混合料斗
LDT transfer bin

- 52 AH 气流混合机
AH airflow mixer
- 53 HD 多向运动混合机
HD multi-direction movement mixer
- 54 ZKH V型混合机
ZKH V mixer
- 55 EYH 二维运动混合机
EYH two dimensional movement mixer
- 56 WH 双螺旋锥形混合机
WH double-screw conical mixer
- 57 LH 快速混合机
LH high speed mixer
- 58 CH 槽形混合机
CH groove mixer

4 转序模块 PRODUCT HANDLING MODULE

- 59 NTF 固定提升转料机
NTF pharma lifter
- 61 NTD 料斗提升加料机
NTD pharma lifter, for bin
- 63 NTY 移动提升加料机
NTY pharma lifter, moveable
- 65 NTS 移动伸缩提升加料机
NTS pharma lifter, telescopic and movable
- 67 NTG 固定提升加料机
NTG pharma lifter, stationary
- 69 NTC 层间提升机
NTC Layer lifter

5 配料模块 DOSING MODULE

- 71 LCP 称量配料站
LCP weighing batching station
- 72 TLZ 无尘投料站
TLZ dust free feeding station

- 73 WF 无尘粉碎机
WF dust free crusher
- 74 30B 吸尘粉碎机
30B dust catcher crushing set
- 74 ZS 离心振动筛
ZS centrifugal vibration sieve
- 75 ZKS 真空料机
ZKS vacuum feeding machine

6 清洗模块 WASHING MODULE

- 77 QW QY 在位移动清洗站
QW QY CIP clean station
- 79 QD 自动料仓清洗机
QD Automatic hopper cleaning equipment
- 81 NTQW 半自动料仓清洗机
NTQW semi-automatic hopper cleaning equipment

7 其它干燥设备模块 OTHER DRYING MODULE

- 83 GFG 高效沸腾干燥机
GFG high-efficiency fluidizing dryer
- 85 XF 卧式沸腾干燥机
XF horizontal fluidizing dryer
- 87 LPG 高速离心喷雾干燥机
LPG high-speed centrifugal spray dryer
- 89 XSG 旋转闪蒸干燥机
XSG rotation flash dryer
- 90 CT、CT-C 热风循环烘箱
CT、CT-C hot air circulation oven
- 91 FZG、YZG 真空干燥机
FZG、YZG vacuum dryer
- 92 SZG 双锥回转真空干燥机
SZG double cone rotary vacuum dryer
- 93 DW 单层带式干燥机
DW single-layer mesh-belt dryer

GHL R&D 可换锅湿法混合制粒实验机

GHL R&D lab size High speed mixer granulator with interchangeable bowls

R&D

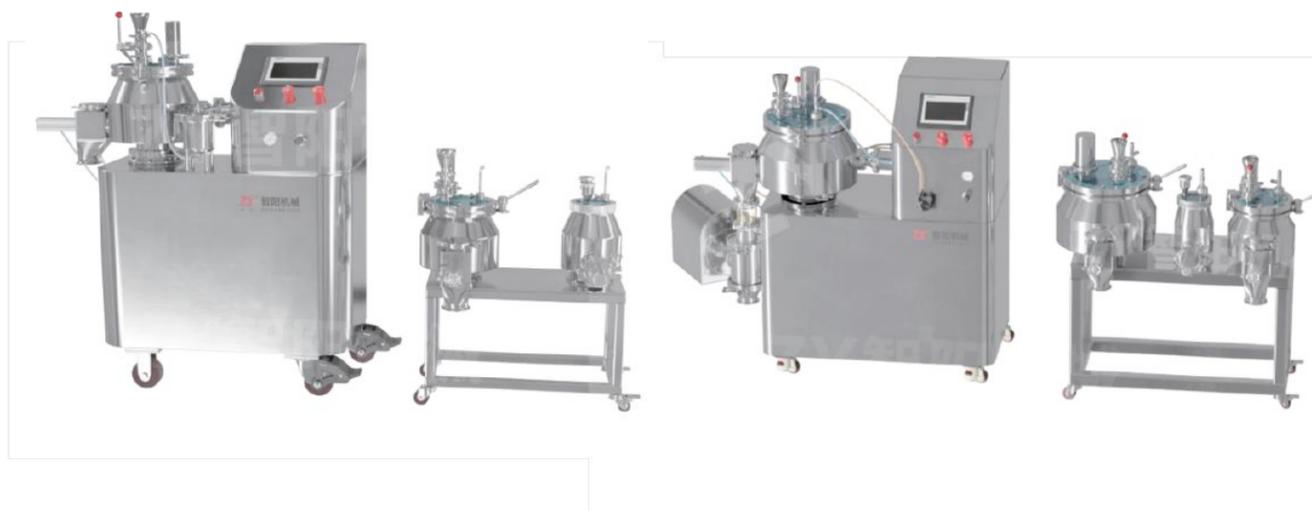
- 制粒 GRANULATING
- 混合 MIXING

- 转序 CONVEYING
- 配料 DOSING

- 清洗 CLEANING
- 干燥 DRYING



R&D 实验



概述 Summary

GHL R&D 可换锅湿法混合制粒试验机用于片剂、胶囊、颗粒剂等品种生产过程中湿颗粒的制备。广泛应用于制药、食品、化工等行业的实验研发。

The GHL R&D lab size High speed mixer granulator with interchangeable bowls is used to produce the wet granules for tablet, capsule, and granule products. It is widely utilized in the research and development of pharmaceuticals, foodstuffs and chemical industries.

原理 Principle

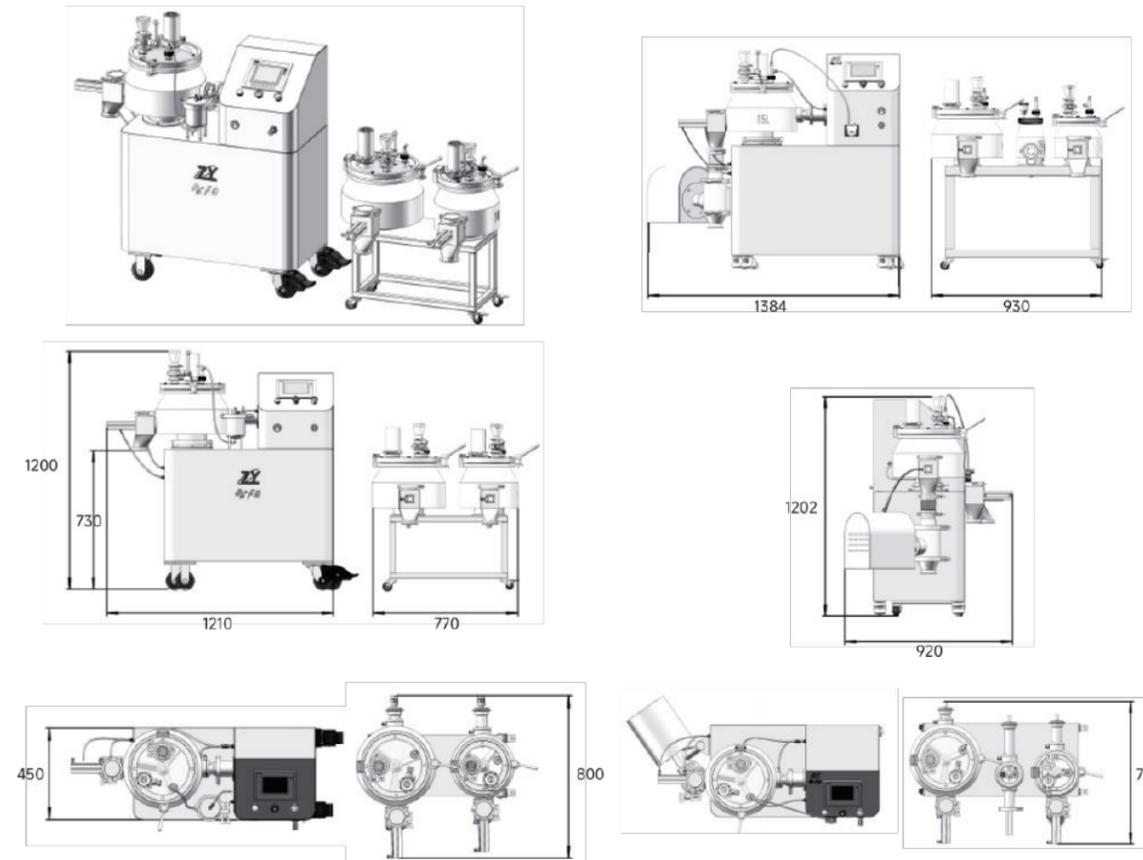
物料加入到制粒仓内后，通过特殊结构设计的搅拌桨使物料进行多维切变状态流动，再由喷枪系统加入粘合剂，使物料在仓内形成索带状软材，经过搅拌桨和切碎刀的搅拌和切碎制备成均匀的湿颗粒。

After material loading into the bowl, the special designed stirring oar makes the material multi directional flow inside. Spray the binder into the bowl, make the material wet mixing inside, after stirring and chopping oars mixing to be uniformly granules.

特点 Feature

- ▶ 一台主机可配套多个不同容积的制粒锅使用，满足不同物料及物料量的实验要求。
- ▶ 能一次完成完成混合、制粒工序，制粒效果好，无交叉污染，符合制药行业GMP要求，适用于实验室及小药厂的新产品试制和中、小批量生产。
- ▶ 该型设备有安全连锁装置，使用时安全、可靠；设备采用了卧式机型的结构，整体刚性好，结构简单，便于维护；主要部件安装在机身内部，外罩304不锈钢机壳，且与药物直接接触的部件均由304或316L不锈钢制成；制粒过程密闭，配弯头搅拌桨，2-5把切碎刀组。
- ▶ 设备由双变频器进行搅拌桨和切碎刀的调速，自动计时控制机器的运行；电器控制上有普通电器控制和触摸屏、PLC式电器控制两种方式供用户选择。

- ▶ One machine can equip with different size bowls to fulfill different materials and capacity requirement.
- ▶ Can finish mixing and granulating in one process. With good granulating efficiency, no cross contamination, comply with GMP requirement. Suitable for laboratory and small pharmaceuticals new products research, lab scale and middle scale production use.
- ▶ The machine with safety interlock system, safety and reliable in operation. The machine adopts horizontal construction design, simple construction, easy to maintain. Main parts install inside the machine body, out seal with SUS304 shell, and the contact parts with material all use SUS316L and SUS304. It's a whole compact process, with elbow stirring oar, 2-5pcs chopper.
- ▶ The stirring and chopping control by inverters, auto timing control the machine running. With button contrail and HMI control for customer choose.



技术参数 technical parameter

项目 Item	型号 Model	GHL-1-3-5	GHL-3-5-10	GHL-5-10-15	GHL-10-20-30	
原料容器容量 Container volume	L	1/3/5	3/5/10	5/10/15	10/20/30	
生产能力 Capacity	Kg/batch	0.2~2	1~3	1.5~5	3~15	
混合功率 Mixing Power	Kw	1.1	1.5	2.2	4	
混合速度 Mixing Speed	Rpm	0~960				
切割功率 Cutting Power	Kw	0.55	0.75	0.75	1.1	
切割速度 Cutting Speed	Rpm	0~2880				
压缩空气 Compressed air	耗量 Consumption	M ³ /h	0.2	0.3	0.6	0.9
	压力 Pressure	Rpm	0.4~0.6			
设备重量 Weight of the machine	Kg	600	635	890	1150	

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DLP R&D 多功能流化床制粒包衣实验机

DLP R&D Lab size Multi functional fluid-bed granulator coater machine



概述 Summary

该机是集顶喷、底喷、侧喷等功能于一体的多功能制粒机。它具有混合、干燥、制粒、包衣、制微丸等多种功能。广泛应用于制药、食品、化工等行业。

This machine is a type of multi functional granulating machine integrated top spray, bottom spray, centrifugal spray in one body. It has mixing, drying, granulating, coating and pelletizing function. Widely use in pharmaceuticals, foodstuff, chemical industries, etc.

原理 Principle

该机配有进风加热系统、流化床系统、顶喷系统、底喷系统、侧喷系统、出风除尘系统等组成。顶喷为制粒功能;底喷为微丸颗粒粉体包衣功能;侧喷为制微丸功能。以上功能都在同一台多功能流化床设备上实现。用户按实际生产工艺选配功能要求。

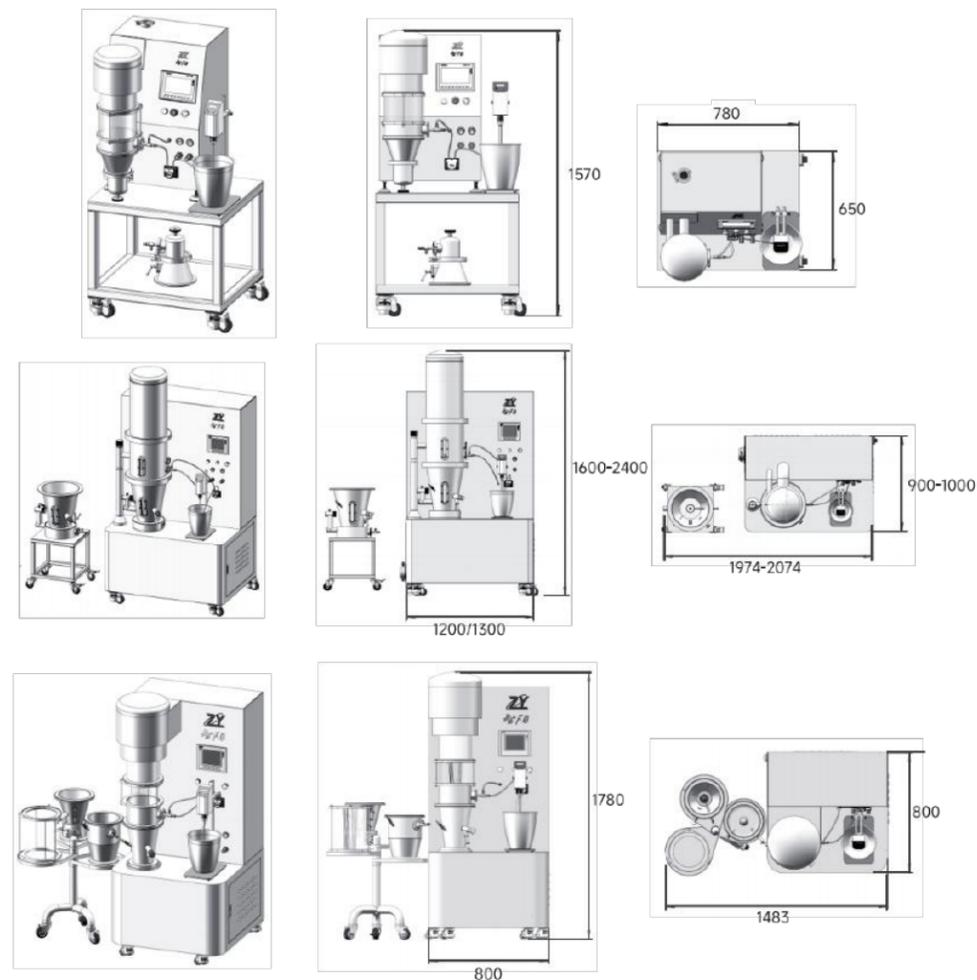
The machine equipped with inlet air heating system, fluidizing system, top spray system, bottom spray system, centrifugal spray system, exhaust dust collection system, etc. Top spray for granulating, bottom spray for pellets, granules and powder coating, centrifugal spray for pelletizing. All above function can make in one multi functional fluid-bed. Choose the function accordingly to customer's requirements.

R&D

- 制粒 GRANULATING
- 混合 MIXING
- 转序 CONVEYING
- 配料 DOSING
- 清洗 CLEANING
- 干燥 DRYING



R&D
实验



特点 Feature

该机应用于研发、实验的实验室设备之一。该机配有顶、底、侧喷的完整功能系统,可方便实现干燥、制粒、包衣、制微丸功能。该机采用PLC全自动控制,全部操作根据用户要求设定工艺参数自动完成,能打印所有工艺参数,原始记录真实可靠。完全符合药品生产的GMP要求。

This machine is one of the laboratory equipment used in research and development. The machine is equipped with a complete functional system of top, bottom and centrifugal spray system, which can conveniently realize the functions of drying, granulating, coating and pelletizing. It adopts PLC automatic control, all operation according to user requirements set process parameters automatically completed, can print all process parameters, the original record is reliable. In full compliance with GMP requirements.

技术参数: technical parameter

项目 Item	型号 Model	DLP-MIMI	DLP-I	DLP-II	DLP-III	DLP-IV
生产能力 Capacity	g/batch	100~500	500~1000	1000~1500	1500~3000	2500~5000
风机功率 Power of fan	Kw	0.7	1.5	2.2	3	4
电加热功率 Power of electrical heater	Kw	1.5	4.5	4.5	4.5	6
压缩空气 Compressed air	耗量 Consumption	M ³ /h	0.3			
	压力 Pressure	Mpa	0.4~0.6			
设备重量 Weight of the machine	Kg	220	400	560	600	720

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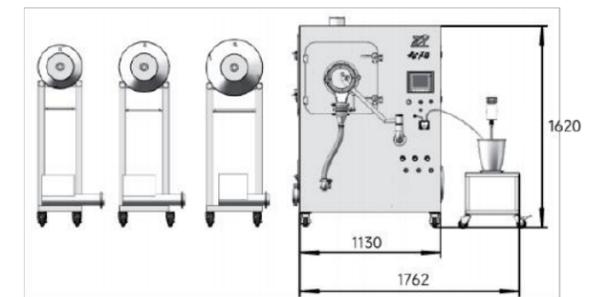
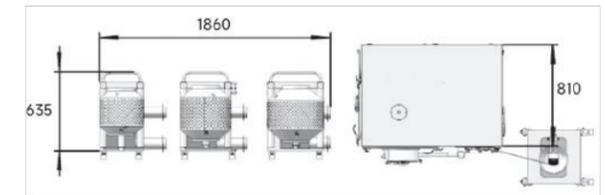
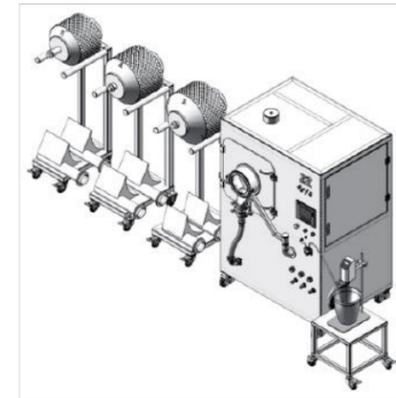
BGB R&D 高效薄膜包衣实验机

BGB R&D Lab size High efficiency film coating machine



R&D

- 制粒 GRANULATING
- 转序 CONVEYING
- 清洗 CLEANING
- 混合 MIXING
- 配料 DOSING
- 干燥 DRYING



R&D 实验

特点 Feature

- ▶ 一台主机可配套多个不同容积的包衣锅使用，满足不同物料及物料量的实验要求。
- ▶ 包衣喷枪的位置及喷射角度可调，满足不同包衣量要求。
- ▶ 包衣过程中微负压，全密闭操作，药物包衣过程中完全隔离，避免药物污染。
- ▶ 薄膜包衣能连续进行并同时喷洒包衣介质、干燥、排风，在同一密闭容器内就可完成全部包衣工序，大大提高工效。
- ▶ 出料和进料可自动完成，清洗方便。
- ▶ 采用特制喷枪，提高包衣质量。

- ▶ One machine can equip with different size coating pans to fulfill different material and capacity requirements.
- ▶ Spray gun position and angle adjustable to fulfill different capacity requirement.
- ▶ Micro negative pressure during coating process, compact operation, the medicine coating process fully isolated to avoid contamination.
- ▶ Film coating process can continuous working, and meantime spray coating medium, drying, exhausting in the same compact pan to finish the whole coating process. Highly increase the efficiency.
- ▶ Loading and discharging automatically finished, easy to clean.
- ▶ Adopts special design spray gun to improve the coating quality.

概述 Summary

BGB R&D 高效包衣实验机可满足实验室包衣需求。主要用于制药、食品、生物制品等领域，可为各种片剂、丸剂、糖果等包制各种有机薄膜，水溶性薄膜和普通糖衣，可以实现药物的缓释作用。

BGB R&D lab size high efficiency film coating machine can fulfill lab size coating requirement. Mainly used in pharmaceuticals, foodstuff, biologic products industries, etc. Can use for different tablets, pellets, candy film coating, water soluble film coating and normal sugar coating. Also can realize the slow release function.

原理 Principle

片芯在洁净密闭的旋转包衣锅内，不停地作复杂轨迹运动，薄膜介质经喷枪以雾状均匀喷到片芯表面，由热风柜提供的经过过滤的清洁热空气穿透片床，使喷在片芯表面形成的包衣介质迅速干燥后形成薄膜包衣层。

The core tablets continuously rotating inside the compact coating pan, the film medium uniformly spray on the tablets surface through spray gun. The clean air after filtration from the heating cabinet get into the pan and drying the coating medium on the surface of tablets to make a film layer on the tablets.

技术参数 technical parameter

项目 Item		型号 Model	BGB-MINI	BGB-1-3-5	BGB-5-10-15	BGB-10-20-30
装载量 Maximum load	L		0.5/1/2	1/3/5	5/10/15	10/20/30
生产能力 Capacity	Kg/batch		0.2~1.5	0.5~5	3~15	5~30
包衣锅转速 Drum speed	Rpm		3~20			
总功率 Total Power	Kw		1.35	1.4	2.4	3.35
电加热功率 Power of electrical heater	Kw		2	4.5	4.5	9
热风温度 Hot air range	°C		常温 Normal Temperature ~80			
压缩空气 Compressed air	耗量 Consumption	M ³ /h	0.6			
	压力 Pressure	Mpa	0.4~0.6			
设备重量 Weight of the machine	Kg		480	815	960	1230

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HSD R&D 料仓混合实验机

HSD R&D lab size Bin blender



概述 Summary

HSD R&D 料仓混合实验机通过安装在机体上的料仓的转动，实现对料仓内部装载物料的混合，通过更换料仓可满足多品种物料的实验要求，广泛应用于制药、食品、化工等行业的混合实验研究。

HSD R&D lab size bin blender, through the rotating of the bin to finish the inside material mixing process. Interchangeable bins can fulfill different capacity requirements. Widely used in pharmaceuticals, Foodstuff, Chemical industries.

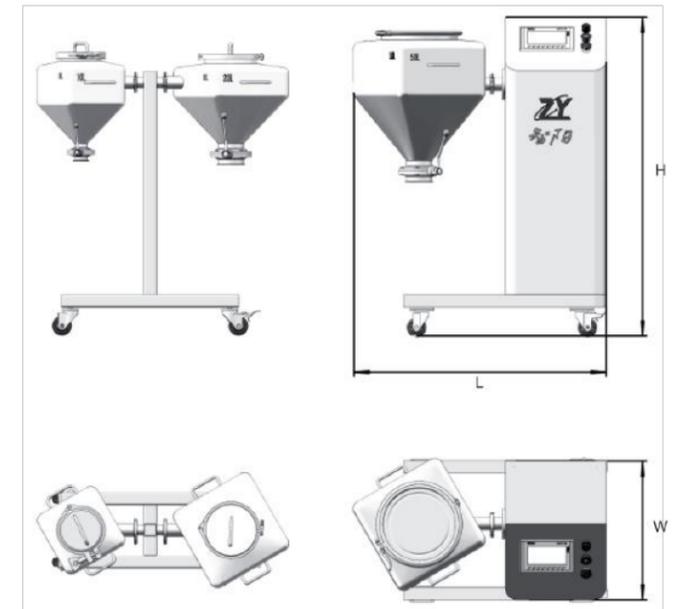
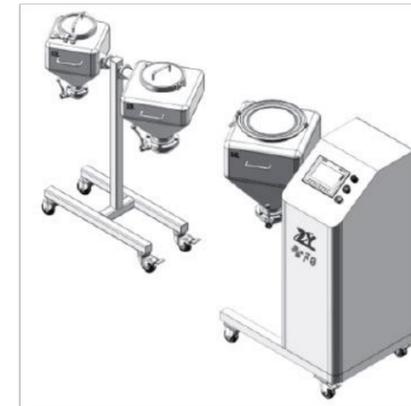
原理 Principle

HSD料仓混合实验机由料桶、控制系统、驱动系统、底座、安全护栏(可选配)组成。该机工作时，将安全护栏打开，打开密封盖，将多种物料投入，之后将密封盖锁紧。按照工艺要求设定混合时间和转速，启动设备。物料在混合过程中沿仓壁做切线运动，进而做翻转和高速的切向运动。达到预设时间后，料仓自动停止于垂直状态，方便出料。出料时，也可将料仓拆卸下来出料，同时安装另一料仓进行下一种物料的混合，节省实验时间。

HSD R&D lab size bin blender compose by bin, control system, driver system, bottom base, safety bar(option). Open the safety bar and the cover of the bin, then loading different materials inside the bin, and the lock the sealing cover. Set the mixing time and speed according to required data, then turn on the machine. During the mixing process, the material moves tangentially along the wall of the bin, and then it turns over and moves tangentially in high speed. After reaching the preset mixing time, machine stop automatically in vertical state, easy for discharging. When discharging, the bin can also be disassembled to discharge the material, and another bin can be installed to mix the next batch, saving time.

■R&D

- 制粒 GRANULATING
- 转序 CONVEYING
- 清洗 CLEANING
- 混合 MIXING
- 配料 DOSING
- 干燥 DRYING



特点 Feature

- ▶ 一台主机可配套多个料仓使用，满足多品种的实验要求密封性好，可有效控制粉尘污染，便携、占地小、能耗低
- ▶ 操作简单、清洗方便、安装简单、换桶方便
- ▶ 可对液体、固体、粉体等物料进行混合，混合均匀度高
- ▶ 设置误操作出料蝶阀控制系统，防止意外落料

- ▶ One machine can equip with different size bins, fulfill multi materials mixing, good sealing condition, can control the dust contamination, less area required, lower consumption.
- ▶ Easy operation, cleaning and install, easy to change different size bins.
- ▶ Can use for mixing liquid, solid, powder material, high mixing uniformity.
- ▶ With mis-operating butterfly valve control system to avoid accident discharging.

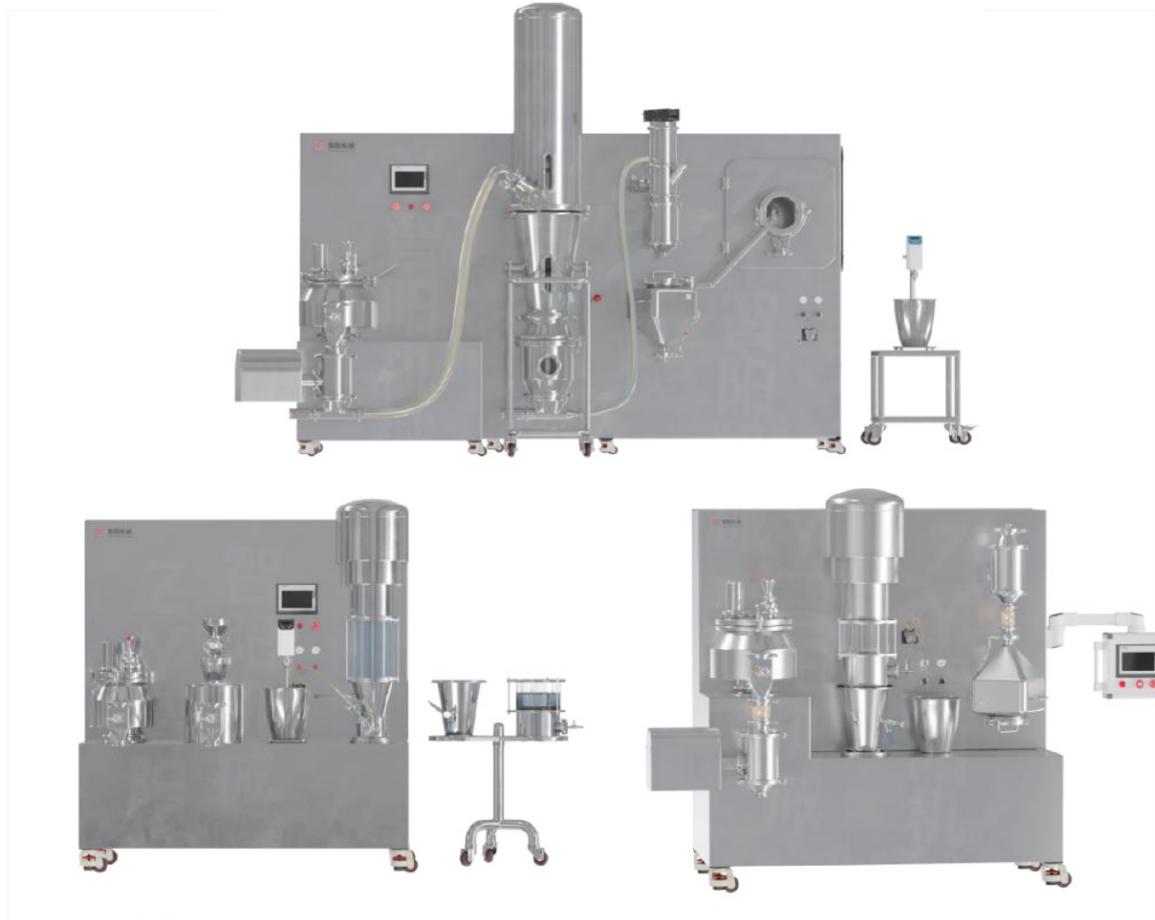
技术参数 technical parameter

项目 Item	型号Model	HSD R&D-I	HSD R&D-II
装载量 Maximum load	L	1-50 任意选配	10-100 任意选配
生产能力 Capacity	Kg/batch	0.2-15	3-30
混合功率 Mixing Powe	Kw	0.55	0.75
混合速度 Mixing Speed	Rpm	3-18	
外形尺寸 Outline dimension	mm	1000x550x1300	1300x600x1500
设备重量 Weight of the machine	Kg	320	460

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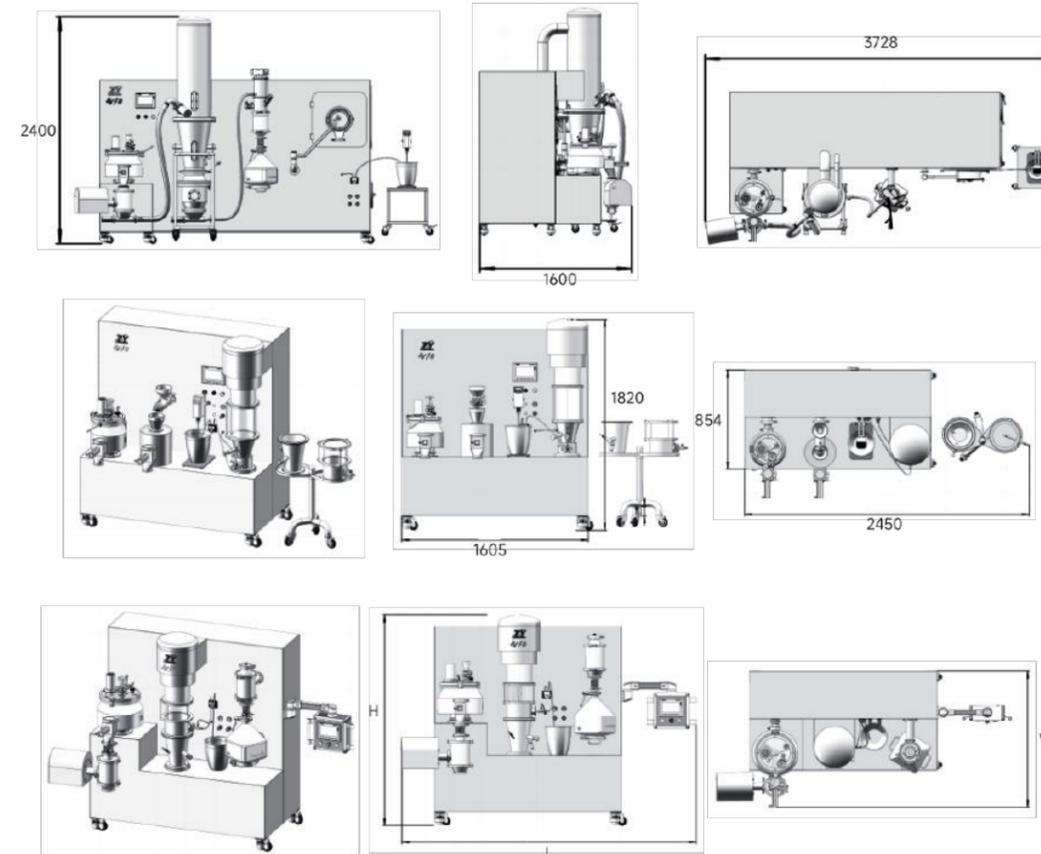
GFL R&D 固体制剂实验机组

GFL R&D Lab size Solid dosage machine



R&D

- 制粒 GRANULATING
- 转序 CONVEYING
- 清洗 CLEANING
- 混合 MIXING
- 配料 DOSING
- 干燥 DRYING



R&D 实验

概述 Summary

GFL R&D 固体制剂实验机组采用模块化设计，可将固体制剂工艺流程有效衔接配合，实现智能化、连续化生产。GFL-I优秀的兼容性和配套性，使生产工艺更加科学与合理，产量更加稳定，在行业中广泛使用。

GFL R&D Lab size Solid dosage machine adopts modular design, the solid preparation process can be effectively connected and coordinated to achieve intelligent and continuous production. GFL-I widely used in industries because of the excellent compatibility, makes the working process more scientific and reasonable, the output is more stable.

原理 Principle

GFL R&D 固体制剂实验机组是由湿法制粒机、湿整粒机、螺杆挤出制粒机、离心造粒抛丸机、流化床制粒包衣机、湿整粒、干整粒，总混合，片剂包衣机，辅机系统、进出料系统和衔接元件组成。制粒过程中，湿法制粒机通过进料系统上料，制得的湿颗粒通过出料整粒，制粒丸系统进入流化床制粒机中干燥，干燥后颗粒通人工或是出料系统进入干整粒中，整粒后物料直接进

入总混合料仓中进行混合，混合后物料料仓待进入下道工序。后序压片好的物料进入片剂包衣机进行包衣。这一过程中，通过完全兼容并配套的衔接元件辅助设备制粒，包衣，干燥转序。

GFL R&D Lab size Solid dosage machine is composed by high shear mixer, wet milling, screw extruding, centrifugal pelletizing, fluid-bed granulating & coating, wet milling, dry milling, final mixing, tablet coating machines, assistant system, loading & discharging system and connection components. During the granulating process, raw material loading into the high shear mixer by loading system, after get the wet granules, goes into the discharging wet milling, then goes into the granulating/pelletizing machine. Then goes into the fluid-bed dryer for drying process. After drying goes into the dry milling process by manual or auto transfer. The material after dry milling goes into the bin blender for the final blending, and then goes into next step. After tablet compress, then go for tablet coating. The whole process with granulating, coating and drying are carried out by fully compatible and supporting auxiliary equipment.

特点 Feature

- ▶ GFL R&D 拥有湿法制粒机和离心造粒包衣机，流化床制粒包衣干燥机的所有特点完全兼容PAT过程分析仪和高度智能控制系统。
- ▶ 各制粒系统可根据要求更行匹配，多种搭配，达到不同的制粒要求。
- ▶ 高度集成的模块化、可全密闭制粒生产技术，柔性加工。
- ▶ GFL R&D with all features of high shear mixer granulator and centrifugal granulating coating machine, fluid-bed granulating, coating, drying machine. Fully compatible with PAT process analyzers and highly intelligent control systems.
- ▶ Each granulating system can equip with different requirements to fulfill different requirements of granulating process.
- ▶ Highly integrated modular, fully hermetically sealed granulation technology, flexible processing.

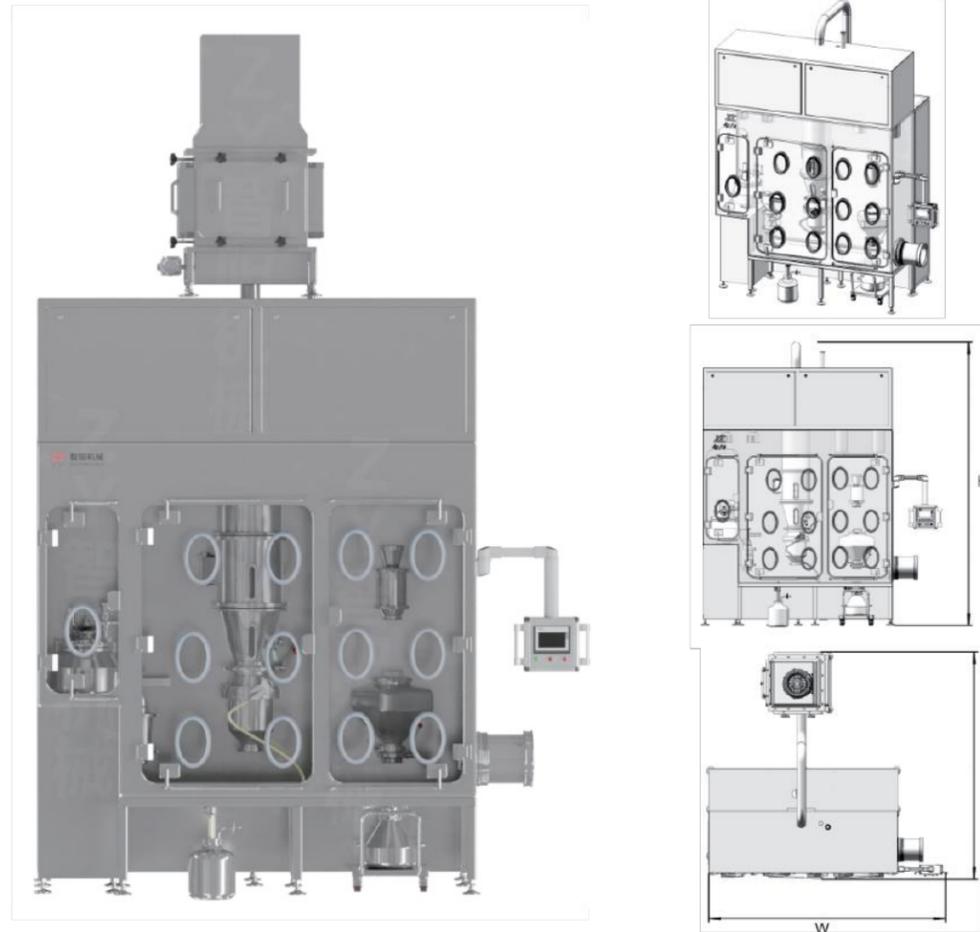
技术参数 technical parameter

项目 Item	型号 Model	GFL-I	GFL-II	GFL-III	GFL-V	GFL-10
生产能力 Capacity	Kg/batch	1-1.5	1-1.5	2-3	3-5	5-10
总功率 Power	Kw	5.2	7.15	5.9	9.65	12.5
电加热功率 Power of electrical heater	Kw	4.5	4.5	4.5	9	12
压缩空气 Compressed air	耗量 Consumption	M ³ /h	0.2	0.3	0.6	0.9
	压力 Pressure	Mpa	0.4-0.6			
设备重量 Weight of the machine	Kg	600	635	890	1150	1350

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GFH R&D 高密闭固体制剂生产线

GFH R&D High containment solid dosage production line



概述 Summary

GFH R&D 高密闭固体制剂生产线，是一款适用于抗癌类、高致敏性等对正常人体有一定伤害的如片剂、胶囊、颗粒剂等品种生产的设备。

GFH R&D High containment solid dosage production line is a kind of machine suitable for the production of tablets, capsules, granules and other varieties which have certain harm to normal human body such as oncology and high sensitization products.

原理 Principle

通过RTP阀将物料传入隔离器；将物料投入湿法制粒料缸进行制粒，湿颗粒完成湿整真空输送到流化床，物料烘干之后翻板出料或是真空出料并完成干整粒；整粒后物料对接进入混合料仓混合机；混合完成料仓出料阀与AB阀对接并完成出料；制成颗粒通过AB阀离开隔离器。

The material goes into the isolator from RTP valve; loading the material into high shear mixer for granulating, the wet material goes into the FBD after wet milling, after drying, the material goes into dry milling through turnover plate discharging or vacuum feeding machine. The material after dry milling goes into the bin blender for final blending. After blending, the material discharging through the discharging valve and AB valve. The final product move out from the isolator through AB valve. After blending, the material discharging through the discharging valve and AB valve. The final product move out from the isolator through AB valve.

-R&D

- 制粒 GRANULATING
- 转序 CONVEYING
- 清洗 CLEANING
- 混合 MIXING
- 配料 DOSING
- 干燥 DRYING



R&D 实验

特点 Feature

- ▶ 可满足药物固体制剂中最高标准的防护需求；
- ▶ 符合为操作者提供OEB4/OEB5保护等级；
- ▶ 可根据客户工艺需要，提供定制化的专业设计，分别配置不同的手套操作端口、半身服或机器人来实现密闭条件下的各类操作；
- ▶ 空气处理系统使用可安全更换的双层PUSH/PUSH高效空气过滤器(HEPA)或袋进袋出高效；
- ▶ 物料进出方式可配置传递舱、套管系统和快速传递端口(RTP)等方式来实现；
- ▶ 各舱门之间具备互锁功能；
- ▶ 门密封方式可选用充气密封和机械压紧密封；
- ▶ 隔离器具备紧急模式处理系统：当隔离器出现密封圈、手套破裂时，舱内压力会快速上升，隔离器自动启动警报同时调节风机频率，加大排风量，关闭进风阀，保证裂隙风速在0.5 m/s以上以确保高活性物质不会外泄，保护操作者与实验室环境安全；
- ▶ 可选配手套完整性测试仪，手套可在线安全更换；
- ▶ 选配：袋夹工具套装(PE袋、封口夹及封装工具)；
- ▶ 由逻辑控制器控制设备运行，人机界面操作简便，可执行所有的操作；

- ▶ It can meet the highest standard of protection requirements in pharmaceutical solid dosage line.
- ▶ Complies with the OEB4/OEB5 protection rating for the operator.
- ▶ Provide customized professional design according to customer process requirements, and configure different glove operation, ports, half-suits or robots to achieve various operations in a closed conditions.
- ▶ Air handling unit use safety double layer PUSH/PUSH HEPA filter or BIBO HEPA filter.
- ▶ Material loading and unloading equipped with transfer cabinet, piping system or RTP.
- ▶ Interlock system for each cabinet.
- ▶ Door sealing equipped with air sealing and mechanical sealing.
- ▶ The isolator is equipped with an emergency mode processing system: when the sealing ring and gloves of the isolator break, the cabin pressure will rise rapidly, the isolator will automatically start the alarm, adjust the fan frequency, increase the exhaust air volume, close the air inlet valve, and ensure that the crack wind speed is above 0.5m /s to ensure that the highly active substances will not leak out, and protect the safety of the operator and the laboratory environment.
- ▶ Can equip with gloves detector, and online change the gloves.
- ▶ Option: Bag clip tool set (PE bag, sealing clip and packaging tool)
- ▶ The logic controller controls the equipment operation, and the HMI is easy to operate and can perform all operations.

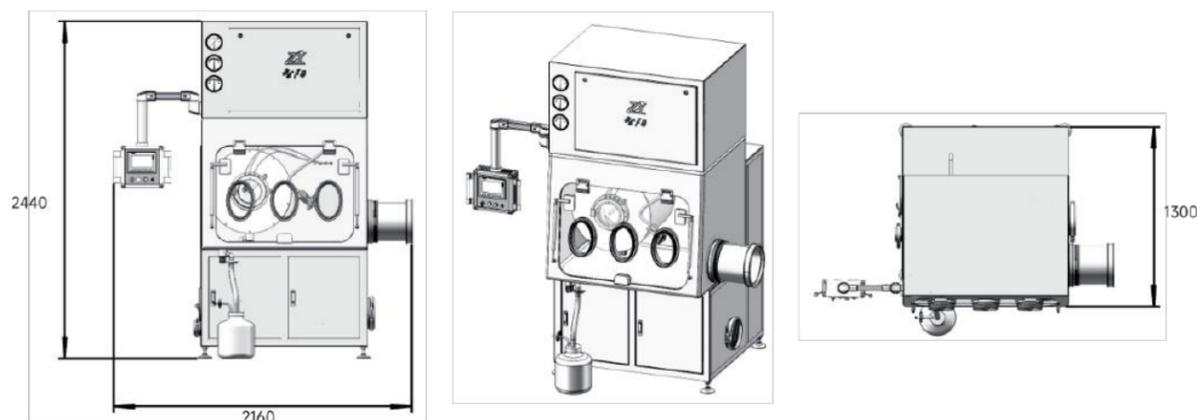
技术参数 technical parameter

项目 Item	型号 Model	GFH-1	GFH-3	GFLH-5	GFLH-10	GFLH-20
生产能力 Capacity	Kg/batch	1	3	5	10	20
总功率 Power	Kw	6.2	8.15	6.9	10.65	
电加热功率 Power of electrical heater	Kw	4.5	4.5	4.5	9	
防护等级 Protection level	--	OEB4/OEB5				
气流方式 Airflow mode	--	紊流 Turbulence				
换气次数 Ventilation frequency	H	15次以上 More than 15 times				
操作舱压力 Operating cabin pressure	Pa	-50pa~-150				
压缩空气 Compressed air	耗量 Consumption	M ³ /h	0.2	0.3	0.6	0.9
	压力 Pressure	Mpa	0.4-0.6			
外形尺寸 External dimensions	长宽高 L*W*H	根据设计 According to the design				
设备重量 Weight of the machine	Kg	根据设计 According to the design				

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BGBH R&D 高密闭高效包衣机

BGBH R&D High containment high efficiency film coating machine



概述 Summary

BGBH R&D 高密闭高效包衣机主要用于制药工业中的高活性片剂包衣, 适用产品包括激素类、抗癌药物等产品的包衣, 是一种安全、高效、洁净、符合GMP要求的毒性物质包衣设备。

BGBH R&D High containment high efficiency film coating machine mainly use in high active tablet coating for pharmaceuticals, suitable for Hormones, oncology and other products coating, It is a safe, efficient, clean and GMP compliant toxic substance coating equipment.

原理 Principle

通过RTP阀将物料传入隔离器; 将物料投入包衣机中进行包衣, 包衣完成后的物料通过传递仓或是套管系统离开隔离器。

Put the material into the isolator through RTP valve, loading into the coating machine for coating process, after finish the coating process move out the material from insulator by transfer cabinet or piping system.

R&D

- 制粒 GRANULATING
- 转序 CONVEYING
- 清洗 CLEANING
- 混合 MIXING
- 配料 DOSING
- 干燥 DRYING



R&D 实验

特点 Feature

- ▶ 可满足药物固体制剂中最高标准的防护需求;
- ▶ 符合为操作者提供OEB4/OEB5保护等级;
- ▶ 可根据客户工艺需要, 提供定制化的专业设计, 分别配置不同的手套操作端口、半身服或机器人来实现密闭条件下的各类操作;
- ▶ 空气处理系统使用可安全更换的双层PUSH/PUSH高效空气过滤器(HEPA)或袋进袋出高效;
- ▶ 物料进出方式可配置传递舱、套管系统和快速传递端口(RTP)等方式来实现;
- ▶ 各舱门之间具备互锁功能;
- ▶ 门密封方式可选用充气密封和机械压紧密封;
- ▶ 隔离器具备紧急模式处理系统: 当隔离器出现密封圈、手套破裂时, 舱内压力会快速上升, 隔离器自动启动警报同时调节风机频率, 加大排风量, 关闭进风阀, 保证裂隙风速在0.5 m/s以上以确保高活性物质不会外泄, 保护操作者与实验室环境安全;
- ▶ 可选配手套完整性测试仪, 手套可在线安全更换;
- ▶ 选配: 袋夹工具套装(PE袋、封口夹及封装工具);
- ▶ 由逻辑控制器控制设备运行, 人机界面操作简便, 可执行所有的操作;

- ▶ It can meet the highest standard of protection requirements in pharmaceutical solid dosage line.
- ▶ Complies with the OEB4/OEB5 protection rating for the operator.
- ▶ Provide customized professional design according to customer process requirements, and configure different glove operation, ports, half-suits or robots to achieve various operations in a closed conditions.
- ▶ Air handling unit use safety double layer PUSH/PUSH HEPA filter or BIBO HEPA filter.
- ▶ Material loading and unloading equipped with transfer cabinet, piping system or RTP.
- ▶ Interlock system for each cabinet.
- ▶ Door sealing equipped with air sealing and mechanical sealing.
- ▶ The isolator is equipped with an emergency mode processing system: when the sealing ring and gloves of the isolator break, the cabin pressure will rise rapidly, the isolator will automatically start the alarm, adjust the fan frequency, increase the exhaust air volume, close the air inlet valve, and ensure that the crack wind speed is above 0.5m /s to ensure that the highly active substances will not leak out, and protect the safety of the operator and the laboratory environment.
- ▶ Can equip with gloves detector, and online change the gloves.
- ▶ Option: Bag clip tool set (PE bag, sealing clip and packaging tool)
- ▶ The logic controller controls the equipment operation, and the HMI is easy to operate and can perform all operations.

技术参数 technical parameter

项目 Item	型号Model	BGBH-I	BGBH-III	BGBH-V	BHBH-10	BGBH-20	
生产能力 Capacity	Kg/batch	1	3	5	10	20	
总功率 Power	Kw	1.35	3.4	4.35	6	6	
电加热功率 Power of electrical heater	Kw	1.5	4.5	4.5	6	9	
防护等级 Protection level	--	OEB4/OEB5					
气流方式 Airflow mode	--	紊流 Turbulence					
换气次数 Ventilation frequency	H	15次以上 More than 15 times					
操作舱压力 Operating cabin pressure	Pa	-50pa~-150					
压缩空气 Compressed air	耗量Consumption	M ³ /h	0.2	0.3	0.6	0.9	1.1
	压力Pressure	Mpa	0.4-0.6				
外形尺寸 External dimensions	长宽高L*W*H	mm 根据设计 According to the design					
设备重量 Weight of the machine	Kg	根据设计 According to the design					

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GHL 高速混合制粒机

GHL High speed mixer granulator



概述 Summary

GHL型高速混合制粒机是一种在一道工序内将不同的粉状物料混合并制成颗粒的高效率设备，广泛应用于制药、食品、化工等行业。

GHL high speed mixer granulator is a high efficiency equipment that can mix different powder materials and granulate granule in one procedure. It is widely used for pharmaceutical industry, foodstuff industry and chemical industry, etc.

系统选配 Option

- 提升机上料、真空上料
- 物料仓体夹层，用于加热及冷却
- 湿法整粒机或摇摆颗粒机
- 粘合剂供液计量系统
- 数据在线打印系统
- WIP在位清洗系统
- 防爆功能
- 操作平台、护栏、楼梯
- Bin lifter feeding / vacuum loading
- Jacket of container, for heating and cooling
- wet milling / oscillating granulator
- Binder solution measure system
- Date online printing system
- WIP clean system
- explosion proof function
- operation platform, safety bar, ladder

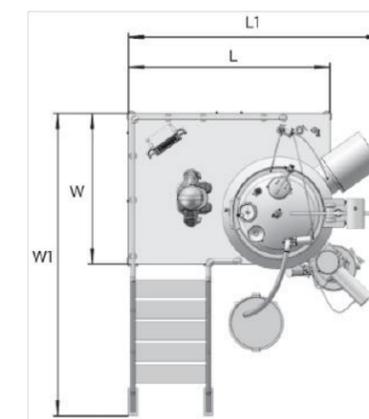
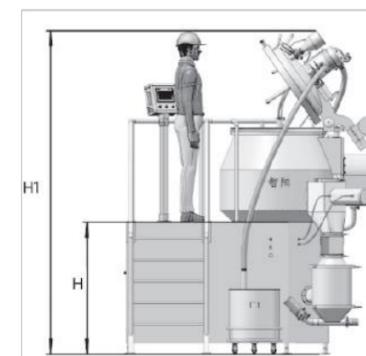
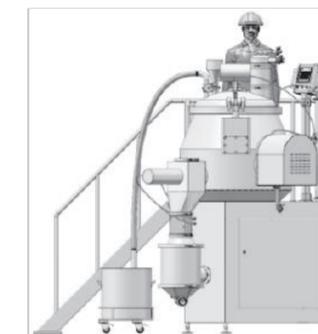
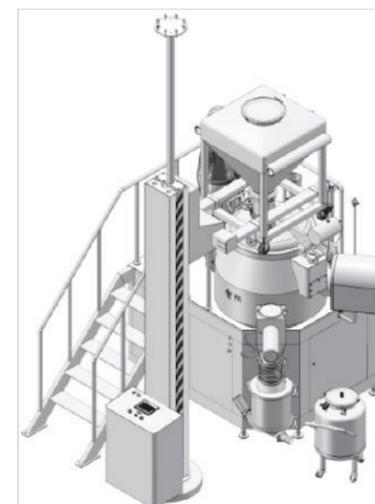
特点 Feature

- ▶ 本机采用卧式圆筒或圆锥形结构，用户可自由选择。
- ▶ 设备内表无死角，密闭状态下工作，符合“GMP”要求。
- ▶ 制粒时间短，高效节能。
- ▶ 制成的颗粒质地均匀，流动性好，为压片工序提供最理想的颗粒状原料。
- ▶ 较传统工艺减少25%粘合剂，干燥时间缩短。
- ▶ 每批仅干混2分钟，造粒1~4分钟，功效比传统工艺提高4~5倍。
- ▶ 整个操作具有严格的安全保护措施。
- ▶ 主药与辅料差异大时，仍能达到均匀结合，无分层现象。
- ▶ The machine adopts horizontal barrel (cone) structure. Its structure is reasonable.
- ▶ The inner surface of equipment has no dead corner. It works at sealed state and conforms to the requirements of GMP.
- ▶ Short granulating time, high efficiency and energy saving.
- ▶ The character of granule is uniform and the fluidization of granule is good. It provides ideal granule material to tablet pressing procedure.
- ▶ Compared with traditional process, it can reduce 25% of binder and shorten drying time too.
- ▶ Each batch needs 2 minutes to dry mixing and 1~4 minutes to granulating. Compared with traditional process, its efficiency can raise 4~5 times.
- ▶ Whole operation has strict safe protective measures.
- ▶ It can mix uniformly even when the gravity difference between main material and excipient is very big, without the phenomenon of delamination.

- R&D
- 制粒 GRANULATING
- 混合 MIXING
- 转序 CONVEYING
- 配料 DOSING
- 清洗 CLEANING
- 干燥 DRYING



制粒
Granulation



技术参数 technical parameter

项目 Item	型号 Model	GHL-20	GHL-30	GHL-50	GHL-100	GHL-150	GHL-200	GHL-250	GHL-300	GHL-400	GHL-450	GHL-500	GHL-600	GHL-800	GHL-1000	GHL-1200
原料容器容量 Container volume	L	20	30	50	100	150	200	250	300	400	450	500	600	800	1000	1200
生产能力 Capacity	Kg/batch	5	10	15	30	50	60	80	100	120	150	180	200	250	350	400
		物料比重按0.6g/cm³计 The material density is calculated at 0.6g/cm³														
总功率 Power	Kw	3.3	4.1	6.6	9	13.2	14	14	18	22.5	22.5	26	35.5	44.5	56	70
切割速度 Cutting Speed	Rpm	0~2880														
压缩空气 Compressed air	耗量 Consumption	M³/h	0.2	0.3	0.6	0.9	0.9	1.1	1.1	1.3	1.5	1.5	1.8	1.8	1.8	2.0
	压力 Pressure	Mpa	0.4~0.6													
设备重量 Weight of the machine	Kg	600	635	890	1200	1500	1800	2000	2500	3000	3500	3800	4000	4200	4500	5000
主机尺寸 Size of installation for reference	L	mm			1300	1500	1500	1700	1700	1800	1800	1800	2000	2100	2150	2200
	L1	mm			1560	1785	1850	2120	2130	2140	2250	2270	2300	2520	2720	2730
	W	mm			800	1000	1000	1200	1200	1300	1300	1300	1500	1500	1500	1800
	W1	mm			1800	2250	2250	2485	2500	2700	2800	2800	3000	3000	3000	3270
	H1	mm			800	1100	1100	1100	1100	1300	1300	1300	1300	1300	1300	1300

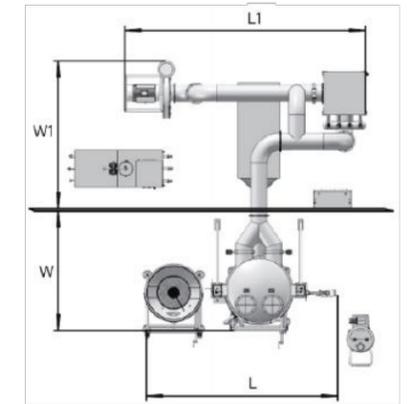
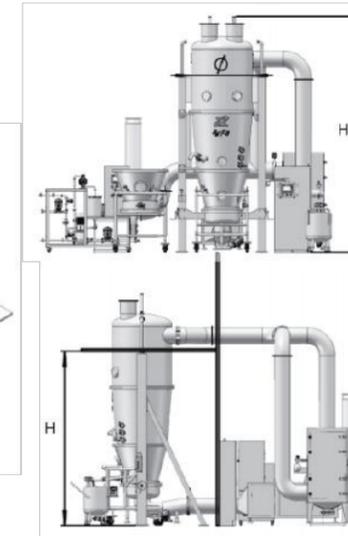
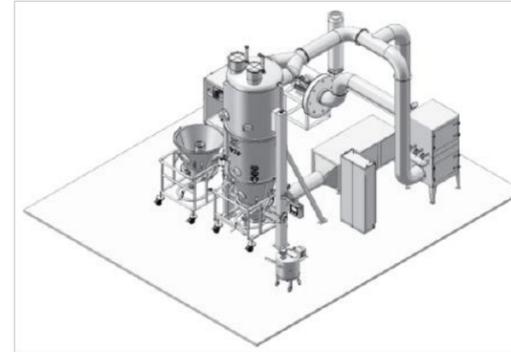
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DLP 多功能流化床制粒包衣机

DLP multi functional fluid-bed granulator coater machine



- R&D
- 制粒 GRANULATING
- 清洗 CLEANING
- 混合 MIXING
- 转序 CONVEYING
- 干燥 DRYING
- 配料 DOSING



制粒 Granulation

系统选配 Option

- 排风粉尘在线监测功能
- Dust detector for exhaust air
- 进风除湿功能
- Inlet air dehumidifier
- 整机防爆功能
- Whole machine explosion proof
- 干燥料仓干燥搅拌功能
- Stirring for drying trolley
- 风量在线监测功能
- Air volume online detector
- 排风二次除尘功能
- Exhaust air secondary dust collector function
- 滤袋大盘自动升降功能
- Bag filter frame automatic lifting down function
- 在线清洗
- Online CIP
- 供液搅拌罐系统
- Stirring solution tank



顶喷制粒床
Top spray granulating



底喷包衣床
Bottom spray coating



旋流流化床
Turbojet granulating / coating



侧喷制丸包衣床
Centrifugal spray pelleting / coating

概述 Summary

DLP流化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。

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

原理 Principle

该机配有进风加热系统、流化床系统、顶喷系统、底喷系统、侧喷系统、出风除尘系统等组成。顶喷为制粒功能；底喷为微丸颗粒粉体包衣功能；侧喷为制微丸功能。以上功能都在同一台多功能流化床设备上实现。用户按实际生产工艺选配功能要求

The machine equipped with inlet air heating system, fluidizing system, top spray system, bottom spray system, centrifugal spray system, exhaust dust collection system, etc. Top spray for granulating, bottom spray for pellets, granules and powder coating, centrifugal spray for pelletizing. All above function can make in one multi functional fluid-bed. Choose the function accordingly to customer's requirements.

特点 Feature

- ▶ 集制粒、制丸、包衣、干燥多种功能于一体。
- ▶ 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、丸的薄膜、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、丸状物料干燥。

- ▶ Multi-function such as granulating, pelletizing, coating, drying in one achie.
- ▶ Powder material granulating.
- ▶ Powder material coating.
- ▶ Powder material pelletizing.
- ▶ Chinese medicine spray drying, granulating and coating.
- ▶ Make 10-30 meshes big granule.
- ▶ Film coating of powder, granules and pellets, enteric release, slow and ontrl release coating.
- ▶ Taste masking, odor, moisture-proof, anti-oxidation, prevent water, heat insulation, coloration and separation coating.
- ▶ Powder, granule, pellet agglomerate material drying.

技术参数 technical parameter

项目 Item	型号 Model	DLP-10	DLP-15	DLP-20	DLP-30	DLP-45	DLP-60	DLP-90	DLP-120	DLP-150	DLP-200	DLP-300	DLP-500
生产能力 Capacity	Kg/batch	5-10	10-15	10-20	15-30	20-45	30-60	45-90	60-120	75-150	100-200	150-300	250-500
风机功率 Power of fan	Kw	5.5	7.5	7.5	11	11	15	18.5	18.5	18.5	22	37	45
噪音 Noise	db	风机隔离处理噪音小于75分贝 No more than 75db Separated of fan											
压缩空气 Compressed air	耗量 Consumption	M³/h	0.9	0.9	0.9	0.9	0.9	1.3	1.8	1.8	2.0	3.0	3.6
	压力 Pressure	Mpa	0.4-0.6										
蒸汽 Steam	耗量 Consumption	M³/h	35	45	45	60	100	100	100	150	150	200	280
	压力 Pressure	Mpa	0.4-0.6										
电加热功率 Power of electrical heater	Kw	按客户要求设计 By client											
主机尺寸 Size of installation for reference	Ø	mm	700	800	900	1000	1100	1200	1300	1400	1500	1600	1800
	L	mm	1120	1220	1320	1420	1520	1720	1820	1950	2075	2180	2376
	L1	mm	2110	2220	2720	2820	2920	3420	3620	3850	4075	4280	4676
	W	mm	2010	2070	2130	2240	2250	2300	2500	2700	2800	2900	3000
	L2	mm	3200	3300	3500	3800	4000	4550	4700	4800	5000	5000	5500
	W1	mm	2500	2500	2500	2500	2800	2800	3000	3000	3000	3000	3500
	H	mm	--	--	--	3300	3300	3500	3800	4000	4000	4000	4000
H1	mm	3220	3350	3650	3720	3820	4660	5200	5500	5600	5800	5800	

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BGB 高效薄膜包衣机

High efficiency film coating machine



概述 Summary

BGB R&D 高效包衣实验机可满足实验室包衣需求。主要用于制药、食品、生物制品等领域，可为各种片剂、丸剂、糖果等包制各种有机薄膜，水溶性薄膜和普通糖衣，可以实现药物的缓释作用。

BGB R&D lab size high efficiency film coating machine can fulfill lab size coating requirement. Mainly used in pharmaceuticals, foodstuff, biologic products industries, etc. Can use for different tablets, pellets, candy film coating, water soluble film coating and normal sugar coating. Also can realize the slow release function.

原理 Principle

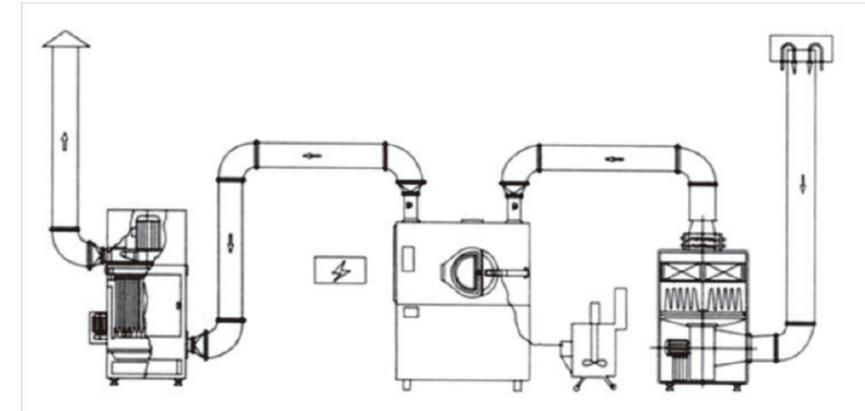
片芯在洁净密闭的旋转包衣锅内，不停地作复杂轨迹运动，薄膜介质经喷枪以雾状均匀喷到片芯表面，由热风柜提供的经过过滤的清洁热空气穿透片床，使喷在片芯表面形成的包衣介质迅速干燥后形成薄膜包衣层。

The core tablets continuously rotating inside the compact coating pan, the film medium uniformly spray on the tablets surface through spray gun. The clean air after filtration from the heating cabinet get into the pan and drying the coating medium on the surface of tablets to make a film layer on the tablets.

- R&D
- 制粒 GRANULATING
- 转序 CONVEYING
- 清洗 CLEANING
- 混合 MIXING
- 配料 DOSING
- 干燥 DRYING



Granulation 制粒



特点 Feature

- ▶ 一台主机可配套多个不同容积的包衣锅使用，满足不同物料及物料量的实验要求。
- ▶ 包衣喷枪的位置及喷射角度可调，满足不同包衣量要求。
- ▶ 包衣过程中微负压，全密闭操作，药物包衣过程中完全隔离，避免药物污染。
- ▶ 薄膜包衣能连续进行并同时喷洒包衣介质、干燥、排风，在同一密闭容器内就可完成全部包衣工序，大大提高工效。
- ▶ 出料和进料可自动完成，清洗方便。
- ▶ 采用特制喷枪，提高包衣质量。

- ▶ One machine can equip with different size coating pans to fulfill different material and capacity requirements.
- ▶ Spray gun position and angle adjustable to fulfill different capacity requirement.
- ▶ Micro negative pressure during coating process, compact operation, the medicine coating process fully isolated to avoid contamination.
- ▶ Film coating process can continuous working, and meantime spray coating medium, drying, exhausting in the same compact pan to finish the whole coating process. Highly increase the efficiency.
- ▶ Loading and discharging automatically finished, easy to clean.
- ▶ Adopts special design spray gun to improve the coating quality.

技术参数 technical parameter

项目 Item	型号 Model	BGB-5	BGB-10	BGB-40	BGB-75	BGB-150	BGB-350	BGB-600
生产能力 Capacity	Kg/batch	5	10	40	75	150	350	600
滚桶转速 Speed of drum	Rpm	4~60	6~30	4~19	4~19	2~15	2~11	2~10
主机电动机功率 Main machine power	Kw	0.55	0.55	0.75	1.1	2.2	4	5.5
热风调温范围 Hot air range	°C	常温 ~ 80°C						
热空气过滤精度 Hot air filter fineness	µm	0.5µm (10万级)						
热风机电动机功率 Blower power	Kw	0.55	0.75	1.1	1.1	1.1	2.2	5.5
排风机电动机功率 Exhaust fan power	Kw	1.5	2.2	2.2	3	5.5	7.5	15
振打清灰装置电动机功率 Electric motor power of vibration cleaning device	Kw	0.37						
蠕动泵电动机功率 Peristaltic pump power	mm	0.18						
主机外形尺寸 (长*宽*高) Overall size	mm	800*650*1300	1100*750*1540	1200*950*1600	1350*1010*1630	1570*1260*2000	2000*1560*2300	2000*2240*2330
主机重量 Main machine weight	mm	300	380	450	550	900	1650	2500

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FL-B 流化床制粒干燥机 (一步制粒机)

FL-B Fluid bed granulator dryer (One-step granulator)



系统选配 Option

- 排风粉尘在线监测功能
- 进风除湿功能
- 整机防爆功能
- 干燥料仓干燥搅拌功能
- 风量在线监测功能
- 排风二次除尘功能
- 滤袋大盘自动升降功能
- 在线清洗
- 供液搅拌罐系统
- Dust detector for exhaust air
- Inlet air dehumidifier
- Whole machine explosion proof
- Stirring for drying trolley
- Air volume online detector
- Exhaust air secondary dust collector function
- Online CIP
- Stirring solution tank

概述 Summary

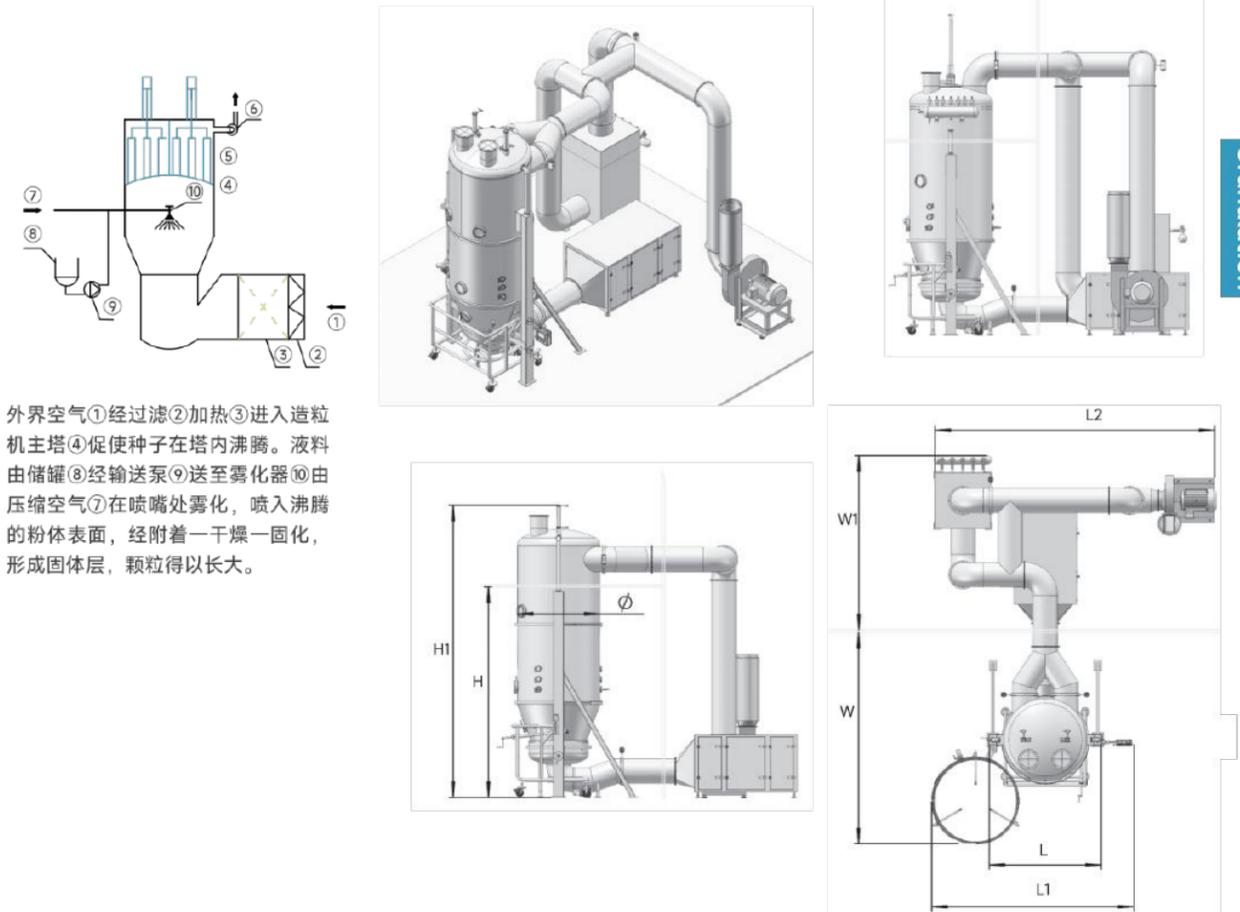
流化床制粒干燥机主要用于：医药、食品、化工等行业的粉末物料混合、制粒、干燥、颗粒“顶喷”包衣等作业。如片剂颗粒、速溶饮料、调味品用颗粒。本机按JB20014-2004《药用沸腾制粒器》标准进行设计和制作。

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

特点 Feature

- ▶ 混合-制粒-干燥-一步法达到工艺要求。
- ▶ 双捕集滤袋系统，清灰彻底。
- ▶ 多流体雾化器，确保成粒均匀，粉末含量极低。
- ▶ 可选配2Bar的防爆设计。
- ▶ 按GMP规范设计、制造及工程配置布局。
- ▶ Mixing-granulating-drying in one-step.
- ▶ Adopting double chamber filtering bags system, remove dust completely.
- ▶ Adopting multi-fluid nozzle, it guarantees that the formed granule is uniform and the content of powder is very low.
- ▶ Can choose 2 bar explosion-proof design.
- ▶ Designed, manufactured and laid out by GMP.

- R&D
- 制粒 GRANULATING
- 混合 MIXING
- 转序 CONVEYING
- 配料 DOSING
- 清洗 CLEANING
- 干燥 DRYING



外界空气①经过滤②加热③进入造粒机主塔④促使种子在塔内沸腾。液料由储罐⑧经输送泵⑨送至雾化器⑩由压缩空气⑦在喷嘴处雾化，喷入沸腾的粉体表面，经附着—干燥—固化，形成固体层，颗粒得以长大。

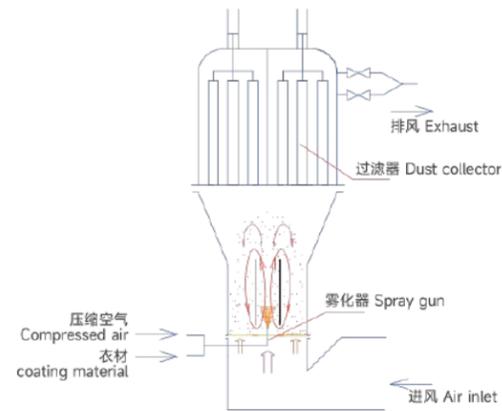
技术参数 technical parameter

项目 Item	型号 Model	FL-10	FL-15	FL-20	FL-30	FL-45	FL-60	FL-90	FL-100	FL-120	FL-150	FL-200	FL-300	FL-500	
生产能力 Capacity	Kg/batch	10	15	20	30	45	60	90	100	120	150	200	300	500	
风机功率 Power of fan	Kw	4	5.5	7.5	11	11	15	18.5	18.5	18.5	18.5	22	37	45	
噪音 Noise	db	风机隔离处理噪音小于75分贝 No more than 75db Separated of fan													
压缩空气 Compressed air	耗量 Consumption	M ³ /h	0.9	0.9	0.9	0.9	0.9	1.3	1.8	1.8	2.0	3.0	3.6	4.0	
	压力 Pressure	Mpa	0.4~0.6												
蒸汽 Steam	耗量 Consumption	M ³ /h	35	45	45	60	100	100	100	150	150	200	280	450	500
	压力 Pressure	Mpa	0.4~0.6												
电加热功率 Power of electrical heater	Kw	按客户要求设计 By client													
主机尺寸 Size of installation for reference	∅	mm	550	550	550	700	850	1000	1100	1100	1200	1300	1400	1600	1800
	L	mm	1120	1020	1020	1170	1320	1480	1580	1580	1680	1880	1995	2175	2400
	L1	mm	2110	2250	2250	2450	2600	2850	2980	2980	3090	3395	3560	3920	4420
	W	mm	2010	2500	2500	2700	2850	3000	3200	3200	3320	3570	3820	3280	4190
	L2	mm	1800	2000	2000	2000	2000	2300	2500	2500	2500	2650	3200	5000	5200
	W1	mm	2000	2000	2000	2000	2000	2300	2500	2500	2500	2500	3500	4100	3790
	H	mm	--	--	--	--	3300	3600	3600	3600	3800	3800	3800	4000	4400
H1	mm	2800	3050	3450	3500	3620	4500	4600	4600	4600	4800	4960	5660	5800	

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LDP-B 流化床包衣机

LDP-B fluid-bed coater



特点 Feature

- ▶ 底喷流态化，物料具有一定规律的运行轨迹，因而可获得均匀、连续的药膜。
- ▶ 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。
- ▶ 物料分散性极好，无粘连现象。
- ▶ Coating of bottom spraying, material flow in order. We can get uniform and continuous film.
- ▶ Taste masking odor, moisture proof, anti oxidation, 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.

概述 Summary

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。

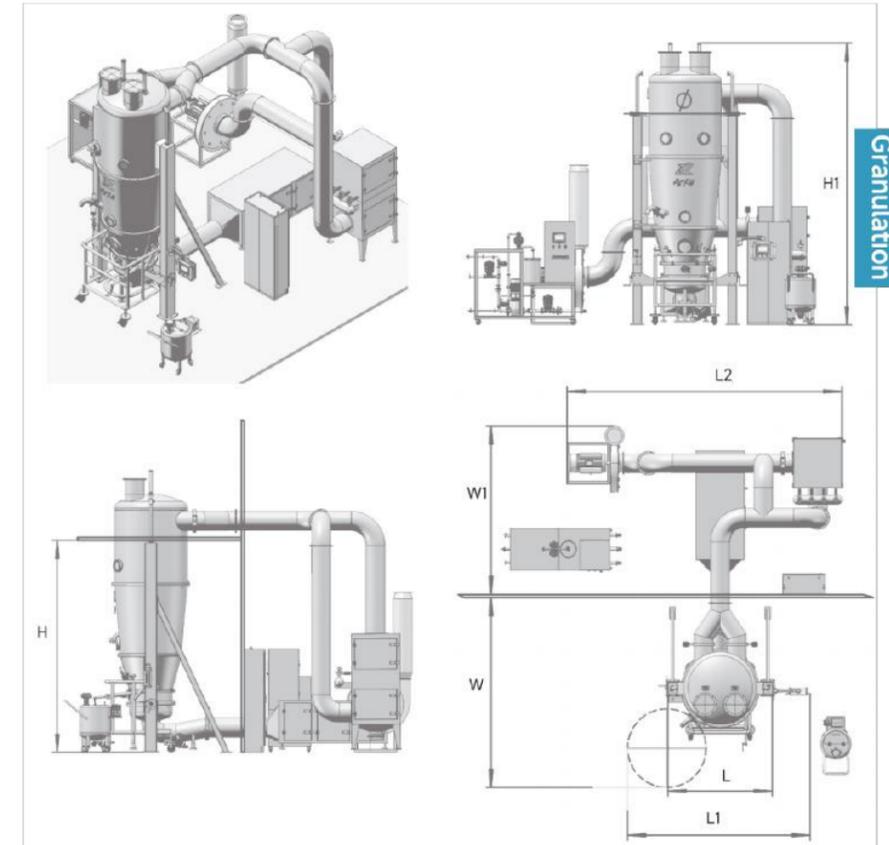
Fluid-bed coater is a new style coating equipment that combined fluid-bed spraying technology and coating well. It is widely used for film slow and control releasing coating, framework slow and control releasing capsule, pellet coating, granule, powder coating, etc.

- R&D
- 制粒 GRANULATING
- 混合 MIXING
- 转序 CONVEYING
- 配料 DOSING
- 清洗 CLEANING
- 干燥 DRYING



系统选配 Option

- 排风粉尘在线监测功能
- 进风除湿功能
- 整机防爆功能
- 风量在线监测功能
- 排风二次除尘功能
- 滤袋大盘自动升降功能
- 在线清洗
- 供液搅拌罐系统
- Dust detector for exhaust air
- Inlet air dehumidifier
- Whole machine explosion proof
- Air volume online detector
- Exhaust air secondary dust collector function
- Bag filter frame automatic lifting down function
- Online CIP
- Stirring solution tank



制粒
Granulation

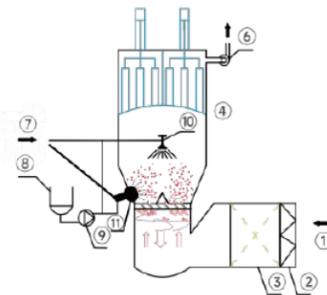
技术参数 technical parameter

项目 Item	型号 Model	LDP-10	LDP-15	LDP-20	LDP-30	LDP-45	LDP-60	LDP-90	LDP-120	LDP-150	LDP-200	LDP-300	LDP-500	
生产能力 Capacity	Kg/batch	5-10	10-15	10-20	15-30	20-45	30-60	45-90	60-120	75-150	100-200	150-300	250-500	
风机功率 Power of fan	Kw	5.5	7.5	7.5	11	11	15	18.5	18.5	18.5	22	37	45	
噪音 Noise	db	风机隔离处理噪音小于75分贝 No more than 75db Separated of fan												
压缩空气 Compressed air	耗量 Consumption	M ³ /h	0.9	0.9	0.9	0.9	0.9	1.3	1.8	1.8	2.0	3.0	3.6	3.6
	压力 Pressure	Mpa	0.4~0.6											
蒸汽 Steam	耗量 Consumption	M ³ /h	35	45	45	60	100	100	100	150	150	200	280	450
	压力 Pressure	Mpa	0.4~0.6											
电加热功率 Power of electrical heater	Kw	按客户要求设计 By client												
主机尺寸 Size of installation for reference	∅	mm	700	800	900	1000	1100	1200	1300	1400	1500	1600	1800	1900
	L	mm	1120	1220	1320	1420	1520	1720	1820	1950	2075	2180	2376	2482
	L1	mm	2110	2220	2720	2820	2920	3420	3620	3850	4075	4280	4676	4880
	W	mm	2010	2070	2130	2240	2250	2300	2500	2700	2800	2900	3000	3000
	L2	mm	3200	3300	3500	3800	4000	4550	4700	4800	5000	5000	5500	6000
	W1	mm	2500	2500	2500	2500	2800	2800	2800	3000	3000	3000	3500	3500
	H	mm	--	--	--	3300	3300	3500	3800	4000	4000	4000	4000	4000
H1	mm	3220	3350	3650	3720	3820	4660	5200	5500	5600	5800	5800	5900	

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FBDX 旋流流化床制粒包衣机

FBDX turbojet fluid-bed granular coater



外界空气①经过滤②加热③通过倾斜的导风板间的狭窄缝隙进入造粒包衣机主塔④，促使种子在塔内形成旋转的螺旋流。液料由储罐⑧经输送泵⑨送至雾化器⑩或⑪，由压缩空气⑦在喷嘴处雾化，喷入呈规则流态化的粉体或颗粒物料表面，经附着—干燥—固化，形成固体层，颗粒得以长大及在物料表面均匀涂膜成型。

概述 Summary

旋流流化床制粒包衣机是将流化床做成叶片式结构的流化床，并使叶片呈一定斜度，让气流从叶片的间隙通过。形成环流状的强大气流，使物料呈旋涡状的有序运动，同时安装在侧壁的气动喷嘴将粘合剂或包衣液喷入呈旋涡状的物料层，从而将粉体制成颗粒或获得连续均匀的衣膜。

其广泛用于粉体制粒和粉体、颗粒、丸的薄膜、肠溶、缓控释包衣，以及各种物料的掩味、防潮、防水、着色、隔热、隔离等包衣。

FB Turbojet fluid-bed granulator coater has vane-shape bottom of hopper which has a certain lean. let the air flow pass through the rift then form circle-shape strong air flow, it makes material rotate as regular turbojet movement. Meanwhile the pneumatic nozzle installed under left wall spray binder or coating liquid into turbojet material, in this way granule or coating film can be obtained.

It is widely used in coating of powder, granule, pellet, enteric-releasing, slow and control releasing, and coating of taste masking, moisture proof anti oxidation, prevent water, heat insulation, coloration and separation etc.

特点 Feature

- ▶ 旋流驱动空气分配器，确保物料有序运动。
- ▶ 旋流流态化，克服了沟流及死角现象
- ▶ 制得的颗粒多孔、速溶、真球度高、表面光泽度好、致密性强、不易破碎。
- ▶ 吸潮性和流动性差的物料也能制成合格的颗粒。
- ▶ Rotational flow drives air distributor in order to guarantee that material can move in order.
- ▶ Fluidization of rotational flow, it overcomes channel flow and dead corner.
- ▶ The prepared granule is porous and can solve quickly, with high sphericity coefficient, good surface luster, certain intensity and is not easy to break.
- ▶ It can deal with low moisture-absorb and fluidity material to gain complete granule.

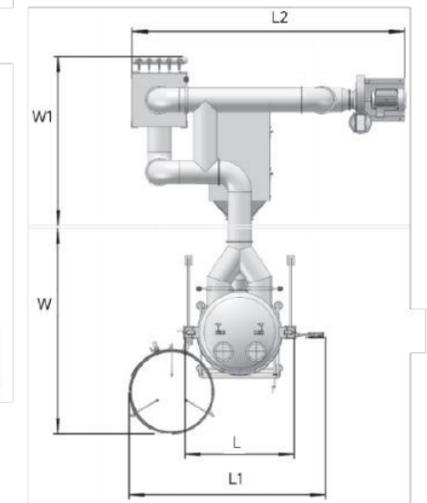
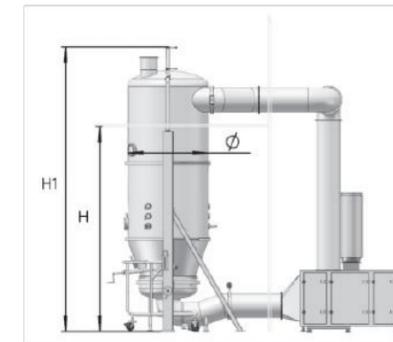
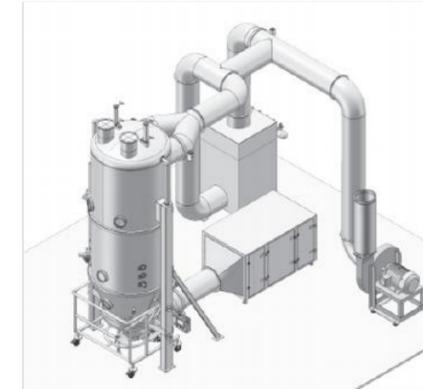
- R&D
- 制粒 GRANULATING
- 混合 MIXING
- 转序 CONVEYING
- 配料 DOSING
- 清洗 CLEANING
- 干燥 DRYING



制粒
Granulation

系统选配 Option

- 排风粉尘在线监测功能
- 进风除湿功能
- 整机防爆功能
- 风量在线监测功能
- 排风二次除尘功能
- 滤袋大盘自动升降功能
- 在线清洗
- 供液搅拌罐系统
- Dust detector for exhaust air
- Inlet air dehumidifier
- Whole machine explosion proof
- Air volume online detector
- Exhaust air secondary dust collector function
- Bag filter frame automatic lifting down function
- Online CIP
- Stirring solution tank



技术参数 technical parameter

项目 Item	型号 Model	FBDX -10	FBDX -15	FBDX -20	FBDX -30	FBDX -45	FBDX -60	FBDX -90	FBDX -100	FBDX -120	FBDX -150	FBDX -200	FBDX -300	FBDX -500	
生产能力 Capacity	Kg/batch	10	15	20	30	45	60	90	100	120	150	200	300	500	
风机功率 Power of fan	Kw	4	5.5	7.5	11	11	15	18.5	18.5	18.5	18.5	22	37	45	
噪音 Noise	db	风机隔离处理噪音小于75分贝 No more than 75db Separated of fan													
压缩空气 Compressed air	耗量 Consumption	M ³ /h	0.9	0.9	0.9	0.9	0.9	1.3	1.8	1.8	2.0	3.0	3.6	4.0	
	压力 Pressure	Mpa	0.4-0.6												
蒸汽 Steam	耗量 Consumption	M ³ /h	35	45	45	60	100	100	100	150	150	200	280	450	500
	压力 Pressure	Mpa	0.4-0.6												
电加热功率 Power of electrical heater	Kw	按客户要求设计 By client													
主机尺寸 Size of installation for reference	Ø	mm	550	550	550	700	850	1000	1100	1100	1200	1300	1400	1600	1800
	L	mm	1120	1020	1020	1170	1320	1480	1580	1580	1680	1880	1995	2175	2400
	L1	mm	2110	2250	2250	2450	2600	2850	2980	2980	3090	3395	3560	3920	4420
	W	mm	2010	2500	2500	2700	2850	3000	3200	3200	3320	3570	3820	3820	4190
	L2	mm	1800	2000	2000	2000	2000	2300	2500	2500	2500	2650	3200	5000	5200
	W1	mm	2000	2000	2000	2000	2000	2300	2500	2500	2500	2500	3500	4100	3790
	H	mm	--	--	--	--	3300	3600	3600	3600	3800	3800	3800	4000	4400
H1	mm	2800	3050	3450	3500	3620	4500	4600	4600	4600	4800	4960	5660	5800	

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FG 流化床干燥机

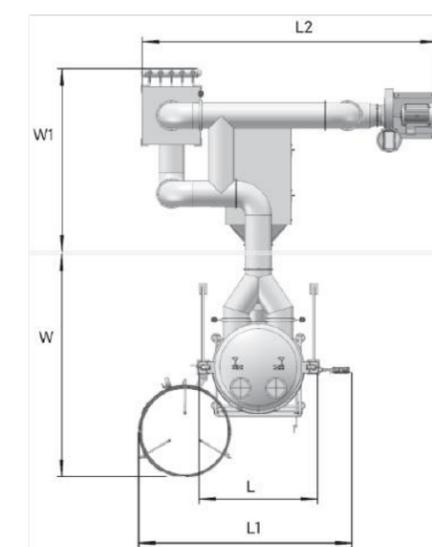
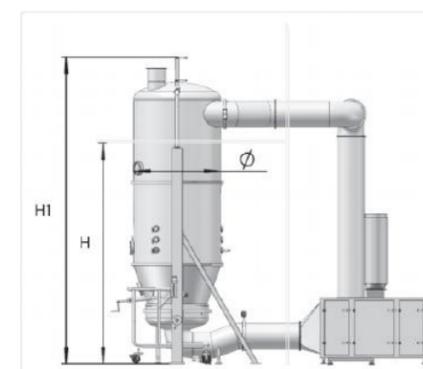
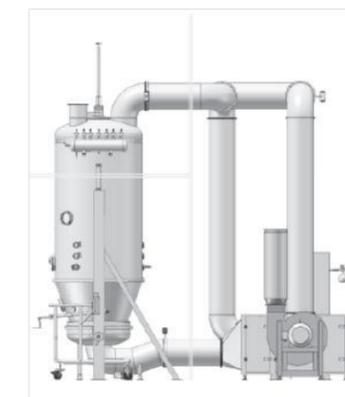
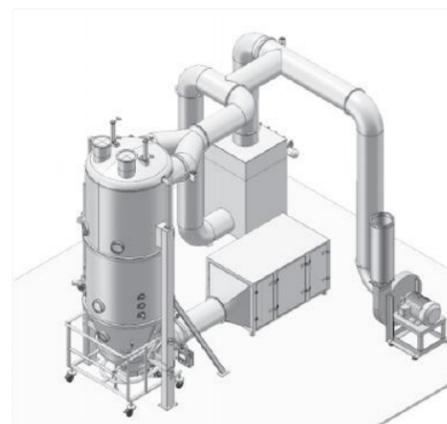
FG fluid-bed dryer



- R&D
- 制粒 GRANULATING
- 清洗 CLEANING
- 混合 MIXING
- 转序 CONVEYING
- 干燥 DRYING
- 配料 DOSING



Granulation
制粒



概述 Summary

本机适用于粉末或颗粒的干燥，速度为一般烘箱的10—20倍。

The machine is suitable for drying powder or granule. In general, its speed is 10-20 times of common oven.

特点 Feature

本设备混合、干燥过程在同一设备内完成。质热传递快，在封闭负压下操作，无粉尘飞扬，设备无死角，清洗彻底，无交叉污染，加热可采用蒸汽或电热。采用抗静电过滤材料，滤袋升降以气动方式操作，操作安全，满足GMP卫生规范要求。

The mixing and drying process of the equipment can be finished in one equipment. The transfer of mass and heat is quick. Because of operation at negative pressure. There is no flying dust. The equipment has no dead corner and cleaning is completely and without cross pollution. Its heating source may use steam or electric heater. It adopts antistatic filtering material. The lift of the filter bag adopts pneumatic operation. So the operation is safe. It meets the requirements of GMP.

系统选配 Option

- 排风粉尘在线监测功能
- 进风除湿功能
- 整机防爆功能
- 干燥料仓干燥搅拌功能
- 风量在线监测功能
- 排风二次除尘功能
- 滤袋大盘自动升降功能
- 在线清洗
- Dust detector for exhaust air
- Inlet air dehumidifier
- Whole machine explosion proof
- Stirring for drying trolley
- Air volume online detector
- Exhaust air secondary dust collector function
- Bag filter frame automatic lifting down function
- Online CIP

技术参数 technical parameter

项目 Item	型号 Model	FG-10	FG-15	FG-20	FG-30	FG-45	FG-60	FG-90	FG-100	FG-120	FG-150	FG-200	FG-300	FG-500	
生产能力 Capacity	Kg/batch	10	15	20	30	45	60	90	100	120	150	200	300	500	
风机功率 Power of fan	Kw	4	5.5	7.5	11	11	15	18.5	18.5	18.5	18.5	22	37	45	
噪音 Noise	db	风机隔离处理噪音小于75分贝 No more than 75db Separated of fan													
压缩空气 Compressed air	耗量 Consumption	M ³ /h	0.3	0.3	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6	
	压力 Pressure	Mpa	0.4~0.6												
蒸汽 Steam	耗量 Consumption	M ³ /h	35	45	45	60	100	100	100	150	150	200	280	450	500
	压力 Pressure	Mpa	0.4~0.6												
电加热功率 Power of electrical heater	Kw	按客户要求设计 By client													
主机尺寸 Size of installation for reference	Ø	mm	550	550	550	700	850	1000	1100	1100	1200	1300	1400	1600	1800
	L	mm	1120	1020	1020	1170	1320	1480	1580	1580	1680	1880	1995	2175	2400
	L1	mm	2110	2250	2250	2450	2600	2850	2980	2980	3090	3395	3560	3920	4420
	W	mm	2010	2500	2500	2700	2850	3000	3200	3200	3320	3570	3820	3820	4190
	L2	mm	1800	2000	2000	2000	2000	2300	2500	2500	2500	2650	3200	5000	5200
	W1	mm	2000	2000	2000	2000	2000	2300	2500	2500	2500	2500	3500	3790	4100
	H	mm	--	--	--	--	3300	3600	3600	3600	3800	3800	3800	4000	4400
H1	mm	2800	3050	3450	3500	3620	4500	4600	4600	4600	4800	4960	5660	5800	

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GK 干法制粒机

GK roller compactor

概述 Summary

干法制粒机是新型高效制粒设备，广泛适用于制药、化工、食品、制粒生产，基于诸多优点，在各个行业中广泛涉及到各种活性药物的加工处理，特别是对湿热敏感药物更是必不可少的制粒设备。

Dry granulation machine is a new and efficient granulation equipment widely used in pharmaceutical, chemical, food factory. Based on many advantages, it is widely involved in the processing and treatment of various active drugs in various industries, especially for wet and heat sensitive drugs, which is an essential granulation equipment.

特点 Feature

该系列是广泛吸收国内外先进技术，自主研发的干法制粒机系列，主机与工作部分分开设置，所有与物料接触部分容易拆卸清洗。多种先进技术的应用，大大提高了处理物料的范围和颗粒的质量及成品率。多种自动控制技术的应用，使该系列产品自动化程度更高。同时从布局到细节都精心设计了有效防止粉尘和交叉污染，以及减少净化面积的措施完全符合药品生产的GMP要求。

This dry granulator is independently developed by absorbing advanced technologies from both domestic and foreign market. The main engine and working parts are set separately, and all parts in contact with materials are easy to disassemble and clean. The application of various advanced technologies greatly improves the range of material processing, meanwhile, well-designed layout and details to prevent dust and cross contamination effectively as well as reduce purification area, which fully comply with the GMP requirements of drug production.



原理 Principle

经配料混合好的干粉物料，由专用加料机(气动或机动)加入到上料斗内，经螺旋输送机输送到压力室，两个高压挤压力轮将物料压制成高密度薄片，通过切制系统切制成小块，经由两级整粒系统制成要求大小的颗粒，完成制粒过程。

The dry powder materials mixed with ingredients to feeding hopper by a dedicated feeder (pneumatic or motorized) and transported to the pressure chamber through a screw conveyor. Two high-pressure extrusion wheels press the materials into high-density thin sheets, then cut into small pieces through a cutting system, produce the required granules size by those two steps, the granulation process is finished.

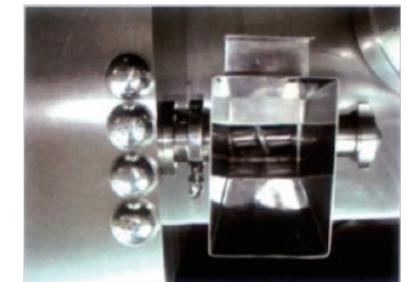
技术参数 technical parameter

项目 Item	型号 Model	GK-50	GK-100	GK-120	GK-200	GK-300
生产能力 Capacity	kg/batch	10~30	30~100	40~120	50~200	100~300
料斗容积 Volume	L	3	5	7	10	15
轧辊宽度 Width of roller	mm	50	100	120	200	280
轧辊压力 Pressure of roller	Mpa	0~7	0~7	0~7	0~7	0~7
轧辊转速 Speed of roller	r/min	1-60r/min (变频调速VVVF)				
送料速度 Feeding speed	r/min	1-80r/min (变频调速VVVF)				
辊轮驱动电机 Roller motor	kw	3	7.5	11	13.5	32.7
送料驱动电机 Feeding motor	kw	1.1	2.2	2.2	3	3
整粒驱动电机 Milling motor	kw	1.1	2.2	2.2	3	7.5
油泵驱动电机 Oil pump motor	kw	0.75	1.1	1.1	2.2	2.2
外形尺寸 External dimensions	mm	1.2*0.7*1.7	1.8*1.2*2.1	1.8*1.3*2.2	2.1*1.5*2.3	2.2*1.8*2.5
设备重量 Weight of the machine	T	1	1.5	2	2	3

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JW 挤出一滚圆微丸机组

JW extruding-spheronization pellets



概述 Summary

前道工序制好的湿材物料进行挤条—离心抛圆，完成制丸。
To extrude and spheroidize the fore head process,wet material on the centrifugal dish,the pellets can begot.

特点 Feature

- ▶ 挤条—抛圆在一台机器上完成。
- ▶ 抛丸时，可洒入干粉，不易粘连。
- ▶ 成丸表面致密，利于包衣。
- ▶ 成丸粒径均匀，真球度高。
- ▶ Extruding--spheroidizing in one machine.
- ▶ No adhesive during spheroidizing as the power is acceded.
- ▶ The pellet has compact surface and easy for coating.
- ▶ The size distribution of pellet is narrow and high round.

技术参数 technical parameter

项目 Item	型号 Model	JW-5	JW-10	JW-30
产量 Capacity	Kg/h	3~5	5~10	10~30
成丸直径 Dia of pellet	mm	0.6~3.5	0.6~3.5	0.6~3.5
装机功率 Power	Kw	4.2	8.6	17
外形尺寸 External dimensions	mm	900*680*1100	1550*950*1350	1850*950*1400

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JWB 挤出一滚圆包衣机

JWB multifunctional pelletizing coater



概述 Summary

该机具有挤出，滚圆，干燥，包衣四种基本功能。适用于挤出滚圆法制备微丸颗粒，同时也可对微丸进行包衣干燥作业；条状颗粒的制备；微丸颗粒的制造；丸颗粒剂的包衣（薄膜，肠溶性，胃溶性，抗氧化性，缓控释包衣）等作业。

This machine has extruding pelleting, drying and coating four functions. It's suitable for extruding pelleting granules, and also can use for coating and drying for the pelles; Make strip granules; Make micro pellets granules; Coating for pellets (film coating, enteric solubility coating, gastric solubility coating, oxidation resistance coating, controlled released coating,etc.)

特点 Feature

- ▶ 该机可同机实现挤出制粒，滚圆，干燥，包衣四项基本功能。
- ▶ 独特的控温设计，确保热敏性物料不变性。
- ▶ 挤出可制备0.1-0.3mm微丸剂，及0.3mm以上微丸颗粒。

- ▶ 离心式滚圆，完成微丸颗粒制备重复性高。
- ▶ 独特气流机构，物料水份补充喷雾系统，适用于不同产品的制丸要求。
- ▶ 包衣作业，包材自动喷雾系统，自动加热温控系统。
- ▶ 设计制作符合cGMP规范，清洗快速，彻底，无交叉污染。
- ▶ The machine has extruding granules, pelleting, drying, coating four basic functions.
- ▶ Special temperature control design to ensure the heat sensitive material invariance.
- ▶ Can make 0.1-0.3mm small granules, and can make big than 0.3mm micro pellets.
- ▶ Centrifugal pelleting to finish micro pellets.
- ▶ Special airflow structure and material water spray system suit for different material pelleting requirements.
- ▶ Coating process, coating material automatic spray system and automatic temperature control system.
- ▶ The design and manufacture conform to cGMP standard, easy and quickly for clean, no cross contamination.

技术参数 technical parameter

项目 Item	型号 Model	JWB-360	JWB-500	JWB-700	JWB-1000
投料量 Capacity	Kg/batch	0.5~1.5	5~10	10~15	15~25
转子速度 Speed of rotor	Rpm	0~650	0~250	0~180	0~150
转子直径 Dia of rotor	mm	360	500	700	1000
挤出电机功率 Power of extruding	Kw	0.55	1.5	2.2	4
风机功率 Power of fan	Kw	1.5	3	4	5.5
供粉装置电机功率 Power of motor	Kw	0.37	1.1	1.5	2.2

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BZJ 离心造粒包衣机

BZJ centrifugal granulating coating machine



制粒
Granulation

概述 Summary

粉末物料包衣造粒。
球形颗粒（丸剂）制造。
丸剂包衣（薄膜、肠溶性、保护层）。
缓释包衣、造粒。

Powder material's coating and granulating.
Pelletizing.
Pellet coating (film, enteric release, protective layer).
Slow releasing coating, granulating.

特点 Feature

- ▶ 完成粉末的包衣、造粒。
- ▶ 完成粉、粒、丸的掩味、着色。
- ▶ 完成粉末的包衣获得真球度极高的产品。
- ▶ 完成粉末的包衣液化作业，不易团聚、粘附。
- ▶ 完成粉末的包衣工艺重复性极高。
- ▶ 完成粉末的包衣供液量自动控制，床内温度稳定无飞溅。
- ▶ 完成粉末的包衣粉末自动喷洒，计量准确。
- ▶ 完成粉末的包衣由于离心力的压密作用可处理低密度物料。
- ▶ 完成粉末的包衣制粒(丸)、包衣、干燥一次完成。
- ▶ 设计、制造符合GMP规范，清洗快速、彻底、无交叉污染。

- ▶ Coating and granulating of powder.
- ▶ Taste masking and coloring of powder, granule and pellet.
- ▶ Coating of powder and get high round.
- ▶ Powder coating, not easy to agglomerate and adhere.
- ▶ Powder coating and have high repeatability of process.
- ▶ Auto control of liquid amount to be supplied and the temperature in the bed is constant and no splash.
- ▶ Auto spraying of coating powder and the measure is accurate.
- ▶ The coating of powder, as the compact action of centrifugal force, it can treat low density material.
- ▶ The granulating (pellet), coating and drying can be finished in one body.
- ▶ The design and manufacture are conforming with GMP normal. It is quick and full to clean with no cross pollution.

技术参数 technical parameter

项目 Item	型号 Model	BZJ-360	BZJ-750	BZJ-1000	BZJ-1300
投料量 Capacity	Kg/batch	0.5~1.5	5~15	10~25	15~35
转子速度 Speed of rotor	Rpm	0~650	0~250	0~180	0~150
转子直径 Dia of rotor	mm	360	750	1000	1300
供粉装置电机功率 Power of motor	Kw	0.37	1.5	2.2	4
风机功率 Power of fan	Kw	1.5	3	5.5	7.5

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ZYLX 旋转挤出一滚圆机组

ZYLX rotary extrusion-spheronization pellets



应用 Application

主要应用于片剂、胶囊剂、颗粒剂、细粒剂、吸入剂等，中药颗粒，化药颗粒等。

Mainly used in tablets, capsules, granules, fine granules, inhalers, traditional Chinese medicine granules, chemical medicine granules, etc.

特点 Feature

旋转挤出机基于独特的低剪切技术，减少工时投入和温度上升，是热敏性产品的理想选择。有不同孔径的挤压网可供选择，可用于优化产品的粒径、表面质量和粒径分布。

滚圆机边缘光滑，紧密贴身的摩擦轮有助形成良好的球形颗粒和均匀的粒径分布，消除了传统工艺易产生细粉的问题。

The rotary extruder is based on unique low cut technology, reducing the input of labors and temperature rise, it is an ideal choice for heat sensitive products. There are different extrusion sieves available for selection, which can be used to optimize the pellets size, surface quality, and pellets size distribution of products.

技术参数 technical parameter

项目 Item	型号 Model	ZYLX-120	ZYLX-300	ZYLX-350
产量 Capacity	Kg/h	0.5~5	30~100	50~350
成丸直径 Dia of pellet	mm	0.2 ~ 3.5	0.2 ~ 3.5	0.2 ~ 3.5
装机功率 Power	Kw	3	10.7	18
转速 Speed of rotor	Rpm	0~100	0~100	0~80

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QWL 球形抛丸机

QWL centrifugal spheroidizing pellets



制粒
Granulation

概述 Summary

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 undertaken the action of air floating force in ring gap, rotating centrifugal strength and gravity itself, appear circle rope turning movement and become high deg ree ball shape pellet.



技术参数 technical parameter

项目 Item	型号 Model	QWL-230	QWL-400	QWL-550	QWL-700	QWL-1000	QWL-1300
功率 Power	Kw	0.75	2.2	3	3.7	5.5	7.5
生产能力 Capacity	Kg/h	0.5 ~ 4	5 ~ 8	10 ~ 50	40 ~ 80	70 ~ 200	100 ~ 300

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NTZS 固定提升真空上料整粒机

NTZS Fixed lifting vacuum feeding milling equipment



应用 Application

该机主要应用于制药工业固体物料的转送、加料。可与流化床制粒机、流化床干燥机配套使用，可将制粒后结团的颗粒通过真空输送的方式，根据工艺要求整理出均匀的合格颗粒。同时在制药、化工、食品等行业广泛使用。

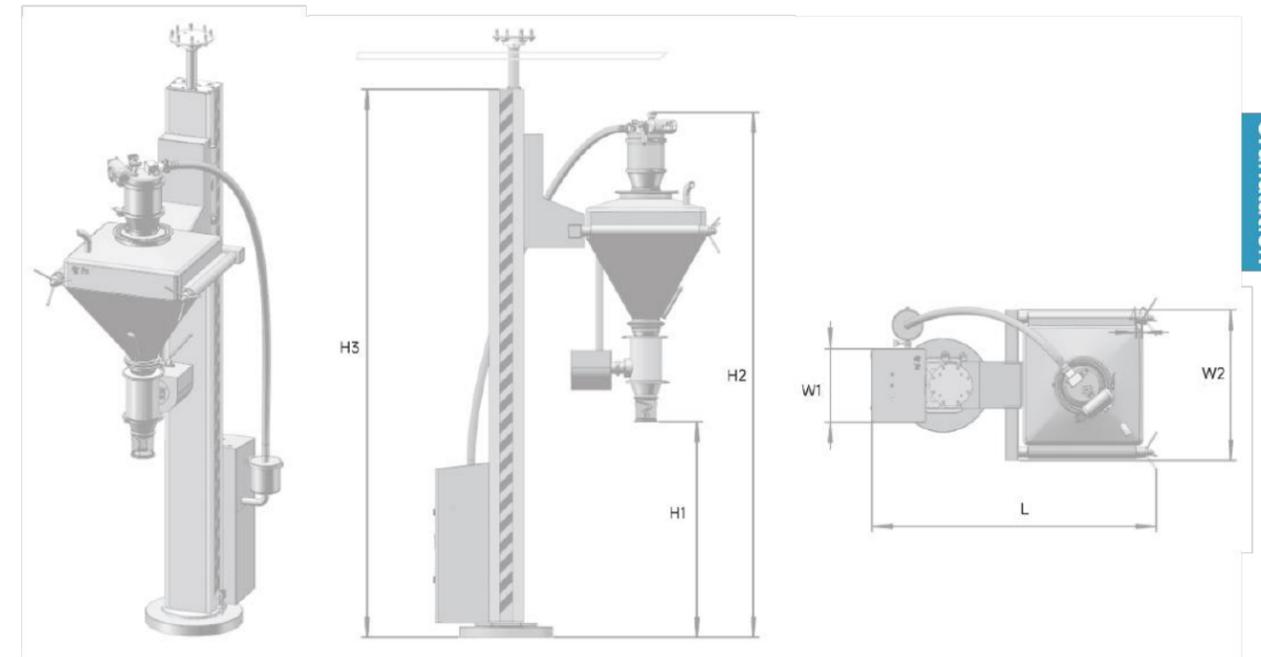
This machine is mainly used for the transfer and feeding of solid materials in the pharmaceutical industry. It can be used in conjunction with fluid bed granulators and fluid bed dryers. The agglomerated granules after granulation process could get uniform granules through by vacuum feeding and milling process. It is widely used in industries such as pharmaceuticals, chemicals, and food.

原理 Principle

该机主要由底盘、立柱、提升系统、真空输送系统、缓存料仓、整粒系统等组成。工作时启动真空输送机，通过真空的方式，将颗粒由流化床料仓吸到料仓中进入整粒机的腔体内，由腔体的整粒刀使颗粒过撞击、挤压、剪切后通过筛网孔排出腔体，经导流筒的出口流到道工序中的料仓或是离心振动筛中。

The machine mainly consists of a chassis, support frame, lifting system, vacuum feeding system, buffer hopper, and milling system. Start the vacuum feeding during operation, and through vacuum, the granules are sucked from the fluid bed material trolley into the chamber of the milling. In the chamber, after the granules get through striking, extruding and cutting process, then discharged by sieve of milling go to sieving or next process.

- R&D
- 制粒 GRANULATING
- 转序 CONVEYING
- 清洗 CLEANING
- 混合 MIXING
- 配料 DOSING
- 干燥 DRYING



制粒
Granulation

特点 Feature

该机结构合理，性能稳定，操作方便，整机无死角，无外露螺钉。该机设有防误操作装置的出料蝶阀，拆卸方便，易于清洗，确保生产安全。整粒机可升降到任意工艺高度，方便与下工序设备密封对接，能有效地控制粉尘与交叉污染，减少物料的损失，控制物料的分层，优化了生产工艺，完全符合药品生产的GMP要求。

The machine has a reasonable structure, stable performance, convenient operation, and no dead corners or exposed screws. The machine is equipped with a discharge butterfly valve with an anti misoperation device, which is easy to disassemble and clean to ensuring production safety. The whole granulator can be lifted to any processing height, making it tightly connect with the next process equipment. It can effectively control dust and cross contamination, reduce material loss, control material layering, optimize production processes, and fully comply with GMP requirements for drug production.

技术参数 technical parameter

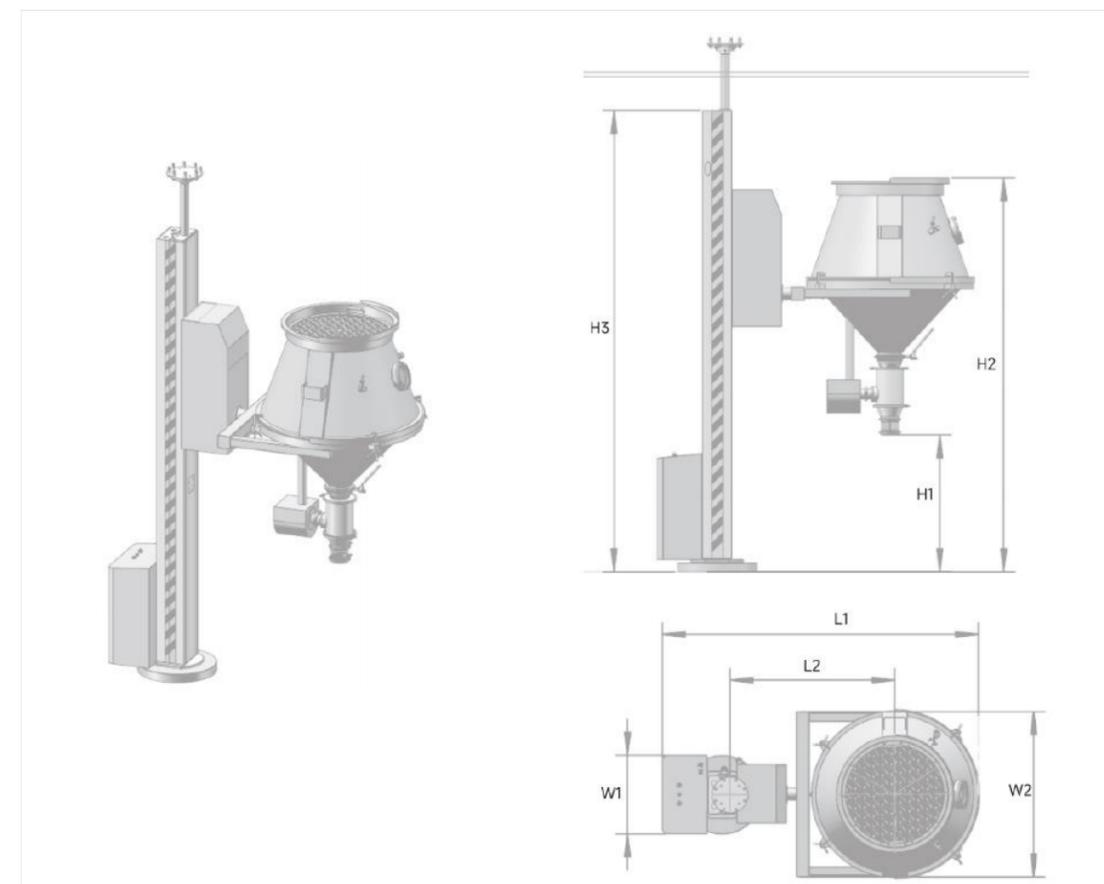
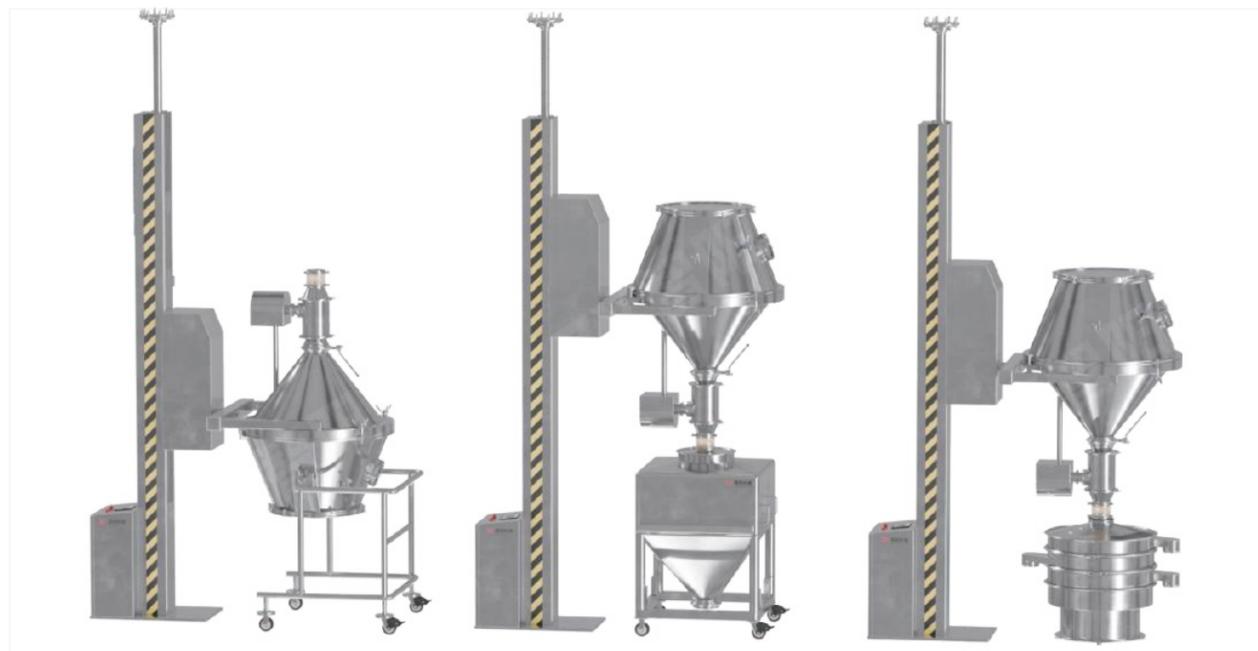
项目 Item	型号 Model	NTZS-150	NTZS-200	NTZS-300	NTZS-450	NTZS-750	
功率 Power	Kw	4.5	4.85	5.2	8.1	11.7	
生产能力 Capacity	Kg/batch	150	200	300	450	750	
主机尺寸 Size of installation for reference	L	mm	1650	1820	2400	2400	2400
	W1	mm	700	700	700	700	700
	W2	mm	850	850	900	900	900
	H1	mm	2000	2000	2000	2000	2000
	H2	mm	3870	4050	4200	4200	4200
	H3	mm	4000	4000	4400	4400	4400

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NTFZ 料仓提升转料整粒机

NTFZ pharma lifter for FBG/FBD Bowl

- R&D
- 制粒 GRANULATING
- 清洗 CLEANING
- 转序 CONVEYING
- 配料 DOSING
- 干燥 DRYING
- 混合 MIXING



Granulation 制粒

应用 Application

该机主要应用于制药工业固体物料的转送、加料。与流化床制粒机、流化床干燥机的料仓配套使用。同时在制药、化工、食品等行业广泛使用。

This machine is mainly used for the transfer and feeding of solid materials in the pharmaceutical industry. Used in conjunction with the trolley of fluid bed granulators and fluid bed dryers. It is widely used in industries such as pharmaceuticals, chemicals, and food.

特点 Feature

该机结构合理，性能稳定，操作方便，整机无死角，无外露螺钉。该机设有防误操作装置的出料蝶阀，拆卸方便，易于清洗，确保生产安全。整粒机可升降到任意工艺高度，方便与下工序设备密封对接，能有效地控制粉尘与交叉污染，减少物料的损失，控制物料的分层，优化了生产工艺，完全符合药品生产的GMP要求。

The machine has a reasonable structure, stable performance, convenient operation, and no dead corners or exposed screws. The machine is equipped with a discharge butterfly valve with an anti misoperation device, which is easy to disassemble and clean to ensuring production safety. The whole granulator can be lifted to any processing height,

making it tightly connect with the next process equipment. It can effectively control dust and cross contamination, reduce material loss, control material layering, optimize production processes, and fully comply with GMP requirements for drug production.

原理 Principle

该机由NTF固定提升转料机和GZL整粒机组成。工作时，将锥形料斗与流化床制粒机或流化床干燥机的料仓扣合。启动提升按钮，料仓提升；启动翻转按钮，料仓即可翻转180°。松开刹车，水平旋转立柱到工艺要求位置，再下降料仓到工作高度，开启整粒机打开蝶阀，使物料经过整粒后密闭转移到下一工序。

This machine consists of an NTF series pharma lifter for FBG/FBD Bowl and a GZL milling granulator. When its working, locked the conical hopper with the material trolley of the fluid bed granulator or fluid bed dryer. press "rise" button to raise the bowl, when it's raised in position, invert it 180°. Then release the brake and horizontal rotating to technology required position then lowering it to working position, turn on the butterfly valve of milling equipment, the material discharging to next process airtightly.

技术参数 technical parameter

项目 Item		型号 Model	NTFZ-200	NTFZ-300	NTFZ-500	NTFZ-800	NTFZ-1000
整粒机 Milling	产量 Production	Kg/批 Kg/batch	200	450	450	450	500
	功率 Power	Kw	1.1	2.2	2.2	3	4
提升机 Lifting	载重 Load	Kg	3~20	3~20	3~15	3~15	3~15
	功率 Power	Kw	1.1	1.5	2.2	3	3
主机尺寸 Size of installation for reference	L1	mm	2200	2440	2940	3170	3370
	L2	mm	1075	1200	1600	1730	1830
	W1	mm	700	700	700	700	700
	W2	mm	1080	1280	1480	1680	1880
	H1	mm	2000	2000	2000	2000	2000
	H2	mm	3550	3700	3950	4050	4400
H3	mm	3700	3800	4100	4200	4500	

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XL 旋转式颗粒机

XL revolving granulator

概述 Summary

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 tube sieve which is provided for pelletize in next process The machine can obtain different size granule by changing the stainless steel sieve.

It can process wet materials and get different sizes according to material and requirement.

技术参数 technical parameter

项目 Item	型号 Model	XL-120	XL-250	XL-300
筛孔直径 Diameter of sieve	mm	0.8 ~ 2.5	0.8 ~ 2.5	0.8 ~ 2.5
生产能力 Capacity	Kg/h	5~60	60 ~ 200	100 ~ 400
电机功率 Power of motor	Kw	1.5	4	5.5
外形尺寸 External dimensions	mm	740*350*1080	750*500*1230	880*630*1230

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XYZL 旋转挤压制粒机

XYZL rotating extrusion granulating machine

概述 Summary

将混合均匀的软材，在碾刀的挤压下，使物料强制通过筛网，并受到刮刀的切割进而得到长度均匀的柱形颗粒。

The equally mixed soft material are forced to pass the sieve under the extrusion force of grinding impeller. Then the uniformed length column grain. Will be obtained by the cutting force of outside scrape impellers.

特点 Feature

- ▶ 结构合理，外形美观。
- ▶ 尤其适合粘性物料。
- ▶ 颗粒长度均匀。
- ▶ 颗粒直径根据筛网孔径可调。
- ▶ Reasonable structure, nice appearance.
- ▶ Particularly suitable for viscous materials.
- ▶ Length of grains is uniform.
- ▶ The size of grain can be adjusted by changing the size of sieve.

技术参数 technical parameter

项目 Item	型号 Model	XYZL-250	XYZL-300	XYZL-500
筛网直径 Size of grinding knife	mm	250	300	500
孔径 Diameter of grains	mm	0.8 ~ 2.5	0.8 ~ 2.5	0.8 ~ 2.5
生产能力 Capacity	Kg/h	60 ~ 200	100 ~ 400	200 ~ 800
电机功率 Power of motor	Kw	3	5.5	18.5
外形尺寸 External dimensions	mm	1528*620*1160	1600*650*1200	1600*850*1500
设备重量 Weight	Kg	380	420	700

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YK 摇摆制粒机

YK oscillating granulator



制粒
Granulation



概述 Summary

摇摆制粒机是我厂参照国外同类机型并结合国内制药企业特点研制开发的新一代制粒、整粒设备。与国内普通摇摆颗粒机相比具有占地小、整机结构设计紧凑、简单、设备操作维修简单方便，易拆卸清洗，无死角等优点，符合GMP要求。本机主要由摆碾部分、机体部分、传动部分、旋紧装置等构成。

湿法制粒机传动部分。

结构紧凑，功率利用率高，传动力大。

推车式制粒机。

本机与GHL系列(高效湿法造粒机)和FL(PGL)系列(沸腾制粒干燥机)组成联合机组，形成管道化生产，减少二次污染，生产效率高。

Oscillating granulator is a new product developed by our factory with due reference to similar models produced abroad as well as careful consideration to the characteristics of domestic pharmaceutical enterprises. Compared with the pendulum convenient for operation and maintenance, easy for disassembly and cleaning, and free of blind corner, and complies with GMP requirements. This machine is mainly composed of pendular roller, main body, transmission system, and tightening device of sieve.

The Transmission Part.

Compact construction, high using ratio and drive force.

Trolley-type Granulator.

The machine is combined with GHL series (efficient hydro-granulator) and FLB (Fluidized dry granulator). All of them form the pipeline production, reducing the second pollution.

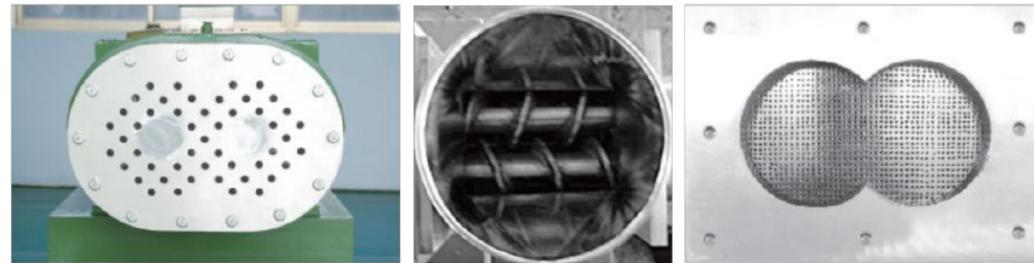
技术参数 technical parameter

项目 Item	型号 Model	YK-60	YK-160	YK-320
生产能力 Production capacity	Kg/h	25-50	50-200	200-500
功率 Power	Kw	1.1	4	11
摆碾部分 Pendulum roller	转速(左右旋) Speed(right and left rotating)	Rpm	60	60
	直径 Diameter	mm	60	160
	长度 Length	mm	184	356
	摆条 Pendulum rod	根 Radix	6	6
	摆动角度 Pendulum angle	度 Degree	360	360

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SET 螺杆挤压造粒机

SET screw extruding granulator



加料口
feeding hole

出料口
discharging hole

技术参数 technical parameter

项目 Item	型号 Model	SET-100	SET-140	SET-180
螺杆直径 Screw dia	mm	100	140	180
功率 Power	Kw	7.5	15	22
转速 Revolution	Rpm	11 ~ 110	11 ~ 110	11 ~ 110
外形尺寸 External dimensions	mm	2000*500*1000	1920*800*1430	3000*870*880
设备重量 Weight	Kg	810	810	810

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GZL 快速粉碎整粒机

GZL fast grinding granulating machine



制粒
Granulation

概述 Summary

干式、湿式颗粒均匀化、整粒。
团块物料的粉碎、整粒。
湿料制粒。
热敏性物料粉碎。
Dry and damp granule will be uniformity and finishing.
Crushing and finishing granule of mass materia.
Granulating for damp material.
Crush thermal sensitive material.

特点 Feature

- ▶ 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、湿润物料。
- ▶ When operation, it will less heat and the powder dust is less.
- ▶ The sieve of stator is made of stainless steel plate. It is not easy to damage.
- ▶ The gap between crushing blade and sieve can be adjusted.
- ▶ Can treat material that has adhesive property or is gum state or heat and damp.

技术参数 technical parameter

项目 Item	型号 Model	GZL-100	GZL-180	GZL-300
产量 Capacity	Kg/h	20-100	60-150	100-500
功率 Power	Kw	0.75	1.5	3
转速 Rotating speed	Rpm	180-1050	175-1000	200-900

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HTD 柱式料斗混合机

HTD post bin blender



概述 Summary

该机具有自动提升、混合、下降等功能。配一台料斗混合机及多个不同规格的混合料斗，就能满足多品种不同批量的混合要求，是药厂总混的理想设备。同时在制药、化工、食品等行业广泛使用。

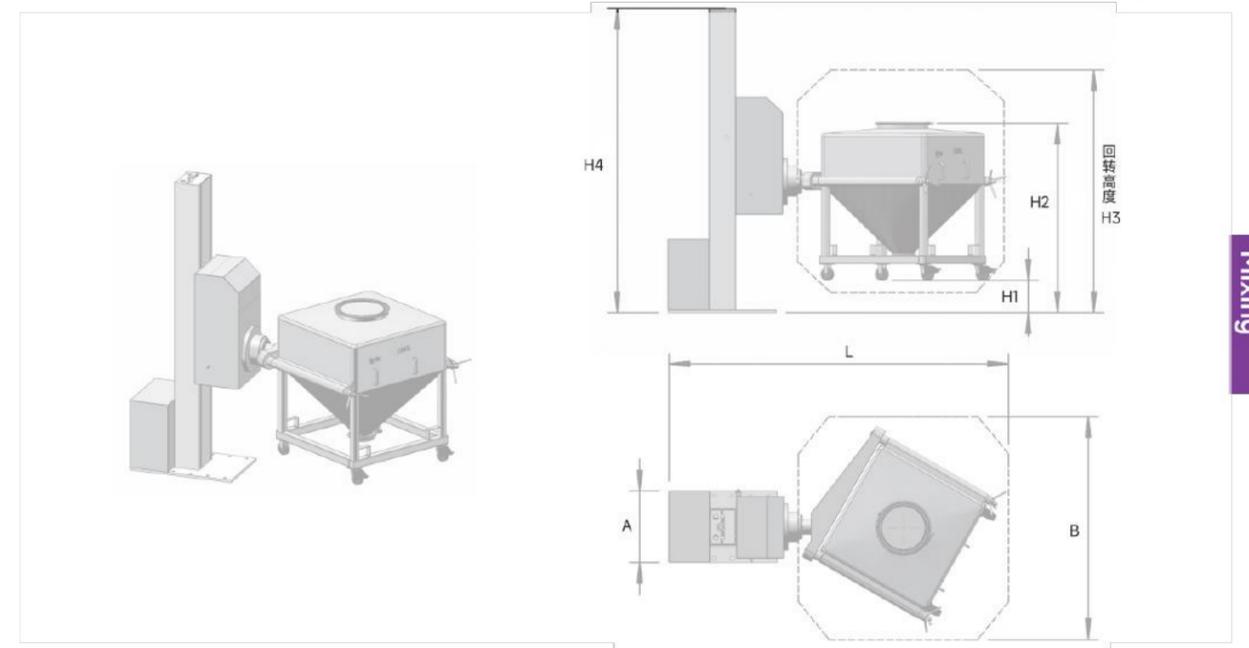
HTD Series Post bin blender is mainly used in blending of solid particle and dust powder materials in pharmaceutical industry. With features of being easy in loading and discharging and having good blending effects it is also widely used in food and chemical industries.

原理 Principle

该机由立柱、机座、回转叉架、驱动、制动、控制系统等部件组成。将混合料斗推入回转叉架并锁紧螺母，启动控制系统，将料斗提升到混合高度并可定位。驱动系统按设定的时间、转速等数据进行自动混合。混合作业结束，回转叉架垂直停止，料斗自动下降到地面，整机停止，并打印工艺数据。松开回转叉架的锁紧螺母，将料斗推出转到下一工序。

The machine is composed of machine base, upright, rotary fork, driving, braking, control system components. Mixed operation is finished, rotary fork vertical stop, hopper fall to the ground automatically, the machine stops, and print process data. Locking nut loosening the rotary fork, promotes the hopper to the next process. This machine is our widely absorbing, digesting foreign advanced technology, combined with the new type situation developed, after the mixing hopper can continue to ascend into the process requirements of high.

- R&D
- 制粒 GRANULATING
- 清洗 CLEANING
- 混合 MIXING
- 配料 DOSING
- 干燥 DRYING



特点 Feature

混合结束后料斗可继续提升到工艺要求高度，方便出料。整机结构合理，性能稳定，操作方便。无死角，无外露螺钉。回转体(混合料斗)与回转轴成30°夹角，混合料斗中的物料随回转体翻动外，同时沿斗壁做切向运动，产生强烈的翻转和高速的切向运动，从而达到最佳的混合效果。采用PLC全自动控制，并设置红外线安全装置及防误操作装置的出料蝶阀，确保生产安全。物料可在同一容器中通过不同的工序段，不需要频繁地转料、加料等程序。有效地控制粉尘与交叉污染，减少物料的损失，控制物料的分层，优化了生产工艺，完全符合药品生产的GMP要求。

It can be lifting the height of hopper for easy discharge after mixing is finished. The whole machine has a reasonable structure, stable performance, and easy operation. No dead corners, no exposed screws. The rotating body (mixing

hopper) forms a 30° angle with the rotating axis, and the materials in the mixing hopper flip outward with the rotating body, while performing tangential motion along the bucket wall, generating strong flipping and high-speed tangential motion, thereby achieving the best mixing effect. Adopting PLC fully automatic control and equipped with infrared safety devices and anti misoperation devices for discharge butterfly valves to ensure production safety. The material can be through different processing in one hopper without frequent transfer, feeding, and other procedures. Effectively controlling dust and cross contamination, reducing material loss, controlling material layering, optimizing production processes, and fully completed with GMP requirements for drug production.

技术参数 technical parameter

项目 Item	型号 Model	HTD-100	HTD-200	HTD-300	HTD-400	HTD-500	HTD-600	HTD-800	HTD-1000	HTD-1200	HTD-1300
总功率 Total power	Kw	2.2	2.6	3	3	4.4	4.4	5.2	6.5	7.8	10.5
混合速率 Hybrid speed	Rmp	3-20	3-20	3-20	3-15	3-15	3-15	3-15	3-15	3-15	3-15
净载荷 Net carrying	Kg	30	50	80	100	180	200	250	300	400	500
料斗容积 Hopper capacity	L	100	200	300	400	500	600	800	1000	1200	1300
主机尺寸 Size of installation for reference	A mm	600	600	600	600	700	700	700	800	800	800
	B mm	1160	1350	1420	1450	1550	1650	1750	1850	2020	2350
	L mm	2200	2250	1650	1850	1950	2080	2300	2350	2650	2800
	H1 mm	250	250	300	300	400	400	400	400	400	400
	H2 mm	1100	1230	1560	1690	1800	1870	1970	2050	2350	2680
	H3 mm	1190	1460	1630	1780	1880	2000	2150	2250	2650	2860
H4 mm	2000	2100	2200	2300	2400	2400	2400	2800	3000	3000	

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HZD 自动提升料斗混合机

HZD automatic bin blender



概述 Summary

该机能自动完成提升、夹持、混合、下降等全部动作。配一台自动提升料斗混合机及多个不同规格的混合料斗，就能满足大批量、多品种的混合要求，是药厂总混的理想设备。同时在制药、化工、食品等行业广泛使用。

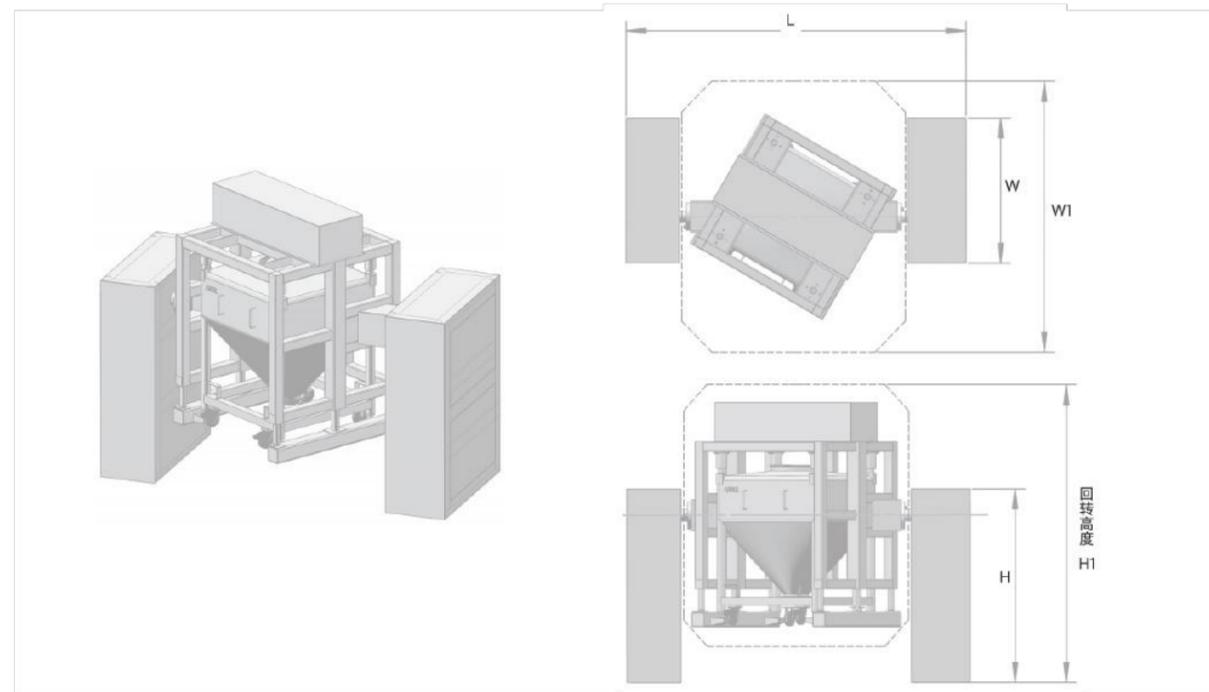
HD Series Container Blender is the most widely used mixing equipment for solid powder in international pharmaceutical industry having high uniformity and large loading capacity. The bin is very convenient for material loading, mixing discharging and cleaning. The bin is easily integrated with technical equipments back and forth and forms a stream line which effectively prevents cross contamination and powder dust caused by repeated feed transfer.

原理 Principle

该机由机座、回转体、驱动系统、提升系统、制动系统及控制系统组成。工作时，将混合料斗推到回转体内，按下触摸屏上“确认”键，就能自动将混合料斗提升到位，并自动夹紧。压力传感器得到夹紧信号后，驱动系统工作，按设定的时间、转速进行混合；达到设定的参数后，回转体就能自动垂直停止，同时制动系统工作，混合结束；然后提升系统工作，回转体内的混合料斗下降到位，自动停止，并打印工艺数据。将混合料斗推出转到下一工序。

This machine consists of stand, rotary body, lifting system, driving system, braking system and control system. When working, the mixing hopper to the rotary body, press the touch screen "confirmation" button, automatically mixing hopper promotion in place, and automatic clamping. When working, the mixing hopper to the rotary body, press the touch screen "confirmation" button, automatically mixing hopper promotion in place, and automatic clamping. The pressure sensor signal obtained after clamping, drive system, mixed according to the set time, speed; to set parameters, rotary body can automatic vertical stop, and braking system, mixed end; then the hoist system works, mixing hopper rotary body fall in place, automatic stop, and print process data. Will mix the hopper to launch to the next step.

- R&D
- 制粒 GRANULATING
- 清洗 CLEANING
- 转序 CONVEYING
- 配料 DOSING
- 混合 MIXING
- 干燥 DRYING



特点 Feature

该机结构合理，性能稳定，操作方便，整机无死角，无外露螺钉。回转体(混合料斗)与回转轴线成30°夹角，混合料斗中的物料随回转体翻动外，同时沿斗壁做切向运动，产生强烈的翻转和高速的切向运动，从而达到最佳的混合效果。采用PLC全自动控制，并设置红外线安全装置及防误操作装置的出料蝶阀，确保生产安全。物料可在同一容器中通过不同的工序段，不需要频繁地转料、加料等程序。有效地控制粉尘与交叉污染，减少物料的损失，控制物料的分层，优化了生产工艺，完全符合药品生产的GMP要求。

It can be lifting the height of hopper for easy discharge after mixing is finished. The whole machine has a reasonable structure, stable performance, and easy operation. No dead corners, no exposed screws. The rotating body (mixing

hopper) forms a 30° angle with the rotating axis, and the materials in the mixing hopper flip outward with the rotating body, while performing tangential motion along the bucket wall, generating strong flipping and high-speed tangential motion, thereby achieving the best mixing effect. Adopting PLC fully automatic control and equipped with infrared safety devices and anti misoperation devices for discharge butterfly valves to ensure production safety. The material can be through different processing in one hopper without frequent transfer, feeding, and other procedures. Effectively controlling dust and cross contamination, reducing material loss, controlling material layering, optimizing production processes, and fully completed with GMP requirements for drug production.

技术参数 technical parameter

项目 Item	型号 Model	HZD-400	HZD-600	HZD-800	HZD-1000	HZD-1200	HZD-1500	HZD-1800	HZD-2000
功率 Power	Kw	2.6	3.7	5.2	6.2	7.7	10.5	11.5	14
混合速率 Hybrid speed	Rmp	3~20	3~20	3~20	3~15	3~15	3~15	3~15	3~15
净载荷 Net carrying	Kg	120	200	250	300	400	500	600	800
料斗容积 Hopper capacity	L	400	600	800	1000	1200	1500	1800	2000
主机尺寸 Size of installation for reference	W	mm	1200	1300	1400	1400	1400	1600	1600
	W1	mm	2270	2400	2600	2760	2860	3040	3200
	L	mm	2650	2800	3000	2800	3300	3400	3560
	H	mm	1670	1670	1730	1760	1820	1930	1960
	H1	mm	2810	2770	2850	3150	3250	3450	3580

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HDD 单臂料仓自动提升混合机

HDD single-arm hopper mixer



概述 Summary

该机能自动完成提升、夹持、混合、下降等全部动作。配一台单臂提升料斗混合机及多个不同规格的混合料斗，就能满足大批量多品种的混合要求，是药厂总混的理想设备。同时在制药、化工食品等其它行业广泛使用。

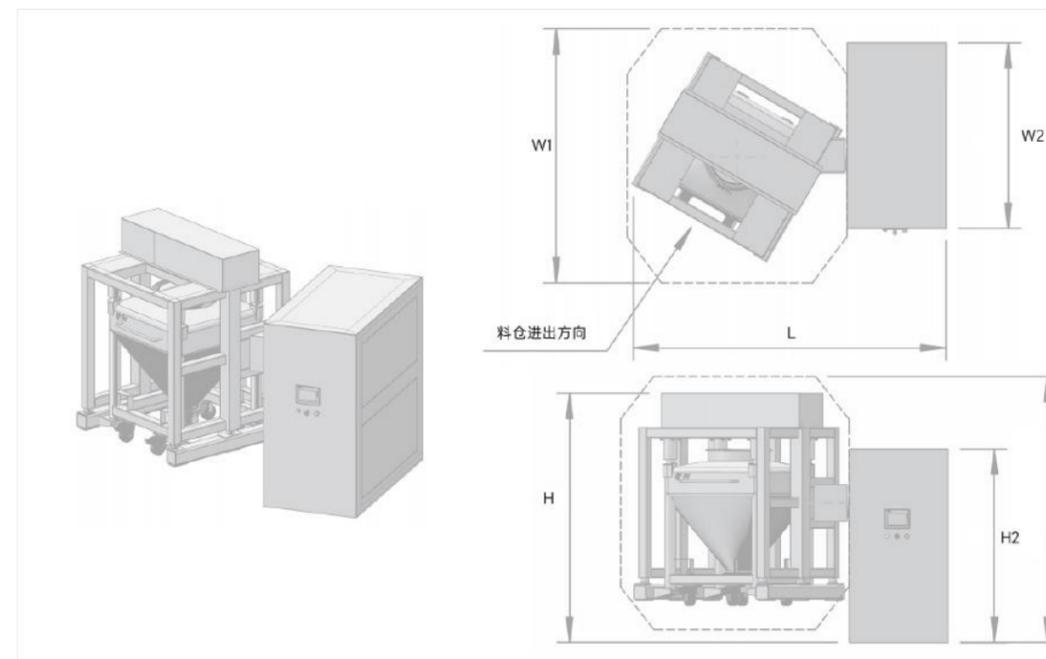
This machine is completed all actions such as lifting, clamping, mixing, and lowering automatically. Equipped with a single arm lifting hopper mixer and multiple mixing hoppers of different specifications, it can meet the mixing requirements of large quantities and varieties, it is an ideal mixer in pharmaceutical factories. It is widely used in other industries such as pharmaceuticals, chemical and food.

原理 Principle

该机由机座、回转体、驱动系统、提升系统、制动系统及控制系统组成。工作时，首先将混合料斗推到回转体内，按下触摸屏上“确认”键，就能自动将混合料斗提升到位，并自动夹紧。压力传感器得到夹紧信号后，驱动系统工作，按设定的时间、转速进行混合；达到设定的参数后，回转体就能自动垂直停止，同时制动系统工作，混合结束；然后提升系统工作，回转体内的混合料斗下降到位，自动停止，并打印工艺数据。将混合料斗推出转到下一工序。

The machine consists of a base, a rotating body, a driving system, a lifting system, a braking system, and a control system. When it working, push the mixing hopper into the rotating body firstly, press the "Confirm" button on the touch screen, and the mixing hopper will be automatic lift into position and clamped automatically. After receiving the clamping signal from the pressure sensor, the driving system operates and mixes according to the set time and speed; After reaching the set parameters, the rotary body can be automatic stop vertically, and the braking system will work at the same time. Then lifting system working, mixing hopper lowering on ground, stop automatically, printing technology data, pull out the hopper to next process.

- R&D
- 制粒 GRANULATING
- 清洗 CLEANING
- 转序 CONVEYING
- 配料 DOSING
- 干燥 DRYING
- 混合 MIXING



特点 Feature

该机结构合理，性能稳定，操作方便，整机无死角，无外露螺钉。回转体(混合料斗)与回转轴线成30°夹角，混合料斗中的物料随回转体翻动外，同时沿斗壁做切向运动，产生强烈的翻转和高速的切向运动，从而达到最佳的混合效果。采用PLC全自动控制，并设置红外线安全装置及防误操作装置的出料蝶阀，确保生产安全。物料可在同一容器中通过不同的工序段，不需要频繁地转料、加料等程序。有效地控制粉尘与交叉污染，减少物料的损失，控制物料的分层，优化了生产工艺，完全符合药品生产的GMP要求。

hopper) forms a 30 ° angle with the rotating axis, and the materials in the mixing hopper flip outward with the rotating body, while performing tangential motion along the bucket wall, generating strong flipping and high-speed tangential motion, thereby achieving the best mixing effect. Adopting PLC fully automatic control and equipped with infrared safety devices and anti misoperation devices for discharge butterfly valves to ensure production safety. The material can be through different processing in one hopper without frequent transfer, feeding, and other procedures. Effectively controlling dust and cross contamination, reducing material loss, controlling material layering, optimizing production processes, and fully completed with GMP requirements for drug production.

It can be lifting the height of hopper for easy discharge after mixing is finished. The whole machine has a reasonable structure, stable performance, and easy operation. No dead corners, no exposed screws. The rotating body (mixing

技术参数 technical parameter

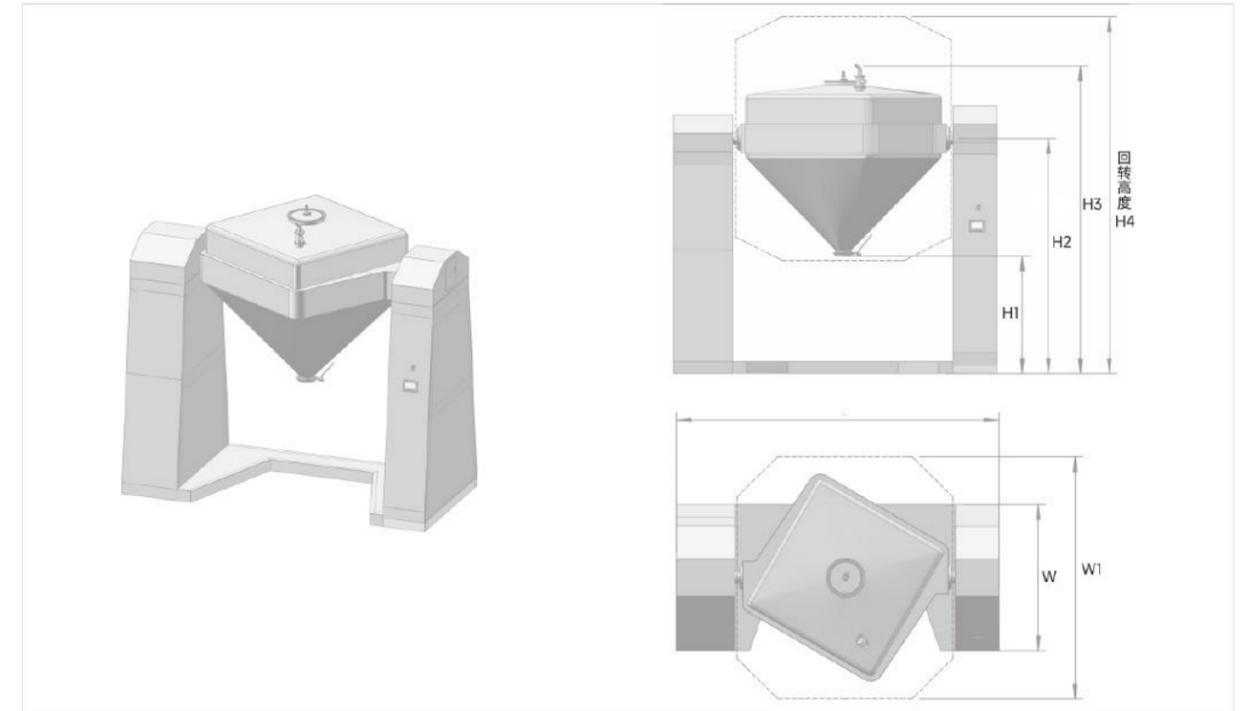
项目 Item	型号 Model	HDD-400	HDD-600	HDD-800	HDD-1000	HDD-1200	
功率 Power	Kw	5.5	7	7	7	7	
混合速率 Hybrid speed	Rmp	3-20	3-20	3-20	3-15	3-15	
净载荷 Net carrying	Kg	120	200	250	300	400	
料斗容积 Hopper capacity	L	400	600	800	1000	1200	
主机尺寸 Size of installation for reference	L	mm	2900	3180	3180	3450	3450
	W1	mm	2500	2600	2900	3000	3200
	W2	mm	1250	1250	1400	1400	1400
	H	mm	2200	2300	2400	2600	2800
	H1	mm	2600	2800	3000	3500	3750
	H2	mm	1800	1850	1950	2100	2100

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HGD 固定料斗混合机 (方锥混合机)

HGD fixed hopper mixer (squarecone mixer)

- R&D
- 制粒 GRANULATING
- 混合 MIXING
- 转序 CONVEYING
- 配料 DOSING
- 清洗 CLEANING
- 干燥 DRYING



Mixing
混合

特点 Feature

该机结构合理，性能稳定，操作方便，整机无死角，无外露螺钉。并设置防误操作装置的出料蝶阀，确保生产安全。回转体(混合料斗)与回转轴线成30°夹角，混合料斗中的物料随回转体翻动外，同时沿斗壁做切向运动，产生强烈的翻转和高速的切向运动，从而达到最佳的混合效果。优化了生产工艺，完全符合药品生产的GMP要求。

The whole machine has a reasonable structure, stable performance, and easy operation. No dead corners, no exposed screws. The rotating body (mixing hopper) forms a 30 ° angle with the rotating axis, and the materials in the mixing hopper flip outward with the rotating body, while performing tangential motion along the bucket wall, generating strong flipping and high-speed tangential motion, thereby achieving the best mixing effect. optimizing production processes, and fully completed with GMP requirements for drug production.

概述 Summary

该机主要用于制药工业固体制剂生产中的颗粒与颗粒、颗粒与粉末、粉末与粉末等物料的混合。具有混合批量大，受力可靠运行平稳等优点，是药厂总混的理想设备。同时在制药、化工、食品等行业广泛使用。

It can automatically complete ascension, clamping, mixed, drop all the action. Mixing hopper with a single arm lifting hopper mixer and a plurality of different specifications, can meet the mixed batch, multi varieties, is the ideal equipment for Pharmaceutical General mixed.

原理 Principle

本机由机座、驱动系统、控制系统、混合料斗等部件组成。工作时，将物料加入料斗后，锁紧斗盖，按工艺要求设定混合时间、混合速度，启动控制系统，即可开始混合作业；到设定的时间后，机器自动停止，混合结束后进行分料。

This machine consists of stand, rotary body, lifting system, driving system, braking system and control system. When working, the mixing hopper to the rotary body, press the touch screen "confirmation" button, automatically mixing hopper promotion in place, and automatic clamping. The pressure sensor signal obtained after clamping, drive system, mixed according to the set time, speed; to set parameters, rotary body can automatic vertical stop, and braking system, mixed end; then the hoist system works, mixing hopper rotary body fall in place, automatic stop, and print process data. Will mix the hopper to launch to the next step.

技术参数 technical parameter

项目 Item	型号 Model	HGD-200	HGD-300	HGD-400	HGD-600	HGD-800	HGD-1000	HGD-1200	HGD-1500	HGD-2000	HGD-2500	HGD-3000	HGD-4000	HGD-5000	HGD-6000	HGD-8000	HGD-10000	
功率 Power	Kw	1.5	1.5	1.5	2.2	3	4	4	4	5.5	5.5	7.5	7.5	11	11	15	15	
混合速率 Hybrid speed	Rmp	3-20	3-20	3-20	3-20	3-20	3-15	3-15	3-15	3-15	3-12	3-12	3-12	3-12	3-8	3-8	3-8	
净载荷 Net carrying	Kg	60	100	120	200	250	300	400	500	800	900	1000	1200	1500	2000	2500	3000	
料斗容积 Hopper capacity	L	200	300	400	600	800	1000	1200	1500	2000	2500	3000	4000	5000	6000	8000	10000	
主机尺寸 Size of installation for reference	W	mm	1000	1200	1200	1300	1400	1400	1400	1600	1700	1700	1700	2000	2100	2200	2200	
	W1	mm	1110	1470	1450	1450	1630	1800	1900	1950	2150	2300	2750	2970	3200	3260	3350	4500
	L	mm	1700	2000	2000	2280	2380	2600	2900	3000	3150	3300	3600	3800	4300	4400	4600	4860
	H1	mm	700	700	750	750	750	750	750	750	750	750	750	1000	1000	1000	1000	
	H2	mm	1270	1300	1460	1480	1550	1650	1720	1750	1820	1900	2130	2430	2560	2630	2650	2800
	H3	mm	1580	1860	1900	2000	2080	2200	2300	2300	2470	2600	2780	3250	3400	3600	3700	3950
H4	mm	1810	2170	2200	2200	2380	2550	2650	2700	2900	3050	3500	3720	4200	4260	4350	4600	

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LDT 周转混合料斗

LDT transfer bin



特点 Application

周转混合料斗在固体制剂生产流程中是主要的周转容器料斗混合机容器，物料可在同一容器中完成不同的用途，达到物料不转料、不加料等频繁的工序，有效地防止粉尘与交叉污染。完全符合药品生产的GMP的要求。

LDT transfer bin is mainly in the solid preparation production process, the material can be done for different purposes in the same container, reach the material not material, not feeding, frequent operation, effectively prevent dust and cross contamination. In full compliance with the requirements of the drug GMP production.

概述 Summary

周转混合料斗采用优质奥氏体不锈钢精制，内外表面所有转角均圆弧过渡，无死角、无残留。内表面经高度抛光，粗糙度达到 $Ra \leq 0.2\mu m$ ，外表面亚光处理，粗糙度达到 $Ra \leq 0.4\mu m$ 。斗盖设有硅橡胶密封装置，确保周转料斗的密封性；设计特制蝶阀，带有防误操作装置，确保生产安全。配有特制的车轮，保护洁净区自流坪地面不被损坏，不留痕迹。完全符合药品生产的GMP要求。

LDT transfer bin is made of high quality stainless steel refining, internal and external surface of all corners are arc transition, no dead angle, no residue. The inner surface of the highly polished, roughness can reach $Ra \leq 0.2\mu m$, outer surface polishing treatment, roughness can reach $Ra \leq 0.4\mu m$. The bucket cover is provided with a silicon rubber sealing device, to ensure the sealing performance turnover hopper; special valve design, with anti misoperation device, ensuring the safety in production. Equipped with special wheels, protect the clean area artesian Ping ground is not damaged, leaving no trace. In full compliance with the GMP requirement of pharmaceutical product.

技术参数 technical parameter

项目 Item	型号 Model	LDT-100	LDT-200	LDT-400	LDT-600	LDT-800	LDT-1000
容积 Volume	L	100	200	400	600	800	1000
壁厚 Wall thickness	mm	2	2	2.5	2.5	2.5	2.5
设备重量 Machine weight	Kg	120	120	120	165	190	250
主机尺寸 Size of installation for reference	A	600	700	800	900	1000	1000
	B	700	800	900	1000	1100	1200
	H	515	650	800	850	950	980
	H1	850	1020	1260	1340	1530	1620
	DN	150	150	200	200	200	200
	∅	400	400	500	500	500	500

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AH 气流混合机

AH airflow mixer



Mixing
混合

概述 Summary

AH型气流混机是专用于满足无菌粉的批混要求而设计的，其工作原理是采用气流的方式进行密闭混合，并采用全密闭结构的进出料方式，以达到无菌混合要求。

The AH type airflow mixer is designed specifically to meet the batch mixing requirements of sterile powder. Its working principle is to use airflow for closed mixing and a fully enclosed structure for feeding and discharging to meet the requirements of sterile mixing.

特点 Feature

- ▶ 具有高效密闭性的自吸式混合系统
- ▶ 与传统混合系统相比，混合时间减少，是一种高效混合机
- ▶ 可对有比重差异的各种粉末进行混合(1/10.000)
- ▶ 可在惰性条件下进行提作，仅消耗少量氮气
- ▶ 系统出料完成后，无需拆卸任何部件即可实现在线清洗和灭菌
- ▶ 无需中止混合程序，额外添加的少量元素能够被传输到循环的粉末中
- ▶ 在混合过程中人改变品的特性
- ▶ 固定安装后，能够从不同种类的容器内以密闭方式吸入粉末(料桶、料袋、料斗等)
- ▶ 粉末可以长距离传输

技术参数 technical parameter

项目 Item	型号 Model	AH-500	AH-1000	AH-2000	AH-3000
净载荷 Net carrying	Kg	300	600	1200	1800
料斗容积 Hopper capacity	L	500	1000	2000	3000
真空耗量 Vacuum consumption	m ³ /h	120	150	200	300
压缩空气耗量 Compressed air consumption	m ³ /h	1	2.5	3	4
外形尺寸 Outline dimension	mm	1200*1200*2700	1500*1500*3000	1800*1800*3500	2000*2000*4000
设备重量 Weight of the machine	kg	500	650	800	1100

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- ▶ A self-priming mixing system with high efficiency airtightness.
- ▶ Compared with traditional mixing systems, it reduces mixing time and is an efficient mixer.
- ▶ Can mix various powders with specific gravity differences (1/10.000).
- ▶ Can be extracted under inert conditions, consuming only a small amount of nitrogen.
- ▶ After the system discharge is completed, online cleaning and sterilization can be achieved without disassembling any components.
- ▶ No need to interrupt the mixing program, additional small amounts of elements can be transferred to the circulating powder.
- ▶ During the mixing process, It can be change the characteristics of the product.
- ▶ After fixed installation, powder can be sucked from different types of containers by sealed ways. (buckets, bags, hoppers, etc.)
- ▶ Powder can be transported over long distances.

HD 多向运动混合机

HD multi-direction movement mixer



特点 Feature

物料无离心力作用，无比重偏析及分层、积聚现象、混合率可达99.9%。

装料率大(最高可达80%，普通混合机仅为40%)、效率高、混合时间短。

筒体各处为圆弧过渡，经过精密抛光处理，达到GMP要求。

Materials without the centrifugal force, there is no centrifugal force acting on the materials, as well as no phenomena of gravity segregation lamination and accumulation of materials. So that the mixing rate can be up to 99.9%.

The barrel has high loading rate (max 80 percent, however, only 40 percent for the conventional mixers), so that it features high efficient and short mixing time. The barrel transitional radius everywhere conform to GMP.

技术参数 technical parameter

项目 Item	型号 Model	HD-1	HD-5	HD-15	HD-50	HD-100	HD-200	HD-400	HD-600	HD-800	HD-1000	
料桶容积 Barrel volume	L	1	5	15	50	100	200	400	600	800	1000	
最大料斗容积 Max loading volume	L	0.6	3	9	25	60	120	240	360	640	800	
最大装料重量 Max loading volume	Kg	0.36	1.8	5.5	15	35	70	150	200	400	600	
主轴转速 Speed of drivingshaft	r/min	15-30			8-15							
电机功率 Motor power	Kw	0.12	0.25	0.37	1.1	1.5	2.2	4	5.5	7.5	7.5	
外形尺寸 Outline dimension	mm	500X600 X600	600X1000 X1000	700X1000 X1000	1000X1400 X1200	1200X1700 X1500	1400X1800 X1600	1800X2100 X1950	1900X2100 X2250	2200X2400 X2300	2250X2600 X2300	
设备重量 Weight of the machine	Kg	50	150	200	300	500	800	1200	1500	2000	2500	

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ZKH V型混合机

ZKH V mixer



Mixing
混合

特点 Feature

该机通过机械传动，使不对称的V型圆柱体内的物料做往复翻动，达到均匀混合之目的。

The machine through mechanical transmission, the machine makes material in asymmetry V shape cylinders to turn over to-and-fro. The purpose of uniform can be got.

技术参数 technical parameter

项目 Item	型号 Model	ZKH-15	ZKH-30	ZKH-50	ZKH-150	ZKH-200	ZKH-400	ZKH-800	ZKH-1200	ZKH-1800	ZKH-2300
料桶容积 Barrel volume	L	15	30	50	150	200	400	800	1200	1800	2300
工作容积 Working volume	L	10	18	25	90	120	240	500	720	1000	1400
装料量 Loading	kg	5	10	15	50	70	150	280	430	650	800
主轴转速 Speed main shaft	rpm	25	25	22	20	18	15	14	13	11	8
电机功率 Power	Kw	0.25	0.4	0.55	0.75	1.5	3	5.5	5.5	7.5	7.5
回转高度 Height of	mm	300	900	1300	1650	1840	2030	2490	2850	3200	4600

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EYH 二维运动混合机

EYH type two dimensional movement mixer



概述 Summary

本机广泛用于医药，化工，食品，染料，饲料，化肥，农药等行业，尤其适用于大吨位（1000、10000L）各种固相物料的混合。

本机混合筒在传动的同时又参与摆动，使筒中物料得以充分混合，混合筒的出料带有螺旋叶片，使该机具有混合迅速，混合量大，出料便捷等特点。

The mixers are widely used in pharmaceutical, chemical, food, dye, feed, chemical fertilize and pesticide industries and especially suitable for mixing various solid materials with large volume (1 000 1 0000L).

The mixing barrel swings while rotates so that the materials in the barrel can be fully mixed. Because the discharge port of the barrel is out of the barrel centerline, the mixer features quick mixing and discharging as high volume mixing capacity.

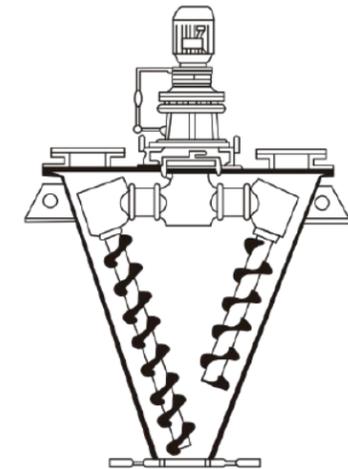
技术参数 technical parameter

项目 Item	型号 Model	EHY-10	EHY-30	EHY-60	EHY-150	EHY-300	EHY-600	EHY-800	EHY-1000	EHY-1500	EHY-2000	EHY-3000	EHY-4000	EHY-6000	EHY-8000	EHY-10000
料桶容积 Barrel volume	L	10	30	60	150	300	600	800	1000	1500	2000	3000	4000	6000	8000	10000
装料容积 Loading capacity	L	5	15	30	75	150	300	400	500	750	1000	1500	2000	3000	4000	5000
最大装料量 Max loading weight	kg/批	2.5	7.5	15	37.5	75	150	200	250	375	500	750	1000	1500	2000	2500
电机总功率 Total motor power	Kw	0.021	0.19	0.4	1.15	1.15	3	3	3	4.4	7.4	11	13	18.5	22	30

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WH 双螺旋锥形混合机

WH double-screw conical mixer



概述 Summary

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 risid 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.

运用 Application

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).

技术参数 technical parameter

项目 Item	型号 Model	WH-0.1	WH-0.3	WH-0.5	WH-1.0	WH-1.5	WH-2.0	WH-3.0	WH-4.0	WH-5.0	WH-6.0	WH-8.0	WH-10	WH-15	WH-20	WH-25	WH-30
功率 Power	Kw	0.1	0.3	0.5	1.0	1.5	2.0	3.0	4.0	5.0	6.0	8.0	10	15	20	25	30
装载系数 Load factor		≤0.6															
装机功率 Equip power	Kw	1.5	2.2	3	4	5.5	5.5	7.5	11	15	15	18.5	22	30	37	37	52.5
操作条件 Operating conditions		常温常压粉尘密封 Dust sealing at normal temperature and pressure															
主机尺寸 Size of installation for reference	mm	1569*702	1929*920	2322*1124	2869*1480	3140*1633	3489*1816	3747*2210	3462*2280	4576*2402	4900*2582	5405*2805	5795*3018	6475*3450	7535*3805	7995*4078	8385*4330
设备重量 Weight of the machine	Kg	250	550	660	1200	1350	1500	2300	2520	3000	3150	4500	5500	6600	7000	8500	9200

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Mixing 混合

LH 高速混合机

LH High Speed Mixer



原理 Principle

LH 高速混合机由底部送料叶浆和高速碎料叶浆组成。送料叶浆将底部物料连续不断沿筒壁向上送料，高速碎料叶浆将料叶浆送来的物料彻底打碎。使物料循环形成旋涡状，在较短时间内达到将物料混合均匀的目的。

LH high speed mixer by feeding at the bottom of the blade and the broken material of blade. Feeding material at the bottom of the blade will be continuous along the wall up feed, the broken material blade materials from blade will be completely broken. Make material circulation swirl formation, in a relatively short time to achieve the goal of mix material evenly.

应用 Application

LH 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。

LH high speed mixer 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 drivina medium life.

特点 Feature

- ▶ LH高速混合机是我公司集国内外先进技术，最新研制的高效混合机，它的主要特点有下列几种。
- ▶ 由于离心力的作用，底部送料叶浆将底部物料沿筒壁连续不断向上送料，上部物料由中心向下回落，使物料循环形成旋涡状，高速碎料叶浆将送料叶浆送来的块状物料彻底打碎。
- ▶ 由于上述二种叶浆的高速旋转，所以能使物料在较短时间内达到混合均匀的目的，其混合速度和均匀度是国内各种混合机无法达到的，混合后的物料中间无颗粒状，混合均匀度达百分之百。

技术参数 technical parameter

项目 Item	型号 Model	LH-200	LH-300	LH-400	LH-500	LH-600	LH-1000
容积 Container Volume	L	200	300	400	500	600	1000
投料量 Capacity	Kg/batch	80	100	200	230	280	350
混合功率 Mixing power	Kw	7.5	7.5	15	18.5	22	30
切割功率 Cutting power	Kw	1.5	2.2	2.2	3	3	4

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CH 槽型混合机

CH groove mixer



概述 Summary

本机是通过机械传动，使搅拌桨旋转，推动物料往复翻动。均匀混合，同时加入粘合剂制成适合下道工序使用的湿材。制湿材也可选用GHL高速混合制粒机。

By machinery transmission, the machine makes stirring car rotate, promote material flip back and forth, after even mixing, add the binder, then made into the damp material which conforms next process.

We can also choose GHL high-speed granulator for wet material.

技术参数 technical parameter

项目 Item	型号 Model	CH-100	CH-150	CH-200	CH-400	CH-600
工作容积 Working volume	L	100	150	200	400	600
电机功率 Motor power	Kw	2.2	3	4	5.5	11
搅拌速度 Stirring rotating speed	r/min	24				
倒料角度 Feeding angle	度	105				
重量 Weight	Kg	400	500	600	700	900
外形尺寸 External dimensions	长宽高 L*W*H mm	1400*580*1000	1600*600*1050	1870*650*1065	2400*750*1100	2600*800*1200

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Mixing
混合

NTF 固定提升转料机

NTF pharma lifter, for FBG/FBD bowl



概述 Summary

该机主要应用于制药工业固体物料的转送、加料。可与沸腾制粒机、沸腾干燥机、整粒机配套使用。同时在制药、化工、食品等行业中广泛使用。

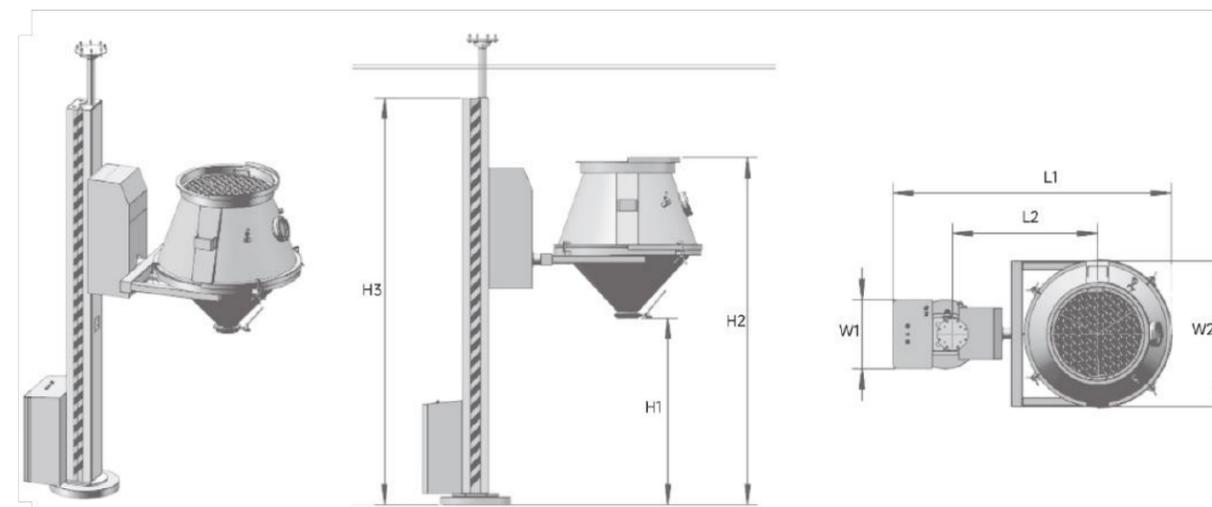
This equipment is mainly used in the solid dosage production procedure for transferring and discharging materials, consequently it is operated with corollary equipments such as FBG or FBD Bowls, Pharma Lifters, for FBG/FBD Bowl are widely used in pharmaceutical, chemical, foodstuff industries, etc.

原理 Principle

该机主要由底盘、立柱、提升系统、翻转系统等组成。工作时将锥形料斗与沸腾制粒机或沸腾干燥机的料仓扣合。启动提升按钮，料仓提升；启动翻转按钮，料仓即可翻转180°。松开刹车，水平旋转立柱到工艺要求位置，再下降料仓到工作高度，打开蝶阀，使物料转移到下一工序。

This equipment is composed of chassis, column, lifting system and bowl inversion system. When operating; firstly, lock the FBG/FBD Bowl with the cone adapter, and then press "Raise" button to raise the bowl. When it's raised in position, invert it 180°. Then release the brake and slew the column to swivel the bowl to the process required position. Lower the bowl to the working height and open the butterfly valve to discharge the materials into the next processing equipment.

- R&D
- 制粒 GRANULATING
- 清洗 CLEANING
- 混合 MIXING
- 转序 CONVEYING
- 配料 DOSING
- 干燥 DRYING



转序
Product handling

特点 Feature

该机是我司广泛吸收、消化国外先进技术，结合国情研发成功的新机型。结构合理，性能稳定，操作方便，整机无死角，无外露螺钉。该机设有防误操作装置的出料蝶阀，拆卸方便，易于清洗，确保生产安全。整粒机可随锥斗升降到任意工艺高度，方便与下一工序设备密闭对接，有效地控制粉尘与交叉污染，优化了生产工艺，完全符合药品生产的GMP要求。

This equipment is successfully designed on the basis of a wide research, absorption and digestion of foreign advanced models. It has a reasonable structure with stable performances and easy operation; the whole machine has no dead angle or exposed screws. To ensure a safe production, it is also designed with a device avoiding misoperation of the butterfly valve which is easy to dismantle and wash. Moreover, the cone mill is lifted and lowered to any process heights, so it can be hermetically connected to the next processing equipment. Consequently, powder dust or cross pollution are effectively controlled to optimize the production process, comply entirely with GMP requirements for medicine production.

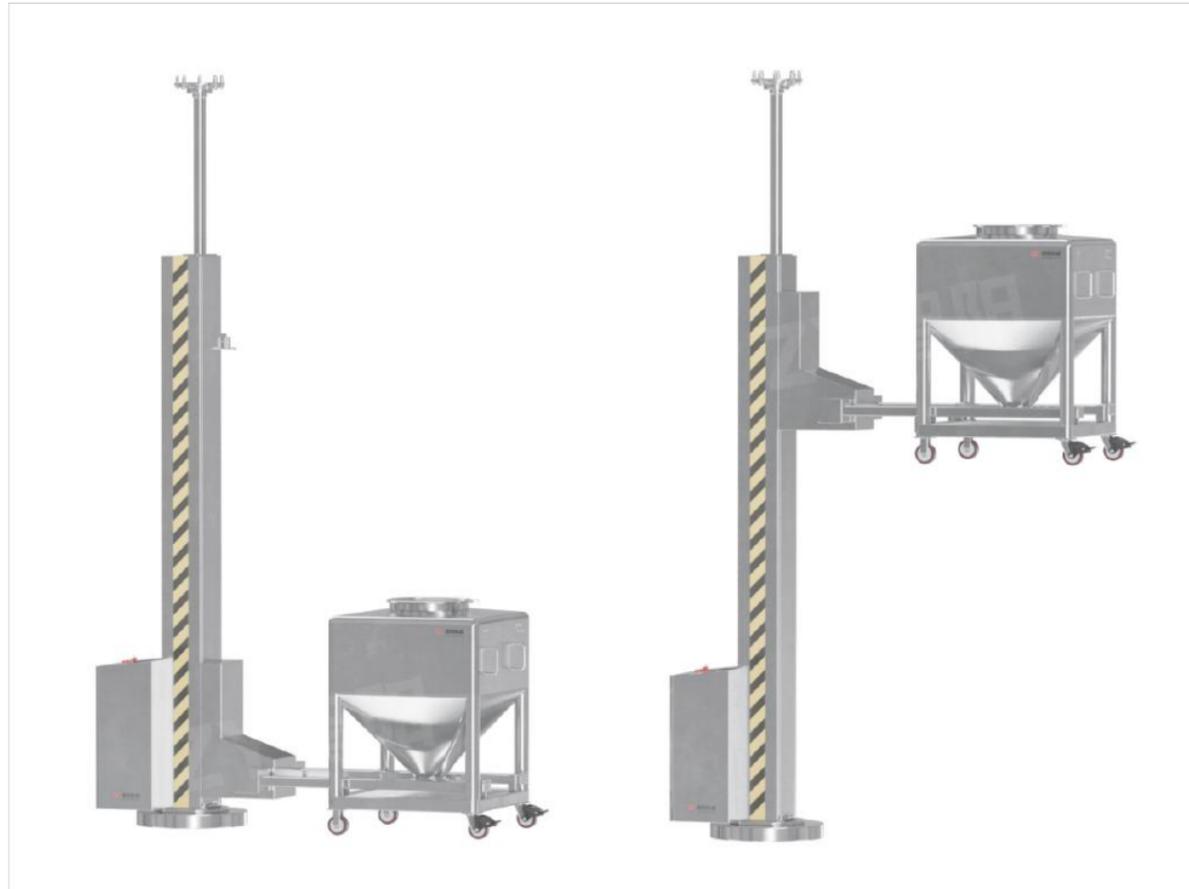
技术参数 technical parameter

项目 Item	型号 Model	NTF-200	NTF-300	NTF-500	NTF-800	NTF-1000	
功率 Power	Kw	1.3	1.65	2.75	2.75	2.55	
主机尺寸 Size of installation for reference	L1	mm	2200	2440	2940	3170	3370
	L2	mm	1075	1200	1600	1730	1830
	W1	mm	700	700	700	700	700
	W2	mm	1080	1280	1480	1680	1880
	H1	mm	2000	2000	2000	2000	2000
	H2	mm	3550	3700	3950	4050	4400
	H3	mm	3700	3800	4100	4200	4500

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NTD 料斗提升加料机

NTD pharma lifter, for bin



运用 Application

该机主要应用于制药工业固体物料的输送、加料。可与混合机、压片机、胶囊填充机等设备配套使用。同时在制药、化工、食品等行业中广泛使用。

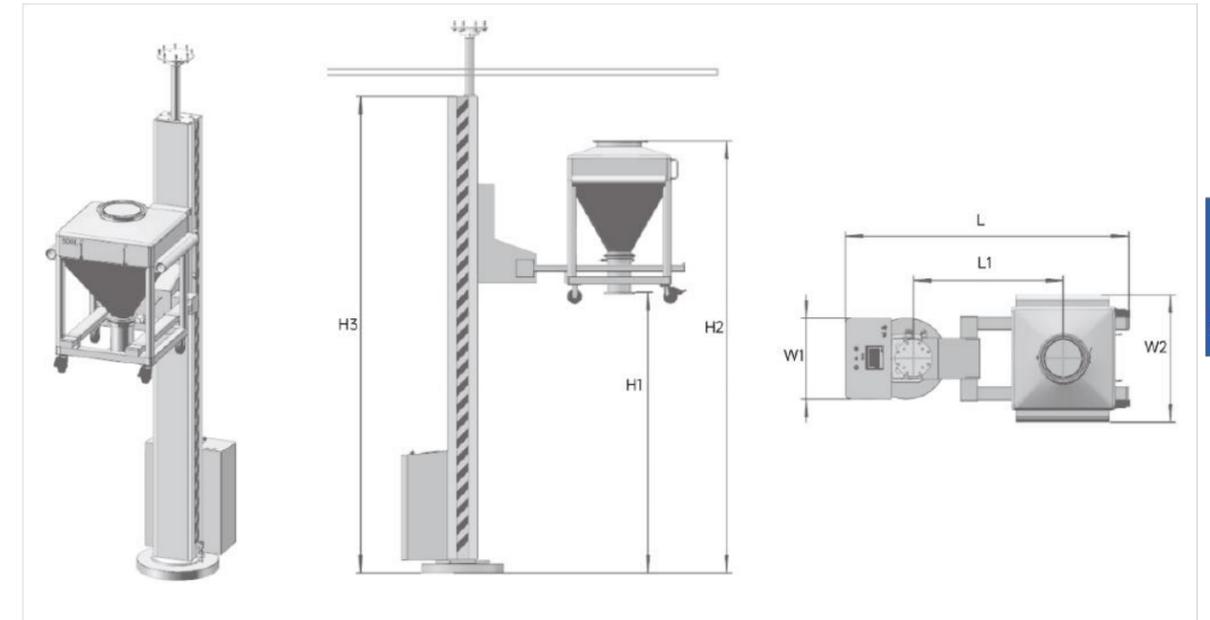
The machine is mainly used for conveying and charging solid materials in the pharmaceutical industry. It can work with the mixer, tablet press, capsule filler, etc. It is also widely used in such industries as medicine, chemical industry, food, etc.

原理 Principle

该机主要由底盘、立柱、提升系统等部件组成。工作时，先将装有物料的料斗推入料斗提升机的提升叉架上，然后启动提升按钮，料斗做提升运动，料斗到位后转动底盘与加料的设备密封对接，开启出料蝶阀，使物料密封转移到下一工序。

The machine is mainly composed of chassis, pillars, lifting system and other components. When working, first push the hopper containing materials into the lifting fork of the hopper elevator, then activate the lifting button, and the hopper will perform lifting movement. After the hopper is in place, rotate the chassis to tightly connect with the feeding equipment, open the discharge butterfly valve, and transfer the materials to the next process in a sealed manner.

- R&D
- 制粒 GRANULATING
- 清洗 CLEANING
- 混合 MIXING
- 转序 CONVEYING
- 配料 DOSING
- 干燥 DRYING



Product handling 转序

特点 Feature

- ▶ 机体外壳用奥氏不锈钢制造，无死角、无凹凸、光洁易清洗。
- ▶ 料斗采用优质奥氏体不锈钢SUS304或SUS316L精制加工，内壁表面粗糙度(R<0.2μm)，特制出料蝶阀，无死角、无残留、易清洗。
- ▶ 与下工序设备可用特制的软管连接，或按需要配置自动放料阀。
- ▶ 可提升不同规格的料斗。

- ▶ The body shell is made of austenitic stainless steel, no dead angle, no bump, smooth and easy to clean.
- ▶ The hopper is made of high-quality austenitic stainless steel SUS304 or SUS316L. The surface roughness of the inner wall (Rs0.2 μm), special butterfly valve, no dead angle, no residue, easy to clean.
- ▶ The special process hose can be connected with the lower process equipment, or the automatic discharge valve can be configured as needed.
- ▶ The hopper can be upgraded in different specifications.

技术参数 technical parameter

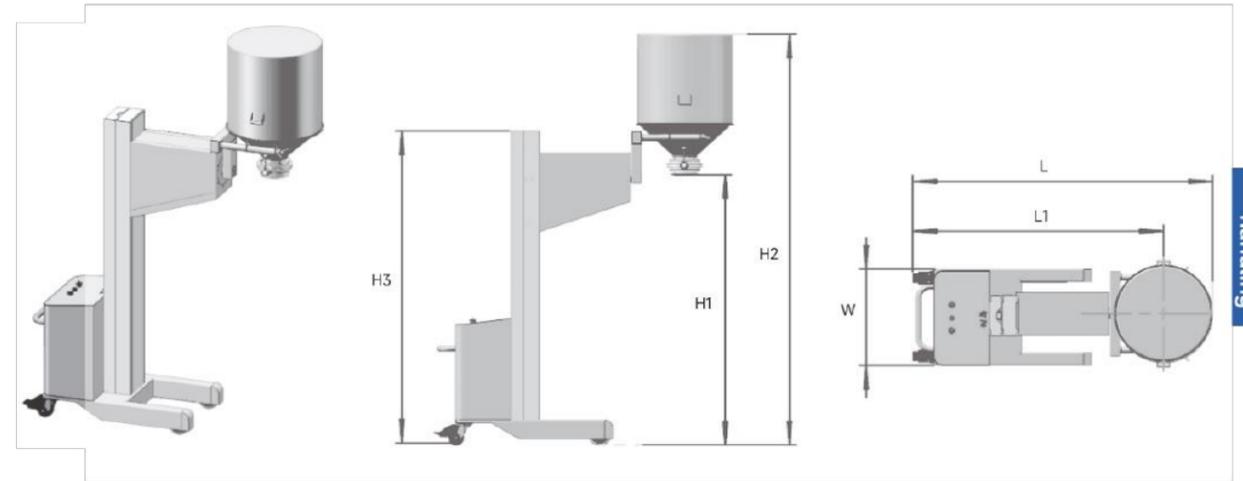
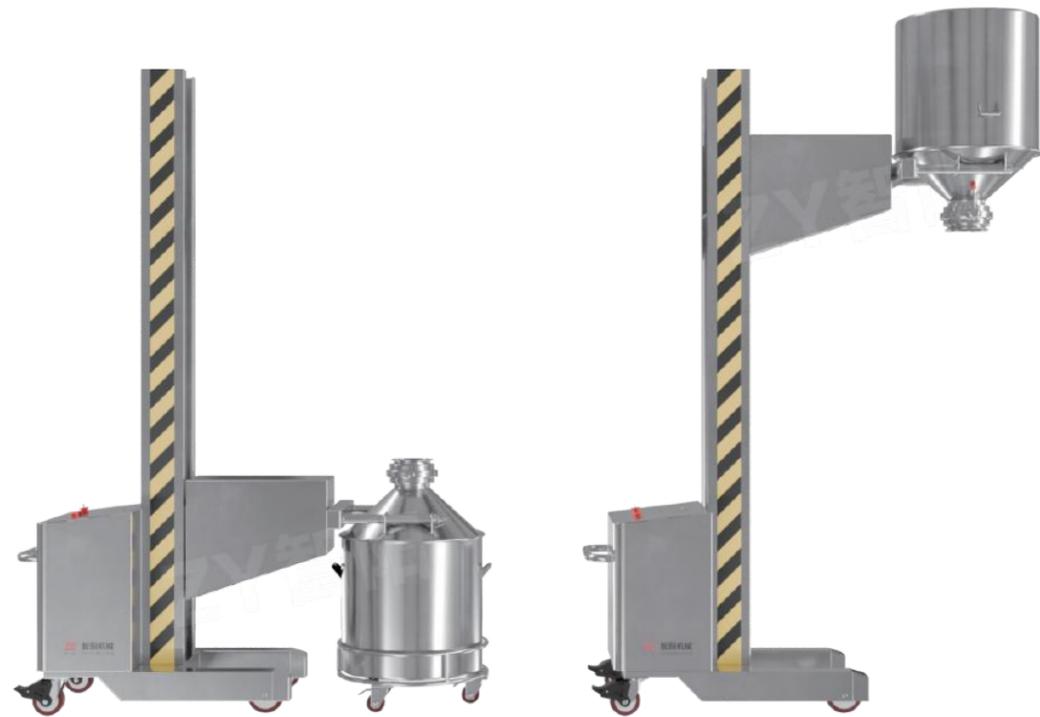
项目 Item	型号 Model	NTD-200	NTD-400	NTD-600	NTD-800	NTD-1000	NTD-1200	NTD-1500	NTD-2000	
总功率 Total power	Kw	1.1	2.2	2.2	2.2	3	3	3	3	
主机尺寸 Size of installation for reference	L	mm	1900	1950	2050	2200	2380	2380	2480	2480
	L1	mm	850	950	950	1000	1100	1200	1200	1200
	W1	mm	700	700	700	700	700	700	700	700
	W2	mm	700	800	1000	1000	1100	1200	1200	1200
	H1	mm	2200	2200	2200	2200	2200	2200	2200	2200
	H2	mm	3050	3340	3350	3550	3560	3830	4035	4230
H3	mm	3020	3400	3400	3500	3500	3800	4000	4200	

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NTY 移动提升加料机

NTY pharma lifter, moveable

- R&D
- 制粒 GRANULATING
- 混合 MIXING
- 转序 CONVEYING
- 配料 DOSING
- 清洗 CLEANING
- 干燥 DRYING



转序
Product handling

概述 Summary

该机主要应用于制药工业固体物料的转送、加料。可与混合机、整粒机、压片机、包衣机、胶囊充填机等设备配套使用。同时在制药、化工、食品等行业中广泛使用。

This machine is mainly used for the transfer and feeding of solid materials in the pharmaceutical industry. It can be used in conjunction with mixing machines, granulators, tablet presses, coating machines, capsule filling machines, and other equipment. It is widely used in industries such as pharmaceuticals, chemicals, and food.

原理 Principle

该机主要由底盘小车、提升系统、翻转系统等组成。工作时，先将锥斗与料桶扣合，然后启动提升按钮，料桶提升；启动翻转按钮，料桶即可翻转180°。移动底盘小车与加料的设备密闭对接，开启出料蝶阀，使物料密闭转移到下一工序。

This machine is mainly composed of a chassis car, lifting system, turning system. When working, the cone bucket and bucket buckle, and then start the lift button, bucket lifting; turn button, barrel can turn 180 degrees. Mobile chassis vehicle and charging equipment closed butt, open the discharge valve, so that the material closed transfer to the next process.

特点 Feature

该机是我司广泛吸收、消化国外先进技术，结合国情研发成功的新机型。结构合理，性能稳定，操作方便，整机无死角，无外露螺钉。该机设有防误操作装置的出料蝶阀，拆卸方便，易于清洗，确保生产安全。整料机可随锥斗升降到任意工艺高度，方便与下一工序设备密闭对接，有效地控制粉尘与交叉污染，优化了生产工艺，完全符合药品生产的GMP要求。

This equipment is successfully designed on the basis of a wide research, absorption and digestion of foreign advanced models. It has a reasonable structure with stable performances and easy operation; the whole machine has no dead angle or exposed screws. To ensure a safe production, it is also designed with a device avoiding misoperation of the butterfly valve which is easy to dismantle and wash. Moreover, the cone mill is lifted and lowered to any process heights, so it can be hermetically connected to the next processing equipment. Consequently, powder dust or cross pollution are effectively controlled to optimize the production process, comply entirely with GMP requirements for medicine production.

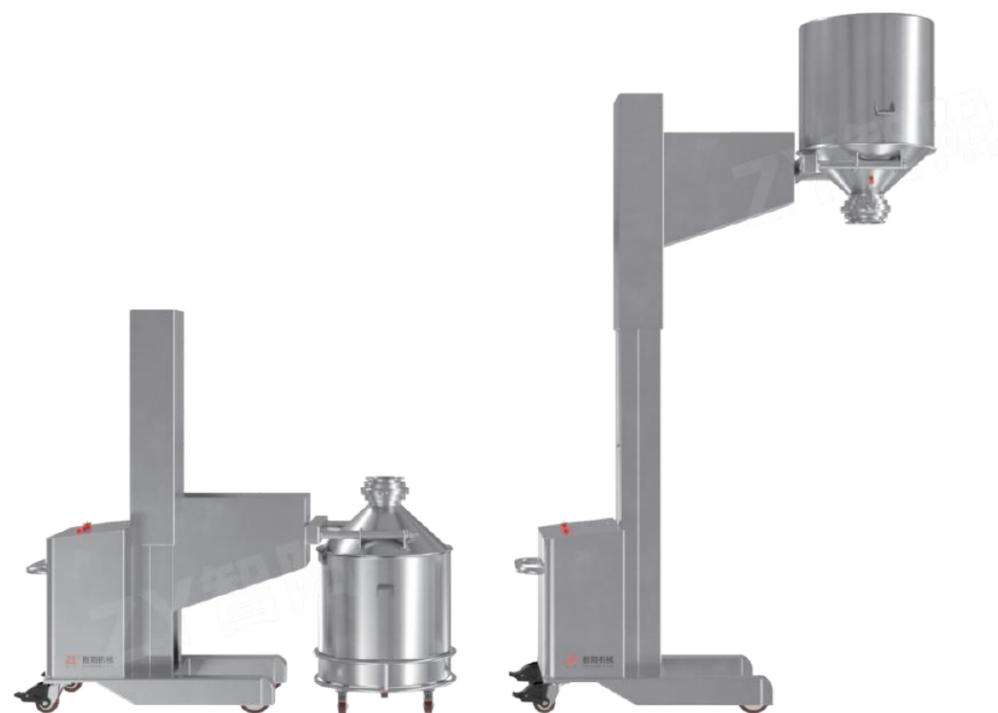
技术参数 technical parameter

项目 Item	型号 Model	NTY-100	NTY-150	NTY-200
总功率 Total power	Kw	1.87	1.87	1.87
主机尺寸 Size of installation for reference	L	1860	1910	1910
	L1	1600	1600	1600
	W	600	600	600
	H1	1800	1800	1800
	H2	2680	2880	2950
	H3	1950	1950	1950
	H4	3450	3450	3450

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NTS 移动伸缩提升加料机

NTS pharma lifter, telescopic and movable



概述 Summary

该机主要应用于制药工业固体物料的转送、加料。可与混合机、整粒机、压片机、包衣机、胶囊充填机等设备配套使用。同时在制药、化工、食品等行业中广泛使用。

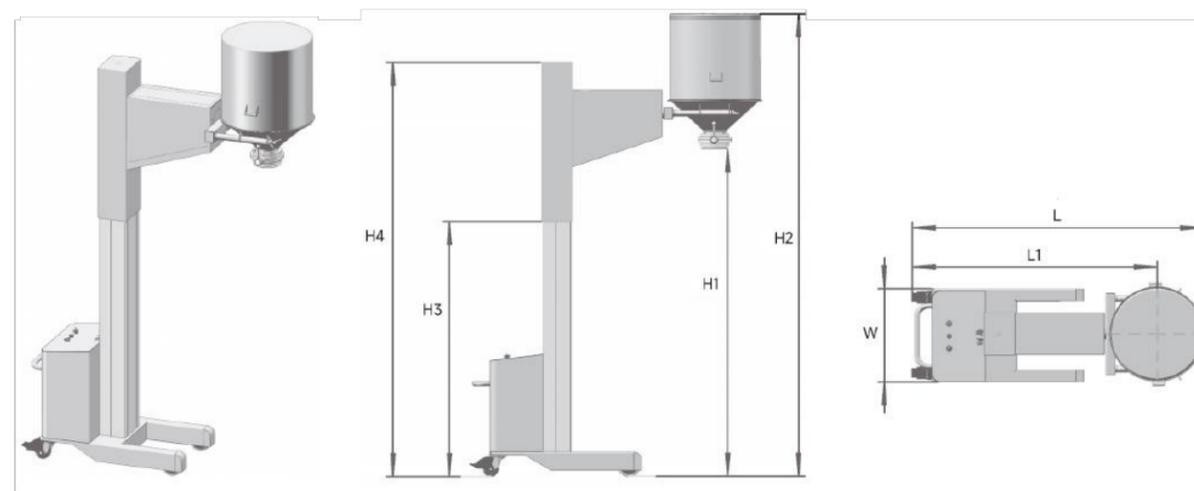
This machine is mainly used for the transfer and feeding of solid materials in the pharmaceutical industry. It can be used in conjunction with mixing machines, granulators, tablet presses, coating machines, capsule filling machines, and other equipment. It is widely used in industries such as pharmaceuticals, chemicals, and food.

原理 Principle

该机主要由底盘小车、伸缩系统、提升系统、翻转系统等组成。工作时，先将锥斗与料桶扣合，然后启动提升按钮，料桶提升；启动翻转按钮，料桶即可翻转180°。移动底盘小车与加料的设备密闭对接，开启出料蝶阀，使物料密闭转移到下一工序。

This machine is mainly composed of a chassis vehicle, telescopic system, lifting system, turning system. When working, the cone bucket and bucket buckle, and then start the lift button, bucket lifting; turn button, barrel can turn 180 degrees. Mobile chassis vehicle and charging equipment closed butt, open the discharge valve, so that the material closed transfer to the next process.

- R&D
- 转序 CONVEYING
- 清洗 CLEANING
- 制粒 GRANULATING
- 配料 DOSING
- 干燥 DRYING
- 混合 MIXING



转序
Product handling

特点 Feature

该机是我司广泛吸收、消化国外先进技术，结合国情研发成功的新机型。结构合理，性能稳定，操作方便，整机无死角，无外露螺钉。该机设有防误操作装置的出料蝶阀，拆卸方便，易于清洗，确保生产安全。整粒机可随锥斗升降到任意工艺高度，方便与下一工序设备密闭对接，有效地控制粉尘与交叉污染，优化了生产工艺，完全符合药品生产的GMP要求。

This equipment is successfully designed on the basis of a wide research, absorption and digestion of foreign advanced models. It has a reasonable structure with stable performances and easy operation; the whole machine has no dead angle or exposed screws. To ensure a safe production, it is also designed with a device avoiding misoperation of the butterfly valve which is easy to dismantle and wash. Moreover, the cone mill is lifted and lowered to any process heights, so it can be hermetically connected to the next processing equipment. Consequently, powder dust or cross pollution are effectively controlled to optimize the production process, comply entirely with GMP requirements for medicine production.

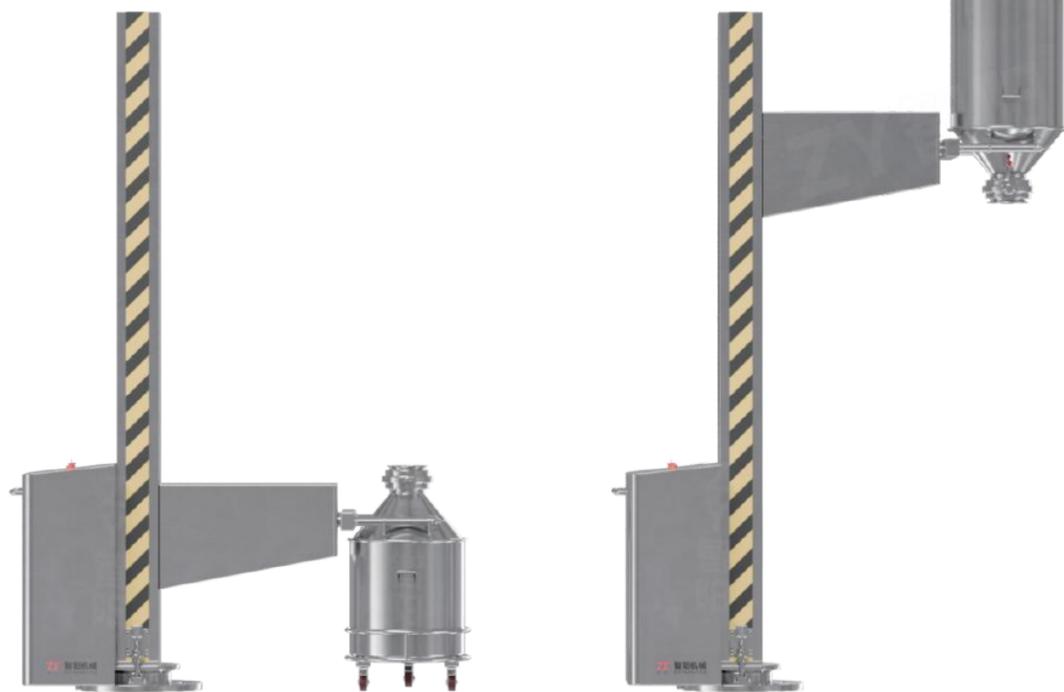
技术参数 technical parameter

项目 Item	型号 Model	NTS-100	NTS-150	NTS-200
总功率 Total power	Kw	1.87	1.87	1.87
主机尺寸 Size of installation for reference	L	mm	1860	1910
	L1	mm	1600	1600
	W	mm	600	600
	H1	mm	2500	2500
	H2	mm	3420	3570
	H3	mm	1950	1950
	H4	mm	3450	3450

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NTG 固定提升加料机

NTG pharma lifter, stationary



概述 Summary

该机主要应用于制药工业固体物料的转送、加料。可与混合机、整料机、压片机、包衣机、胶囊充填机等设备配套使用。同时在制药、化工、食品等行业中广泛使用。

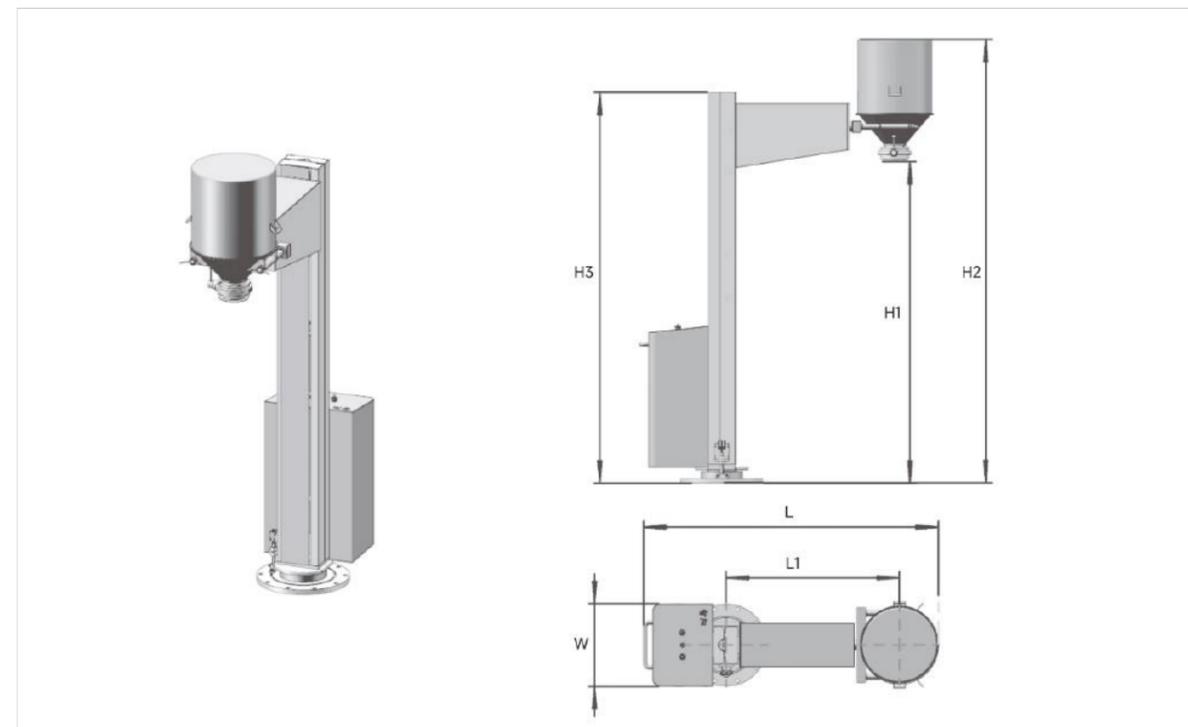
This machine is mainly used for the transfer and feeding of solid materials in the pharmaceutical industry. It can be used in conjunction with mixing machines, granulators, tablet presses, coating machines, capsule filling machines, and other equipment. It is widely used in industries such as pharmaceuticals, chemicals, and food.

原理 Principle

该机主要由底盘、立柱、提升系统等部件组成。工作时，先将锥斗与料桶扣合，然后启动提升按钮，料桶提升；启动翻转按钮，料桶即可翻转180°。旋转立柱与加料的设备密闭对接，开启出料蝶阀，使物料密闭转移到下一工序。

This equipment is composed of chassis, column and drum inversion system. When operating, lock first the drum with the cone adapter, then press "Raise" button to raise the drum. When it's raised in position, press the "Invert" button to invert it 180 and slew the column to swivel the drum over the inlet of the next processing equipment, then open the butterfly valve to discharge the materials into the next processing equipment.

- R&D
- 转序 CONVEYING
- 清洗 CLEANING
- 制粒 GRANULATING
- 配料 DOSING
- 干燥 DRYING
- 混合 MIXING



特点 Feature

该机是我司广泛吸收、消化国外先进技术，结合国情研发成功的新机型。结构合理，性能稳定，操作方便，整机无死角，无外露螺钉。该机设有防误操作装置的出料蝶阀，拆卸方便，易于清洗，确保生产安全。整料机可随锥斗升降到任意工艺高度，方便与下一工序设备密闭对接，有效地控制粉尘与交叉污染，优化了生产工艺，完全符合药品生产的GMP要求。

This equipment is successfully designed on the basis of a wide research, absorption and digestion of foreign advanced models. It has a reasonable structure with stable performances and easy operation; the whole machine has no dead angle or exposed screws. To ensure a safe production, it is also designed with a device avoiding misoperation of the butterfly valve which is easy to dismantle and wash. Moreover, the cone mill is lifted and lowered to any process heights, so it can be hermetically connected to the next processing equipment. Consequently, powder dust or cross pollution are effectively controlled to optimize the production process, comply entirely with GMP requirements for medicine production.

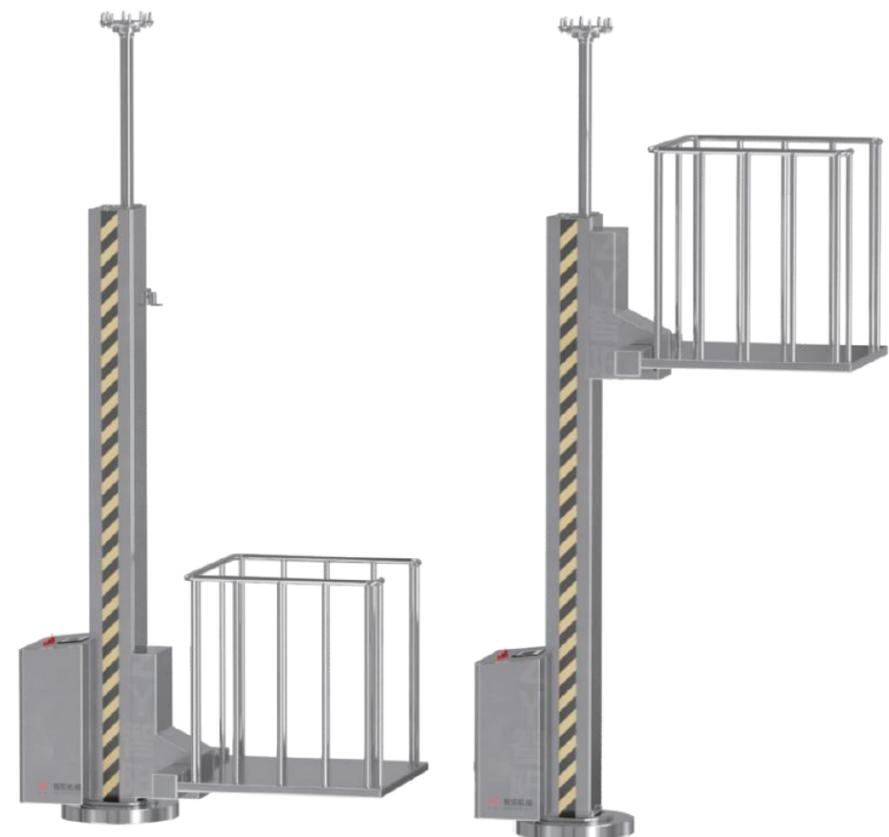
技术参数 technical parameter

项目 Item	型号 Model	NTG-100	NTG-150	NTG-200
总功率 Total power	Kw	1.87	1.87	1.87
主机尺寸 Size of installation for reference	L	mm	1850	1920
	L1	mm	1100	1100
	W	mm	550	550
	H1	mm	2200	2200
	H2	mm	3050	3150
	H3	mm	2800	2800

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NTC 层间提升机

NTC Layer lifter



概述 Summary

该机主要用于制药工业固体物料及料斗的楼层上下输送。同时在制药、化工、食品等行业中广泛使用。

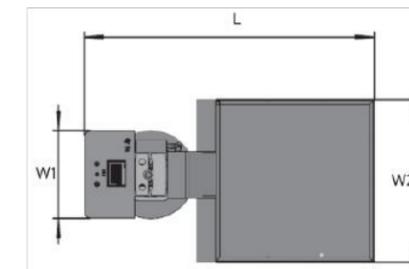
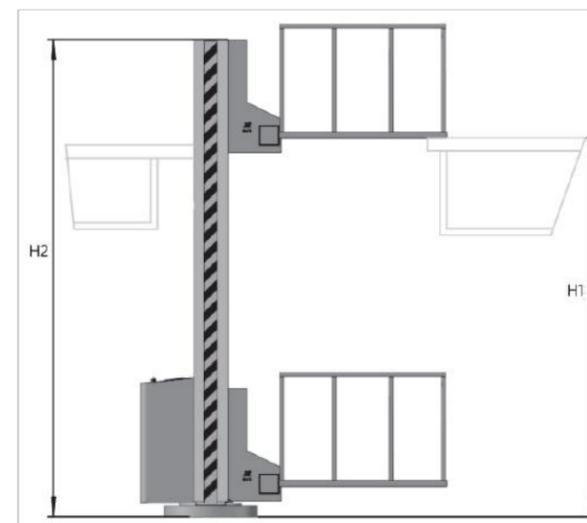
This machine is mainly used for the up and down transportation of solid materials and hoppers in the pharmaceutical industry. It is widely used in industries such as pharmaceuticals, chemicals, and food.

原理 Principle

该机由底盘、立柱、提升系统等部件组成。工作时,先将物料装入或料斗推入提升平台上。然后按下提升按钮,平台提升,平台到位后搬出物料或推出料斗到所需位置。

The machine consists of chassis, frame support, lifting system and other components. When its working, load the materials or push the hopper onto the lifting platform firstly. Then press the "raise" button to lift the platform. Once the platform is at designed position, move out the materials and hopper to the desired position.

- R&D
- 转序 CONVEYING
- 清洗 CLEANING
- 制粒 GRANULATING
- 配料 DOSING
- 干燥 DRYING
- 混合 MIXING



转序
Product handling

特点 Feature

该机结合国情研发成功的新机型。结构合理,性能稳定,操作方便,整机无死角,无外露螺钉。解决了药厂楼层上下物料输送的困难,完全符合药品生产的GMP要求。

This machine is a new model developed successfully based on the national conditions. Reasonable structure, stable performance, easy operation, no dead corners and no exposed screws on the machine. Solved the problem of material transportation up and down the floors in the pharmaceutical factory, fully meeting the GMP requirements for drug production.

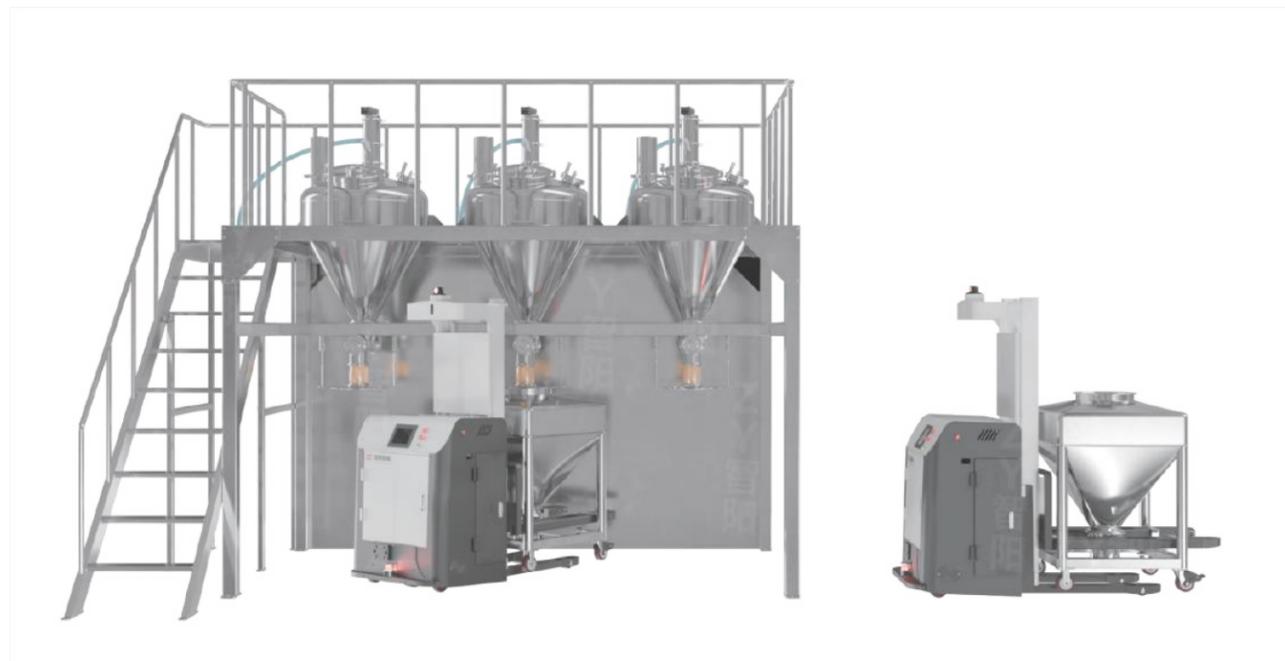
技术参数 technical parameter

项目 Item	型号 Model	NTC-200	NTC-400	NTC-600	NTC-800	NTC-1000	NTC-1500	NTC-2000
总功率 Total power	Kw	1.5	2.2	2.2	2.2	3	3	3
主机尺寸 Size of installation for reference	L mm	1500	1700	1700	1900	1900	2100	2100
	W1 mm	700						
	W2 mm	1000	1000	1000	1200	1200	1400	1400
	H1 mm	≤6000						
	H2 mm	H1+1600						

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LCP 称量配料站

LCP weighing batching station



概述 Summary

按照生产指令和配方，将多种物料分别投入无尘投料站，真空输送机将物料输送到高位暂存料仓，螺旋喂料器将物料定量加入至AGV移动小车上面的称量料仓，在加料过程、重量、精度符合配方要求，投量、输送、计量过程中无粉尘泄漏。

According to the production instructions and formula, various materials are separately feed into the dust-free feeding station. The vacuum conveyor transports the materials to the high-level temporary storage bin, and the screw feeder quantitatively adds the materials to the weighing bin on the AGV mobile car. The feeding process, weight, and accuracy are meet the requirements of the formula, and there is no dust leakage during the feeding, conveying, and metering processes.

特点 Feature

- ▶ 系统可同时控制多套计量系统，可满足多种物料精确给料（根据工艺而定）。
- ▶ 智能化控制配料时间，配料各称之间无任何等待，使得配料周期缩短，提高配料速度和产量。
- ▶ The system can simultaneously control multiple sets of measuring systems, accurate feeding for various kinds of materials that can be satisfied.(according to the process).
- ▶ Intelligent control of batching time, with no waiting between ingredients, shorten the batching cycle, improves batching speed and yield.

技术参数 technical parameter

项目 Item	型号Model	LCP4-200/5	LCP2-300
配料种类 Category	种	4	2
配料重量 Weigh	Kg	200kg及5kg	300kg
准确度等级 Accuracy class		X(0.1)	X(0.1)
产能 Capacity	kg/h	500~2000 kg/h	500~2000 kg/h

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TLZ 无尘投料站

TLZ dust free feeding station



配料
Dosing

概述 Summary

主要解决投料过程中的粉尘飞扬问题。

Mainly solve the problem of dust flying during the feeding process.

原理 Principle

捕吸尘装置：用于形成单向气流，防止粉尘外溢扩散；内配装除尘过滤器；高压离心风机。

Dust collection device: used to form a unidirectional airflow to prevent dust from overflowing and spreading; Equipped with dust removal filter inside; High pressure centrifugal fan.

特点 Feature

脉冲循环反吹再生装置：防止堵塞，实现过滤器材质再次利用功能，易清洗拆卸；过滤器材质：覆膜针刺毡，符合FDA要求，过滤器安装方便易清洁快拆式积木设计，可选配，除铁、过筛、破碎等功能。

Pulse cycle reverse blowing regeneration device: prevents blockage, achieves the function of reusing filter material, and is easy to clean and disassemble; Filter material: Film covered needle punched felt, in compliance with FDA requirements. The filter is easy to install and clean with a quick detachable block design. It is optional for functions as iron removal, sieving, and crushing.

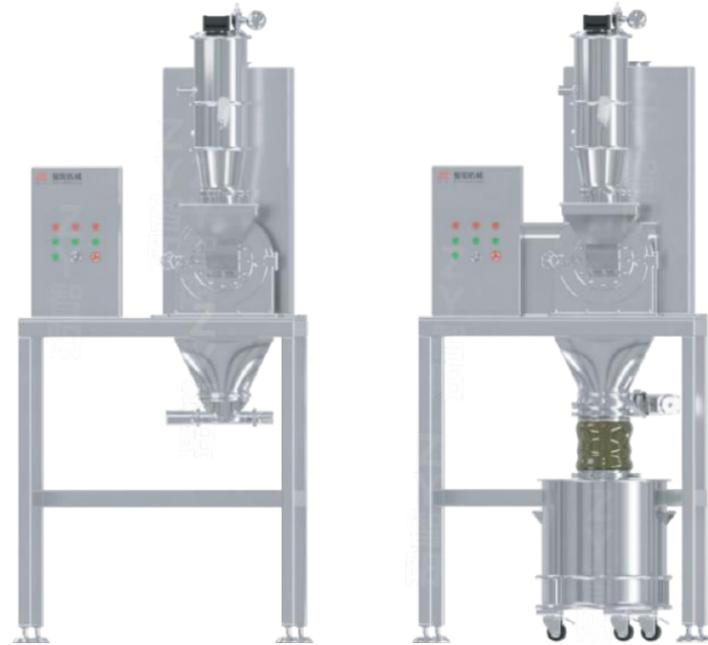
技术参数 technical parameter

项目 Item	型号Model	TLZ-1	TLZ-2
集尘风机 Dust collection fan	kw	1.1	1.5
振动电机 Vibrating motor	Kw	0.18	0.18
除尘过滤器 Dust removal filter		0.4μm覆膜聚酯滤筒 钛金属膜过滤器 0.4 μm Coated polyester filter cartridge Titanium membrane filter	

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WF 无尘粉碎机

WF dust free crusher



概述 Summary

无尘粉碎机用于制药、食品行业粉碎工艺模块。

WF dust free crusher is used for crushing process in the pharmaceutical and food industries.

特点 Feature

- ▶ 10B~100B粉碎机头，不锈钢材质
- ▶ 粉碎产能10~2500Kg/Hr，以60目白砂糖粉碎检验数据
- ▶ 粉碎温度实时监控，保护物料与轴承
- ▶ 对于热敏性物料可以选配冷却水套
- ▶ 根据物料特性，可使用合金刀具
- ▶ 系统可处于最大产能连续稳定生产
- ▶ 出料匀速，与称量系统配合，称量精度<0.1%
- ▶ 系统运行全封闭，最大可能减少处理风量

- ▶ 10B~100B crusher head, made of stainless steel material
- ▶ Crushing capacity of 10-2500Kg/Hr, with 60 mesh white sugar crushing inspection data
- ▶ Monitoring the real time of crushing temperature to protect materials and bearings
- ▶ For heat sensitive materials, a cooling water jacket can be optional
- ▶ According to the material characteristics, alloy cutting tools can be used
- ▶ The system can be production to maintain the continuity and stability at maximum capacity
- ▶ Discharge speed steady, combined with weighing system, weighing accuracy<0.1%
- ▶ The system operates completely enclosed, reduce the processing air volume.

技术参数 technical parameter

项目 Item	型号 Model	WF-10B	WF-20B	WF-30B	WF-40B	WF-60B	WF-80B	WF-100B
生产能力 Capacity	Kg/h	10 ~ 60	60 ~ 150	100 ~ 300	150 ~ 600	200 ~ 1200	200 ~ 1400	250 ~ 2000
进料粒度 Feed Fineness	mm	<6	<6	<10	<10	<10	<10	<10
出料粒度 Discharge Fineness	目 mesh	20 ~ 120	20 ~ 120	20 ~ 120	20 ~ 120	20 ~ 120	20 ~ 120	20 ~ 120
粉碎电机功率 Grushing Motor Power	Kw	2.2	2.2	4	5.5	11	18.5	30
主轴转速 Speed	Rpm	8000	4500-5000	3800	3200	2400	1800	1400
外形尺寸 Dimensions	mm	1000*500*1180	1280*600*1660	1280*600*1660	1450*700*1800	1950*850*2100	2000*850*2200	2200*950*2400
重量 Weight	Kg	180	280	340	450	600	2000	2400

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30B 吸尘粉碎机

30B Dust catcher crushing set



概述 Summary

该机广泛适用于制药、食品、化工等行业各种物料的粉碎。本机由加料、粉碎及吸尘机构组成结构简单、清洗方便，与物料接触部分全部采用不锈钢制造。

The machine is widely used in pharmaceutical, food, chemical, it can crush various of material. The machine is made up of feeding material part and crush part, and collec part. Its configuration is very briefness, all the part which contact the material are made of stainless steel.

技术参数 technical parameter

项目 Item	型号 Model	30B
生产能力 Capacity	Kg/h	50 ~ 300
主轴转速 Rotaing speed of main shaft	Rmp	3800
进颗粒度 Feeding	目 mesh	8
粉碎细度 Crushed fineness	目 mesh	60 ~ 120
粉碎电机 Motor for cruching	kw	5.5
吸尘电机 Motor for dust catching	kw	1.5
外形尺寸 Dimensions	mm	1200*650*1650

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配料
Dosing

ZS 离心振动筛

ZS centrifugal vibration sieve

概述 Summary

ZS离心振动筛应于流水作业，是粗细颗粒比例不等过筛连续出料的理想设备。

ZS centrifugal vibration sieve is suitable for flow operation, it is an ideal equipment for granule which the size proportion is not uniform to separate.



技术参数 technical parameter

项目 Item	型号 Model	ZS-350	ZS-515	ZS-650	ZS-800	ZS-1000	ZS-1200
生产能力 Capacity	Kg/h	50 ~ 300	100 ~ 500	150 ~ 800	180 ~ 1000	200 ~ 1800	250 ~ 2000
过筛目数 Meshes	目 mesh	12 ~ 80	12 ~ 80	12 ~ 80	12 ~ 80	12 ~ 80	12 ~ 80
电机功率 Power	Kw	0.55	0.75	1.1	0.75	1.1	1.5
主轴转速 Speed	Rpm	1380	1370	1370	1500	1500	1500
外形尺寸 Overall Dimensions	mm	540*540*1060	710*710*1290	880*880*1350	900*900*1200	1100*1100*1200	1300*1300*1200
重量 Weight	Kg	100	180	250	300	400	500

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ZKS 真空加料机

ZKS vacuum feeding machine



概述 Summary

我公司生产的真空加料机是在广泛吸收国外同类产品的基础上开发研制的新产品，目前它是国内最为先进、理想、完善的粉状料、粒状料、粉粒料、混合料的真空输送设备。真空加料机自动地将各种物料输送到包装机、注塑机、粉碎机、磨粉机等设备的料斗中，也能直接把混合的物料输送到混合机（如V型混合机、二维混合机、三维混合机等）中，减轻了工人劳动强度，解决了加料时粉尘外溢等问题，是制药厂、食品厂通过GMP认证、促进清洁、文明生产的首选设备。

Vacuum feeding machine is a brand-new type feeding equipment which is developed on the basis of our widely researching, absorbing and digesting foreign updated models. It is the most idea transferring equipment for the materials an powder, granules, mixture of powder and granules, etc. This equipment can transfer all kinds of materials to the funnels of such equipments as packing machine, milling machine, injection machine etc. It also has the function as transferring the material directly to the mixers as (V-type mixer, planar mixer, three-dimentional mixer etc). In this way, working force as well as the dust flying is well dissolved. Vacuum feeding machine is the best equipment to choose for the "GMP" requirement for pharmaceutical factory, foodstuff factory and so on.

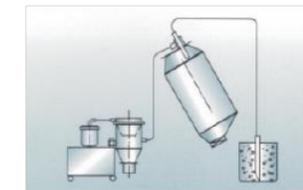
特点 Feature

真空加料机由真空泵(无油、无水)、不锈钢吸料嘴、输送软管、PE过滤器(或316L不锈钢过滤器)、压缩空气反吹装置、气动放料门装置、真空料斗和料位自动控制装置等组成，整套系统设计合理、制造精美。真空加料机分间隙排料和连续排料两种，间隙排料有利于降低设备的投资成本，方便料位控制，在多数情况下，我们建议用户采用间隙排料式。连续排料一般用在长距离、大产量时对物料的真空输送。

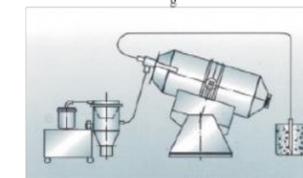
This equipment is made up of such configurations as vacuum pumping (without oil and water), material sucked port(stainless steel), ransferring soft pipe, PE filter or filter made of SS 316L, revering blowing compressed air device, pneumatic discharging device, vacuum material bowland automatical device for controlling the material position etc. The equipment is designed in a perfect way. There are two kinds of vacuum feeding machine: indirect discharging continuous discharging. The first one will benefit in the aspects as follows: lowering the cost as well as easy to control the material position, so we advise you to choose this machine. And for the large-scale and long distance manufacturing, continuous one is advised to be chosen.

- R&D
- 制粒 GRANULATING
- 混合 MIXING
- 转序 CONVEYING
- 配料 DOSING

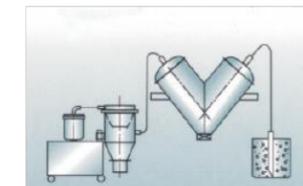
- 清洗 CLEANING
- 干燥 DRYING



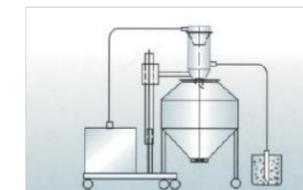
三维混合机自动加料
3D mixer Automatic Feeding



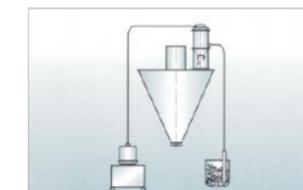
二维混合机自动加料
Plan Motion Mixer



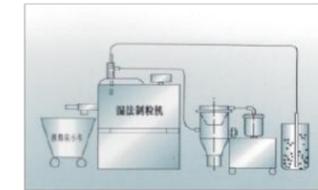
V型混合机自动加料
Model V-Mixer Automatic Feeding



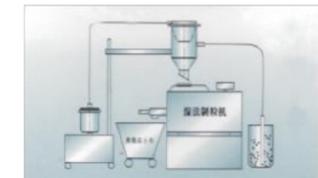
方维混合机自动加料
Side cone Mixer Automatic Feeding



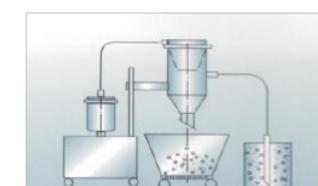
双螺旋混合机自动加料
Double Helixmixer Automatic Feeding



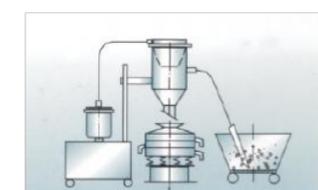
湿法制粒机自动加料
High Speed Mixer Granulator Automatic Feeding



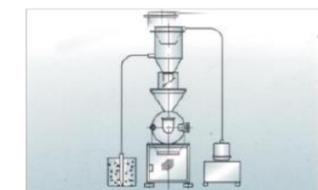
湿法制粒机自动加料
High Speed Mixer Granulator Automatic Feeding



沸腾床自动加料
Fluidizedbed Automatic Feeding



一步制粒后过筛或整粒自动加料
Vibration Sieve Automatic Feeding



粉碎机自动加料
Disintegrator automatic feeding

配料
Dosing

技术参数 technical parameter

项目 Item	型号 Model	ZKS-1	ZKS-2	ZKS-3	ZKS-4	ZKS-5	ZKS-6	ZKS-7
电机功率 Motor power	Kw	1.5	2.2	3	4	5.5	5.5	5.5
输送能力 Delivery capacity	Kg/h	400	600	1200	2000	3000	4000	6000

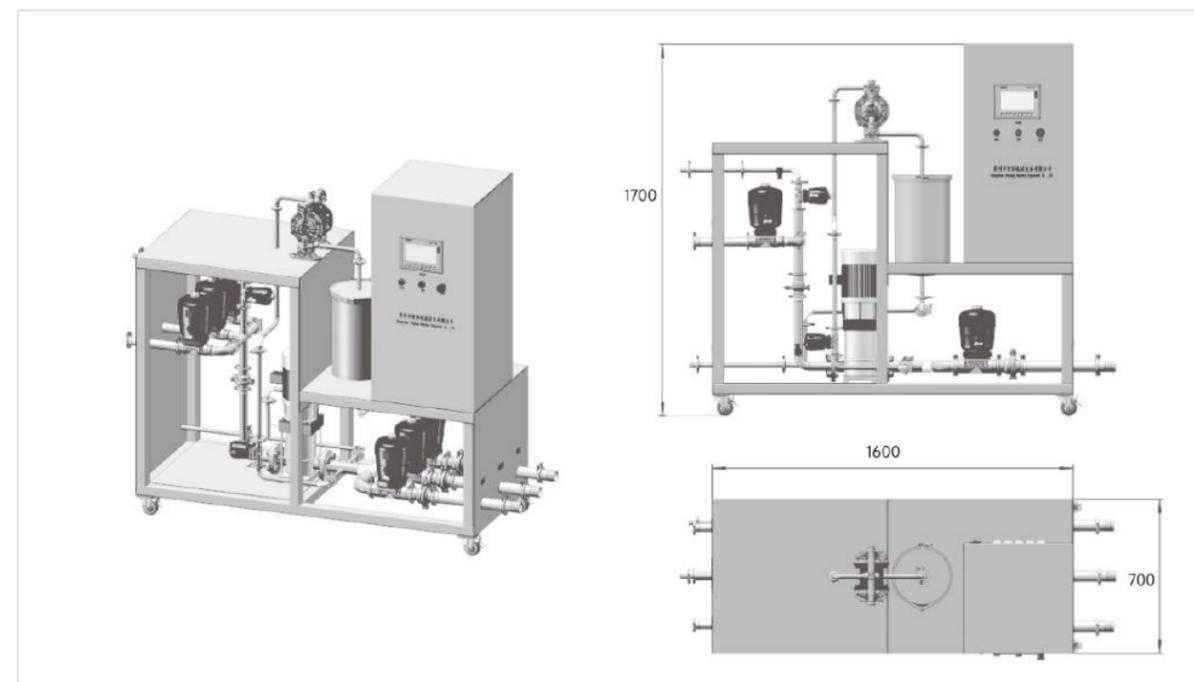
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QW QY 在位移动清洗站

QW QY CIP clean station



- R&D
- 制粒 GRANULATING
- 清洗 CLEANING
- 转序 CONVEYING
- 混合 MIXING
- 配料 DOSING
- 干燥 DRYING



清洗 Washing

运用 Application

该机主要用于制药工业固体制剂生产过程中，与湿法混合制粒机、包衣机等设备配套使用，以实现其在位清洗功能。同时在制药、化工、食品等行业中广泛使用。

This machine is mainly used in the production process of solid preparation in the pharmaceutical industry, in conjunction with equipment such as wet mixing granulators, Fluid bed granulators, and coating machines, to achieve its in place cleaning function. It is widely used in industries such as pharmaceuticals, chemicals, and food.

原理 Principle

该机由泵站、清洗系统、控制系统等组成。工作时，将清洗组件对接到配套设备的各清洗点接口，做好清洗的准备。按工艺要求设定清洗程序，确认后按设定的程序清洗设备腔体内表面；还可外接高压水枪，在清洗区域由人工清洗设备外表面和辅件。清洗过的设备经过干燥处理，以备待用。

This machine consists of a pump station, cleaning system, control system, etc. during work, connect the cleaning components to the interfaces of each cleaning point of the supporting equipment and prepare for cleaning. Set the cleaning program according to the process requirements, and after confirmation, clean the inner surface of equipment according to the set program; It can also be connected to a high-pressure water gun, and the external surface and accessories of the equipment can be manually cleaned at the cleaning area. The cleaned equipment is dried and prepared for use.

特点 Feature

该机结构合理，性能稳定，操作方便，可以一机多用，减轻劳动强度，优化了生产工艺，完全符合药品生产的GMP要求。

This machine has a reasonable structure, stable performance, easy operation, and can be used multiple purposes, reducing labor intensity, optimizing production processes, and fully completed with GMP requirements for drug production.

技术参数 technical parameter

项目 Item	型号 Model	QW/QY-5	QW/QY-10	QW/QY-15
功率 Power	Kw	2.2	3.0	5.5
水流量 Water flow	m ³ /h	5	10	15
水压力 Water pressure	Bar	2~7	2~7	2~7

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QD 自动料仓清洗机

QD Automatic hopper cleaning equipment



运用 Application

该机主要用于制药工业固体制剂生产过程中的容器自动清洗。配一台料斗清洗机能清洗不同规格的混合料斗或周转料斗，是药厂清洗容器的理想设备。同时在制药、化工、食品等行业广泛使用。

This machine is mainly used for automatic cleaning of hoppers in the production process of solid preparations in the pharmaceutical industry. Equipped with a hopper cleaning machine, it is an ideal equipment for cleaning hoppers in pharmaceutical factory. It is widely used in industries such as pharmaceuticals, chemicals, and food.

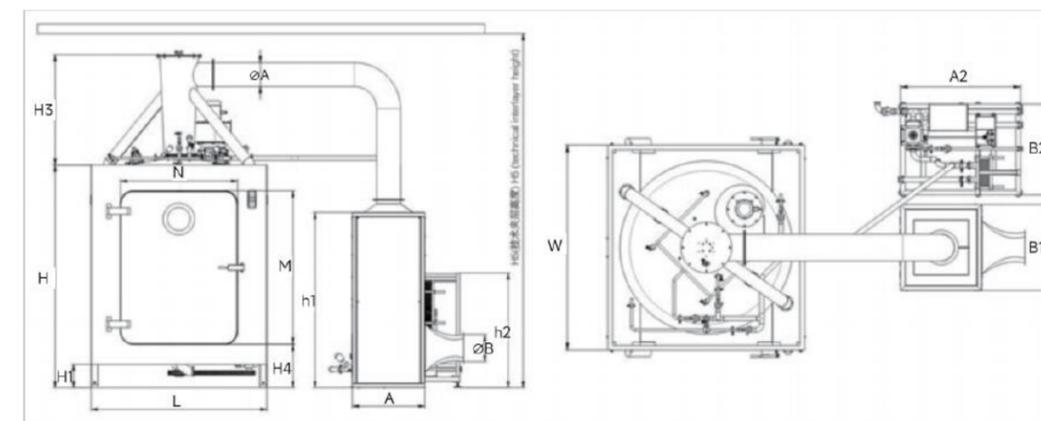
原理 Principle

该机有清洗室、泵站、空气处理单元、控制系统等组成。工作时开启清洗机的进口门，将使用过的混合料斗、周转料斗等容器推入清洗室内，关闭清洗机的门。按工艺要求设定清洗程序，确认后开机清洗，自动设定的程序工作。清洗完毕后，打开清洗机的出口门，将清洗过的容器推出，送到中间站存放，以备生产使用。

The machine consists of a cleaning chamber, pump station, air treatment unit, control system, etc. Open the door of the cleaning machine while working, push the used mixing hoppers, turnover hoppers, and other containers into the cleaning chamber, and close the door. Set the cleaning program according to the process requirements, confirm and start the cleaning, and set the working program in automatically. After cleaning, open the door of the cleaning machine, push out the cleaned hopper, and transfer it to the intermediate station for storage for production use.

- R&D
- 制粒 GRANULATING
- 混合 MIXING
- 转序 CONVEYING
- 配料 DOSING

- 清洗 CLEANING
- 干燥 DRYING



特点 Feature

该机结构合理，性能稳定，操作方便，整机无死角，无外露螺钉。该机采用PLC去自动控制，确保生产安全。优化了生产工艺，完全符合药品生产的GMP要求。

The machine has a reasonable structure, stable performance, easy operation, and no dead corners or exposed screws. This machine adopts PLC for automatic control to ensure production safety. Optimized the production process and fully meets the GMP requirements for drug production.

清洗 Washing

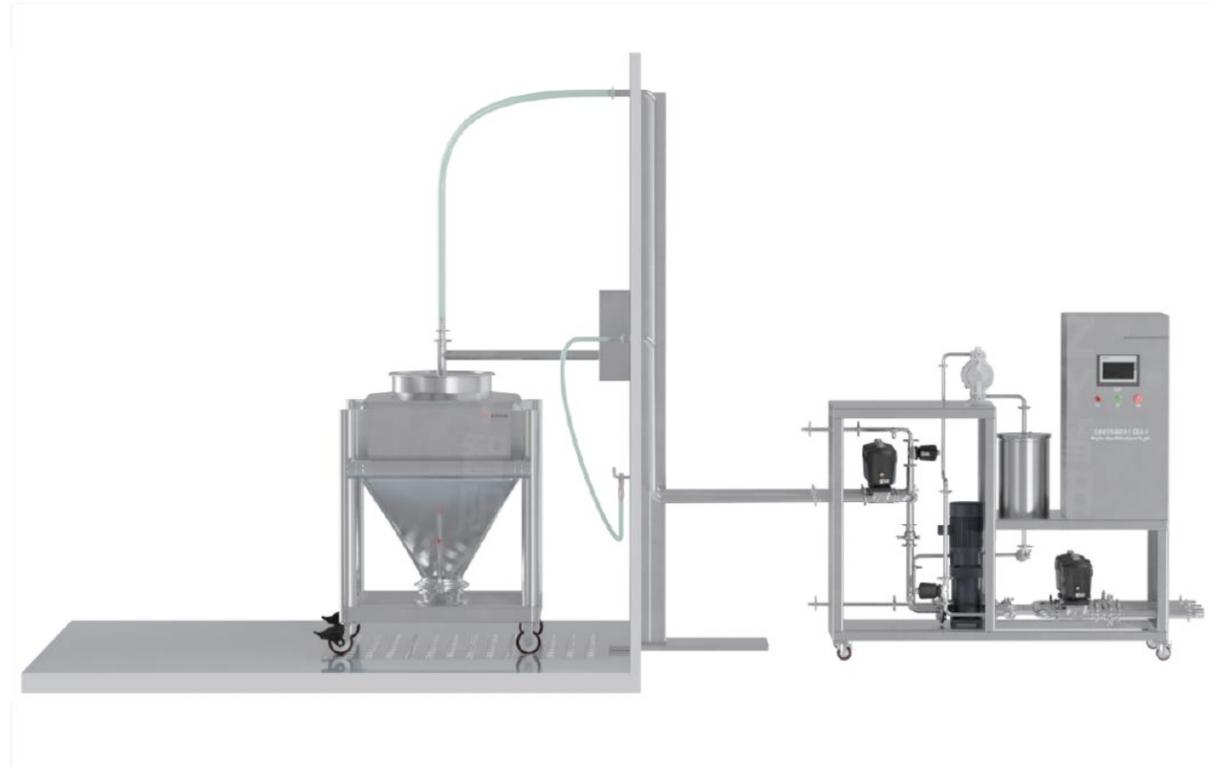
技术参数 technical parameter

项目 Item	型号 Model	QD-800	QD-1000	QD-1500	QD-2000	
泵功率 Pump power	Kw	3	3	3	5.5	
泵流量 Pump flow	T/h	5.8	5.8	5.8	10	
泵压力 Pump pressure	Mpa	0.7	0.7	0.7	0.8	
压缩空气压力 Compressed air pressure	Mpa	0.6-0.8	0.6-0.8	0.6-0.8	0.6-0.8	
安装功率 Installed power	Kw	7.4	7.4	7.4	11	
整机重量 Machine weight	Kg	3600	3800	4600	5500	
主机尺寸 Size of installation for reference	H	mm	2300	2400	2800	2800
	H1	mm	274	274	274	274
	H2	mm	3900	4110	4910	4910
	H3	mm	1000	1092	1492	1492
	H4	mm	510	510	510	510
	h1	mm	2055	2055	2055	2055
	h2	mm	1345	1345	1345	1345
	W	mm	2144	2144	2144	2144
	M	mm	1500	1600	2000	2000
	N	mm	1375	1375	1375	1375
	L	mm	2060	2060	2060	2060
	ØA	mm	280	280	280	280
ØB	mm	320	320	320	320	
A1	mm	850	850	850	850	
A2	mm	1258	1258	1258	1258	
B1	mm	900	900	900	900	
B2	mm	950	950	950	950	

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NTQW 半自动料仓清洗机

NTQW semi-automatic hopper cleaning equipment



运用 Application

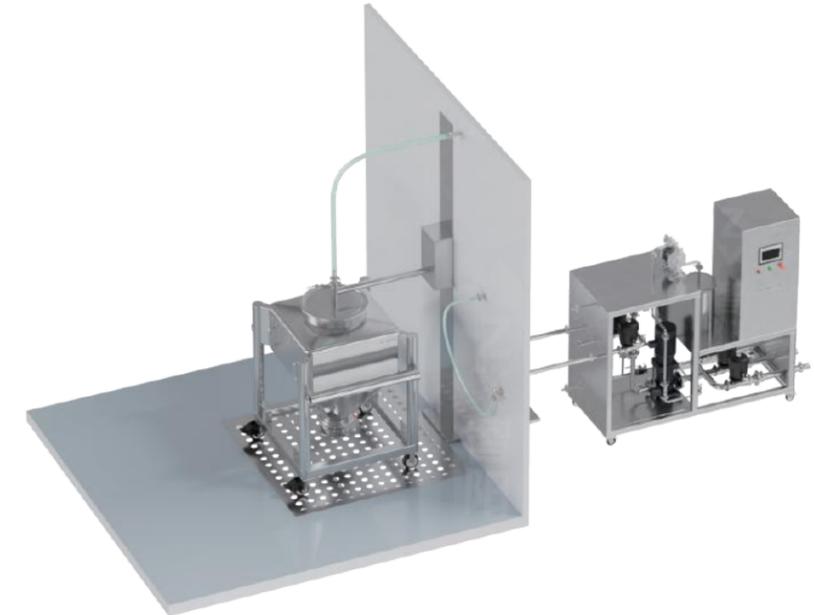
NTQW半自动料仓清洗机用于固体制剂生产中周转料斗的清洗，料斗内表面采用旋转清洗球自动清洗，外表面人工水枪清洗。清洗球可升降以适应不同规格料斗的清洗需求，可应用于制药、化工、食品等行业。

The NTQW semi-automatic hopper cleaning equipment is used for cleaning the turnover hopper in solid preparation production. The inner surface of the hopper is automatically clean with a rotating cleaning ball, and the outer surface is manually clean with a water gun. The cleaning ball can be lifted and lowered to meet the cleaning needs of different specifications of hoppers, and it can be applied in industries such as pharmaceuticals, chemicals, and food.

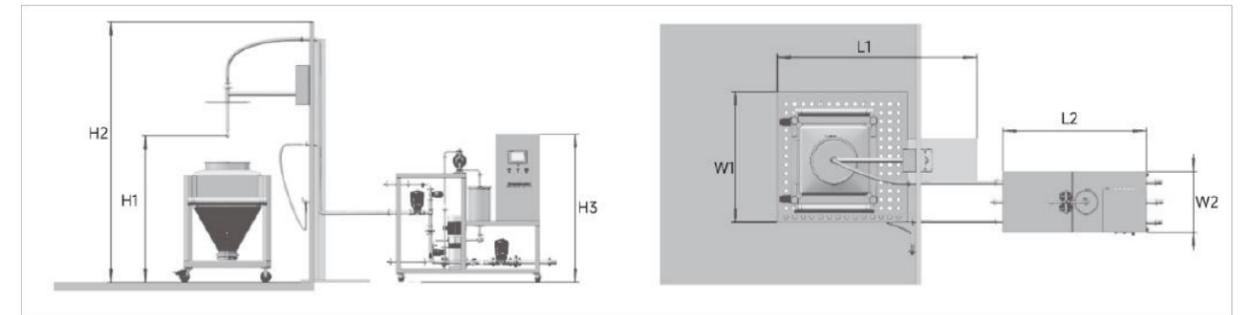
特点 Feature

- ▶ 触摸屏操作、PLC控制，控制系统采用多级密码管理，确保运行数据安全。
- ▶ 工艺参数采用配方管理模式，系统具有数据存储、故障报警、数据打印等功能。
- ▶ 料斗内面采用旋转清洗球自动清洗，确保清洗工艺的一致性；外表面人工水枪清洗。
- ▶ 清洗球可通过提升机构升降，以适应不同规格料斗的清洗需求。
- ▶ 清洗废水格栅地漏排走。
- ▶ Touch screen operation, PLC control, control system adopts multi-level password management to ensure the security of operating data.
- ▶ The process parameters adopt a formula management mode, and the system has functions such as data storage, fault alarm, and data printing.
- ▶ The inner surface of the hopper is automatically clean with a rotating cleaning ball, to ensure consistency of the cleaning process; outer surface is use water gun for cleaning.
- ▶ The cleaning ball can be lifted and lowered by the lifting mechanism to meet the cleaning needs of different specifications of hoppers.
- ▶ The cleaning wastewater is discharge by floor drain.

- R&D
- 制粒 GRANULATING
- 混合 MIXING
- 转序 CONVEYING
- 配料 DOSING
- 清洗 CLEANING
- 干燥 DRYING



清洗 Washing



技术参数 technical parameter

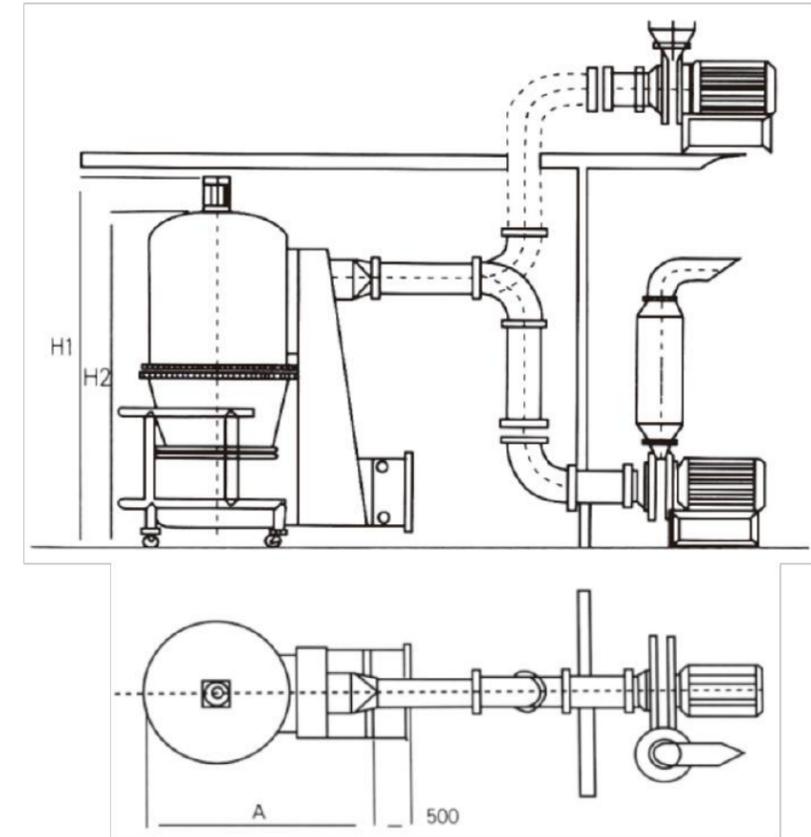
项目 Item	型号 Model	NTQW-5	NTQW-10	NTQW-15	
提升功率 Lifting power	功率 Power	Kw	0.75	0.75	0.75
	水流量 Water flow	m ³ /h	5	10	15
	水压力 Water pressure	Bar	2~7	2~7	2~7
主机尺寸 Size of installation for reference	L	mm	2200	2440	2940
	L2	mm	1600	1600	1600
	W1	mm	1500	1800	2200
	W2	mm	700	700	700
	H1	mm	1500	1900	2500
	H2	mm	2800	3500	3500
	H3	mm	1700	1700	1700

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GFG 高效沸腾干燥机

GFG High-efficiency fluidizing dryer

- R&D
- 制粒 GRANULATING
- 清洗 CLEANING
- 转序 CONVEYING
- 混合 MIXING
- 配料 DOSING
- 干燥 DRYING



其他干燥
Other drying

概述 Summary

本机用于制药、化工、饲料、食品等领域湿颗粒物料干燥。

The machine is suitable for drying damp granule material in many fields such as pharmaceutical industry, chemical industry, feedstuff industry foodstuff industry, etc.

特点 Feature

- ▶ 流化床为圆形结构避免了死角。
- ▶ 床内设置搅拌，避免了潮湿物料的团聚及干燥过程中形成的沟流。
- ▶ 顶置布袋过滤器为抗静电特种纤维，操作安全。
- ▶ 翻倾卸料，方便迅速彻底。
- ▶ 密封负压操作，按GMP规范设计。
- ▶ 本机亦可按要求进行自动进出料设计制作。
- ▶ 干燥速度快，温度均匀，每批干燥时间一般均在20-30分钟。

- ▶ Its fluid-bed is round structure. So it avoid dead corner.
- ▶ In the bed there is stirrer. It avoids agglomeration of damp material and forms channel flow during the period of drying.
- ▶ The bag filter on top is made from anti-static special fiber. The operation is safe.
- ▶ Discharged by turning over. It is quick and complete.
- ▶ Operated at sealed negative Pressure and designed by GMP.
- ▶ The machine can also be designed feeding and discharge automatically in accordance with requirements.
- ▶ Quick drying speed, uniform temperature. In general, the drying time each batch is about 20-30 minutes.

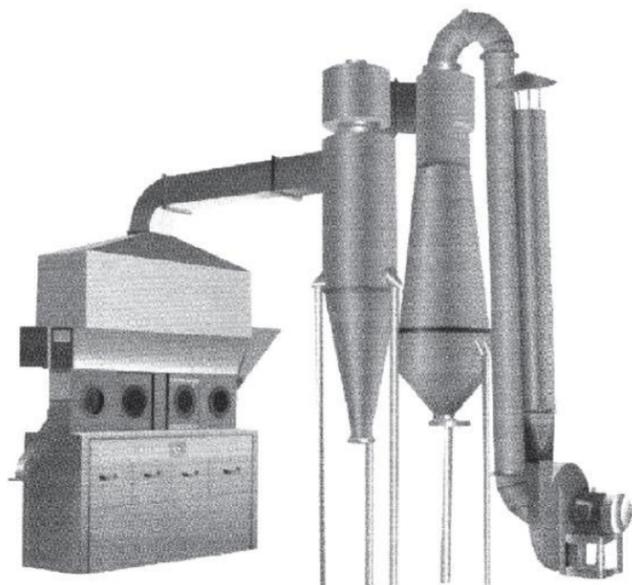
技术参数 technical parameter

项目 Item	型号 Model	GFG-60	GFG-100	GFG-120	GFG-150	GFG-200	GFG-300	GFG-500	GFG-800~1000	
生产能力 Capacity	Kg/batch	60	100	120	150	200	300	500	按用户 要求 设计 by client	
风机功率 Power of fan	Kw	7.5	11	11	15	22	30	37		
搅拌功率 Power of stirring	Kw	0.55	1.1	1.1	1.1	1.1	1.1	1.5		
搅拌转速 Rotaing speed of stirring	Rmp	11								
蒸汽 Steam	耗量 Consumption	Kg/h	141	170	210	240	282	366		451
	压力 Pressure	Mpa	0.4~0.6							
操作时间 Working time	min/batch	15~90								
主机尺寸 Size of installation for reference	H1	mm	2676	2842	2862	2940	3014	3300		3650
	H2	mm	2366	2532	2532	2630	2704	2800		3150
	A	mm	2440	2540	2540	2740	2840	2940		3140

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XF 卧式沸腾干燥机

XF horizontal fluidizing dryer



概述 Summary

沸腾干燥器，又称流化床，经过30多年的使用、改进，目前在制药、化工、食品、粮食加工等方面，越来越体现它的重要作用。它是由空气过滤器、沸腾床主机、旋风分离器、布袋除尘器、高压离心通风机、操作台组成。由于干燥物料的性质不同，配套除尘设备时，可按需要而进行，可同时选择旋风分离器、布袋除尘器，也可选择其中的一种。一般来说，比重较大的物料只需选择旋风分离器。比重较轻的物料需配套布袋除尘器，并备有气力送料装置供选择。本设备有连续型与间隙式两种操作方式。

Fluidizing dryer is also called fluid bed. Through operation and improvement over 30 years, it has play an active part in the fields of pharmaceutical, chemical, foodstuff, gain and so on industries. It consists of air filter, fluid bed, cyclone separator, dust collector, high-speed centrifugal fan, control cabinet and so on. Because of the difference of property from raw material, it is necessary to equip dust remover in accordance with practical needs. It may select cyclone separator and dust collector both or one of them. In general, cyclone separator can be selected if the raw material is larger and the dust collector may be selected if the raw material is light. Moreover there is pneumatic feeding device for your selection. There are two kinds of operation for this machine, continuous and intermittent type.

原理 Principle

洁净的热风经阀板分配进入床体内，从加料器进入的湿物料被热风形成沸腾状态。由于热风与物料广泛接触，增强了传热传质的过程，因此在较短时间内就可干燥。如用连续型，物料从床体的一头进入，经过几十秒至几分钟沸腾干燥，自动从床体另一头流出。本设备一般进行负压操作。

The clean and hot air enters into fluid bed through distributor of valve plate. The wet material is fed from the feeder forms the fluid state by hot air. Because of the wide contact between hot air and raw materials, the time of drying is short. If use continuous type, the material enters from the front of bed, fluidized in bed for several minutes, and float another side of bed. The machine works in negative pressure.

应用 Application

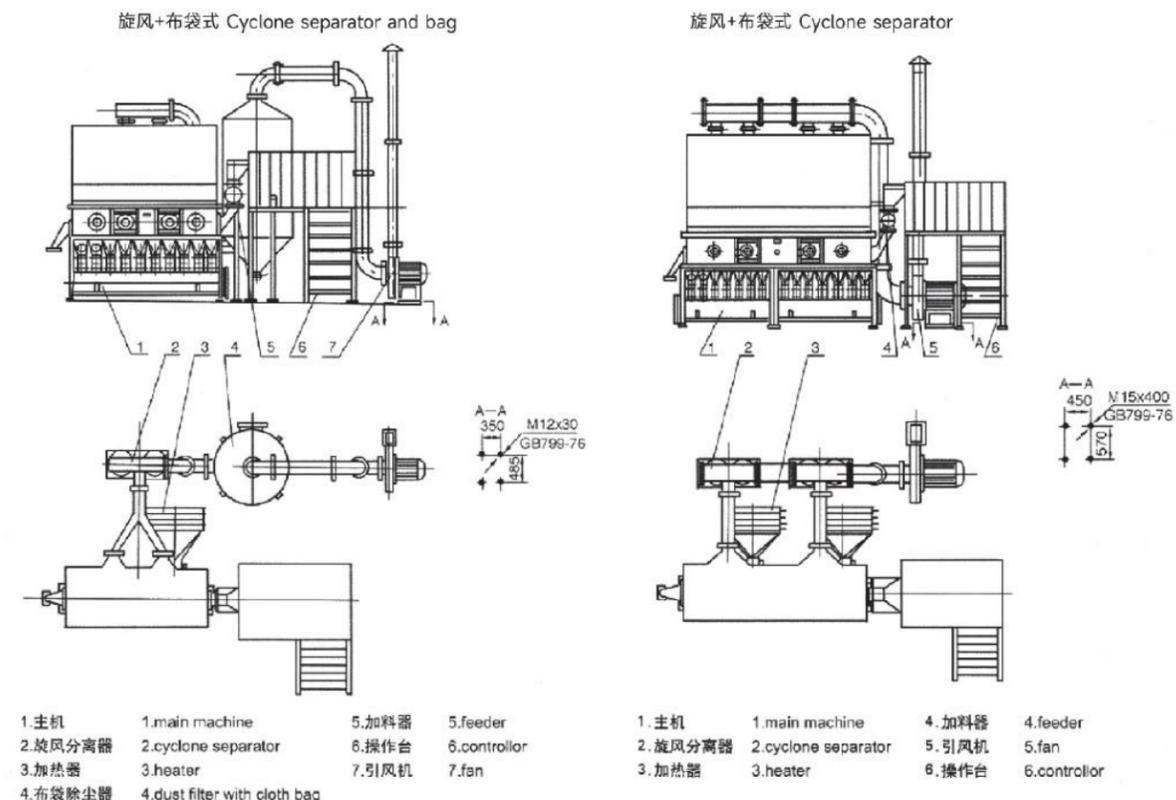
医药药品、化工原料、食品、粮食加工、饲料的干燥作业。如：原料药、压片颗粒、中药冲剂、保健食品、饮料冲剂、玉米胚芽、饲料、塑料树脂、柠檬酸和其它粉粒状物料的干燥除湿。适用物料粒径一般为0.1-6mm，最佳粒径为0.5-3mm。

Drying process of medicines, chemical raw material, foodstuff, grain processing, feed and so on. For example, raw medicine, tablet, Chinese medicine, foodstuff of health protection, drinks, maize germ, feed, resin, citric acid and other powders. The suitable diameter of raw material is normally 0.1-0.6mm. The most applicable diameter of raw material will be 0.5-3mm.

- R&D
- 制粒 GRANULATING
- 清洗 CLEANING
- 转序 CONVEYING
- 混合 MIXING
- 配料 DOSING
- 干燥 DRYING



安装示意图 Schematic of installation



安装说明 Explanation to installation

- 各设备需摆放平整，用此脚螺丝固定，各部件密封良好。
- 风机可摆放于室外或自建消音室内。平面布置可根据具体情况酌情调整。
- All equipment should be horizontal and fixed with foundation screw on the ground. All parts should be sealed well.
- The fan may be installed outside door or in the special noise free room. The plan can be adjusted slightly in accordance with the real conditions.

技术参数 technical parameter

项目 Item	型号 Model	XF-10	XF-20	XF-30	XF-50
干燥能力 Drying capacity	Kg/h	10 ~ 15	20 ~ 25	30 ~ 40	50 ~ 80
风机功率 Power of fan	Kw	7.5	11	15	30
风压 Air pressure	Pa	5.5x10 ⁵	5.8x10 ⁵	7.1x10 ⁵	8.5x10 ⁵
风量 Air velocity	m ³ /h	1500	2000	3850	7000
进风温度 Tem of inlet air	°C	60 ~ 200	60 ~ 200	60 ~ 200	60 ~ 200
最大能耗 Max consume	J	2.0x10 ⁸	2.6x10 ⁸	5.2x10 ⁸	1.04x10 ⁹
进料形式 Form of feeding		1.星形加料器 shape valve 2.气力自行输送 pneumatic conveying			

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注：干燥能力以干燥酸梅晶初含水份20%，终含水份5%，进风温度130°C时测定，其它物料的干燥能力按具体干燥情况为准，选型时

注意，A型：配旋风分离器；B型：内袋式；C型：既带旋风，又配布袋除尘器。

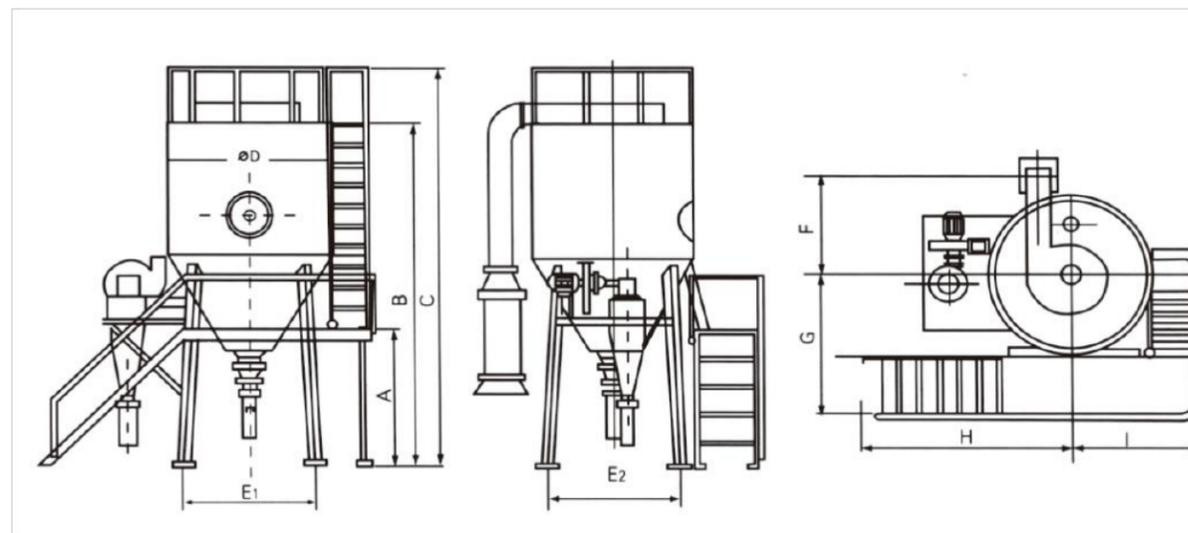
Notes: the drying capacity is measured based on the primary moisture of crystal of plum is 20% and its final moisture is 5% and the temperature of air inlet is 130°C. The drying capacity of other raw materials will be based on the practical drying condition. When choose models, please note that: Model A should be matched with cyclone separator and Model B with inside bag dust collector and Model C with cyclone separator and bag dust collector.

其他干燥
Other drying

LPG 高速离心喷雾干燥机

LPG high-speed centrifugal spray drier

- R&D
- 制粒 GRANULATING
- 清洗 CLEANING
- 混合 MIXING
- 转序 CONVEYING
- 配料 DOSING
- 干燥 DRYING



其他干燥
Other drying

概述 Summary

喷雾干燥是液体工艺成形和干燥工业中最广泛应用的工艺。最适用于从溶液、乳浊液、悬浮液和可泵性糊状液体原料中生成粉状、颗粒状产品。因此，当成品的颗粒大小分布、残留水分含量、堆积密度和颗粒形状必须符合精确的标准时，喷雾干燥是一道十分理想的工艺。

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

特点 Feature

► 干燥速度快，料液经雾化后表面积大大增加，在热风气流中，瞬时就可蒸发95%~98%的水份，完成干燥时间仅需5~40秒钟，特别适用于热敏性物料的干燥。

► 产品具有良好的分散性、流动性或溶解性，由于干燥过程是在空气中完成的，所以基本能保持于液滴相近似的球状，良好的分散性、流动性和溶解性，使产品纯度高、质量好。

► 生产过程简化，操作控制方便。通常用于湿含量40~60%的溶液(特殊物料可达90%)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，简化了生产工艺流程，控制和管理都很方便。

► Quick drying speed, the surface area of material liquid through atomizing is increased greatly. In hot air stream, 95% to 98% of moisture can be evaporated at the moment. Particularly suitable to finish drying thermal sensitive material. The product made by the machine has good uniformity, fluidity, solubility, high pure, and high quality.

► The productive process is simple and the operation control is very convenient. For liquid containing 40~60% of damp (for special material, may be 90%), it can be dried to powder product through drying one time. After dried, it is not necessary to crush and sieve. So it reduces productive procedure and raises the purity of product. For the size, bulk density and moisture of product can be adjusted within certain scope through changing operation condition. The control and management are very convenient.

技术参数 technical parameter

项目 Item	型号 Model	LPG-5	LPG-25	LPG-50	LPG-100	LPG-150	LPG-200-300	
入口温度 Top of inlet air	°C	≤350°C						
出口温度 Top of outlet air	°C	≤80°C~90°C						
蒸发量 Evaporated capacity	kg/h	5	25	50	100	510	200~300	
传动形式 Transmitted		压缩空气驱动 Compressed air	机械传动 Machine transmission					
转速 Rotating speed	Rpm	25000	22000	21500	18000	18000	15000	
喷雾盘直径 Dia of atomizing disk	mm	50	120	120	120	150	180~340	
热源 Heat source		电 Electricity	电 Electricity	电+蒸汽 燃油、煤汽 Electricity+steam oil fuel, gas	电+蒸汽 Electricity+steam	电+蒸汽 燃油、煤汽 Electricity+steam oil fuel, gas	由用户自行解决 By customer	
电加热功率 Power of electric heater	Kw	9	45	60	81	99		
干粉回收率 Yield of dry power	%	≥95	≥95	≥95	≥95	≥95	≥95	
主机尺寸 Size of installation for reference	A	mm	1000	1290	1730	2500	2800	根据实际情况确认 decided in accordance with actual condition
	B	mm	2100	3410	4245	5300	6000	
	C	mm	2300	4260	4645	6000	6700	
	∅	mm	1060	1800	2133	2560	2860	
	E1	mm	1050	1200	1640	2100	2180	
	E2	mm	1050	1200	1640	2100	2180	
	F	mm	750	1000	1250	1750	1970	
	G	mm	530	1700	1750	1930	2080	
	H	mm	530	1300	1800	2600	3050	
I	mm	530	1550	1600	1780	1960		

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XSG 旋转闪蒸干燥机

XSG rotating flash dryer



概述 Summary

XSG旋转闪蒸干燥机是用来干燥膏糊状、滤饼状以及粉状等物料的新型干燥设备。

XSG rotating flash dryer is used for drying materials such as paste, cake shape material, powder, granule, etc.

特点 Feature

- ▶ 由于物料受到离心、剪切、碰撞、摩擦而被微粒化呈高度分散状态及气固间的相对速度较大，强化了传质传热，使该机生产强度高。
- ▶ 干燥气体进入干燥机底部，产生强烈的旋转气流，对器壁上物料产生强烈的冲刷带出作用，消除粘壁现象。
- ▶ 在干燥机底部高温区，热敏性物料不与热表面直接接触，解决了热敏性物料的焦化变色问题。
- ▶ 由于干燥室内周向风速高，物料停留时间短，达到高效、快速、小设备大生产。
- ▶ 干燥室上部的分级器可以控制出口物料的粒度及湿度。

- ▶ The material is acted by centrifugal force, shearing force, impact and friction, the particle is very small and is in high degree distributing state. Meanwhile the relative speed between air and solid is big, it strengthens mass and heat transmission. So it makes the machine has high output.
- ▶ The hot air will enter the bottom of the dryer and produce vigorous eddy airflow it will produce strong washing out and bring out effect to material and eliminate the phenomenon of adhering wall.
- ▶ At the area of high temperature at the bottom of dryer, thermal sensitive material does not contact with hot surface. It solves coking and discoloring problem of thermal sensitive material.
- ▶ Because of high cycle speed and short staying time of material in drying chamber, high efficiency and big production of small equipment can be got.
- ▶ The distributor at up part of drying chamber can control size and temperature of material at outlet.

技术参数 technical parameter

项目 Item	型号 Model	XSG-2	XSG-3	XSG-4	XSG-5	XSG-6	XSG-8	XSG-10	XSG-12	XSG-14	XSG-16
干燥器筒体直径 Dia of dryer	mm	200	300	400	500	600	800	1000	1200	1400	1600
主机尺寸 Sizes of main machine	mm	300*2800	400*2800	500*3000	600*3200	600*3500	900*4000	1100*4500	300*5000	500*5500	700*6000
主机功率 Power of main machine	kw	0.75~2.2	1.5~3	3~4	5.5	5.5~7.5	7.5	7.5~11	11~15	15~18.5	22
处理风量 Volume of air	m ³ /h	300~800	600~1500	1250~2500	1500~4000	2500~5000	3000~8000	5000~12500	10000~20000	14000~27000	18700~36000
蒸发水量 Vaporized capacity	kg.H ₂ O/h	10~20	20~50	25~70	30~100	40~150	60~200	100~200	150~500	200~600	250~800
占地平面尺寸 Occupied area	mm	3500*2500	3800*2700	4000*3000	4200*3200	4250*3250	4500*3500	4750*3750	5000*4000	5250*4250	5500*4500

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CT、CT-C 热风循环烘箱

CT、CT-C Hot air circulation oven



概述 Summary

烘箱的最大特点是大部分热风在箱内进行循环,从而增加传热,节约了能源。它是利用强制通风的作用,减少上下温差,我公司出厂的烘箱,均设有分风装置,用户可在使用前进行风叶调节,使上下温差处于最佳状态。

The most remarkable feature of the oven is that most hot air cycles in the oven. So it increases heat transferring and saves energy. It uses the function of forcible ventilation to reduce temperature difference between low and up. The oven delivered by our factory has air distributor. Before use, customer can adjust fan blade and make it is at best state.

技术参数 technical parameter

项目 Item	型号 Model	CT-1	CT-2	CT-3	CT-4	CT-C-0	CT-C-1	CT-C-2	CT-C-3	CT-C-4	
每次干燥量 Dry capacity each time	Kg	100	200	300	400	25	100	200	300	400	
配用功率 Equipped power	Kw	1.1	1.1	2.2	2.2	0.45	0.45	0.9	1.35	1.8	
耗用蒸汽 Consumpton of steam	kg/h	20	40	60	80	15	20	40	60	80	
散热面积 Radiation area	m ²	20	40	80	100	15	20	40	80	100	
风量 Volume of air	m ³ /h	1400	5200	9800	9800	3450	3450	6900	10350	13800	
上下温差 Difference between up and low	°C	±2	±2	±2	±2	±2	±2	±2	±2	±2	
配用烘盘 Baking disk	个	48	96	144	192	24	48	96	144	192	
外形尺寸 Overall dimensions	mm	2430*1200*2375	2430*2200*2433	3430*2200*2620	4380*2200*2620	1550*1000*2044	2300*1200*2300	2300*2200*2300	2300*3220*2000	4460*2200*2290	
配套烘车 Baking dolly	个	2	4	6	8	1	2	4	6	8	

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其他干燥
Other drying

FZG、YZG 真空干燥机

FZG、YZG vacuum dryer



概述 Summary

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。

蒸发操作的热源可以采用低压蒸汽或废热蒸汽(用户特殊要求选用水或油加热，厂方可为你专门设计)。

适用于在高温下易分解，聚合和变质的热敏性物料的干燥。

在干燥前可进行消毒处理，干燥过程中任何不纯物均无混入。

由于是静态式真空干燥机，故干燥物料的形体不会损坏。

Under vacuum, the boiling point of material solution will reduce, it will increase impetus for heat and mass exchange. Therefore for certain heat exchange amount, it can save heat exchange area of evaporator.

The heat source for evaporating operation may be low. Pressure steam or waster heat steam (If having special requirement customer may choose water or oil to heat. Our factory can design specially for you) Heat loss of evaporator may be reduced. Suitable for drying thermal sensitive material that is easy to decompose polymerize or denature.

Before drying, it can carry out disinfections. During the process of drying, any impurity can't be mixed into it.

It is static vacuum dryer, the form and structure of material can't be damaged.

技术参数 technical parameter

项目 Item	型号Model	YZG-600	YZG-1000	YZG-1400	YZG-1500
干燥箱内尺寸 Inner size of drying chamber	mm	600x976	1000x1527	1400x2054	1500x1400x1220
干燥箱外尺寸 Outer size of drying chamber	mm	1135x810x1020	1693x1190x1500	2386x1675x1920	1513x1924x2060
烘架层数 Layer amount of baking frame	层	4	6	8	8
层间距离 Distance between layers	mm	81	102	102	122
烘盘尺寸 Size of baking disk	mm	310x600x45	460x640x45	460x640x45	460x640x45
烘盘数 Qty of baking disk	层	4	12	32	32
烘盘管内使用压力 Prssure used in pipe of baking disk		≤0.784(8kg/cm ²)	≤0.784	≤0.784	≤0.784
烘架使用温度 Temperature of baking frame to be used	°C	35-150	35-150	35-150	35-150
箱内空载真空度 Vacuum in idle in chamber	Mpa	≤0.098(1kg/cm ²)	≤0.098	≤0.098	≤0.098
用冷资器时，真空泵型号 When use condensator, model and power of vacuum pump		2X-15A2KW	2X-30A3Kw	2X-70A5.5Kw	2X-70A7KW
不用冷资器时，真空泵型号 When not use condensator, model and power of vacuum pump		SK-0.8 2.2Kw	SK-3 5.5Kw	SK-3 5.5Kw	SK-3 5.5Kw
干燥箱重量 Weight of drying chamber	Kg	250	800	1400	2100

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SZG 双锥回转真空干燥机

SZG double cone rotary vacuum dryer



概述 Summary

不能承受高温的物料。

容易氧化的物料。

对结晶体不允许破坏的物料。

回收干燥时排除的湿份的物料。

强烈刺激有毒物料。

Material that cannot undertake high temperature.

Material that is easy to oxidize.

Material that do not permit to destruct.

To recover material with residual volatile.

Material with vigorous irritative and toxicity.

特点 Feature

▶ 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，随着容器的不断旋转，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。

▶ The machine can feed powder or granule into twin cone container through vacuum transmission or manual. With continuous rotation of container, material will make complex impactina motion in the container and reach to uniform mixing.

▶ Energy saving, easy to operate, low labor strength, high work efficiency.

技术参数 technical parameter

项目 Item	型号Model	SZG-100	SZG-350	SZG-500	SZG-750	SZG-1000	SZG-1500	SZG-2000	SZG-3000	SZG-4500
总容量 Total volume	L	100	350	500	750	1000	1500	2000	3000	4500
工作容积 Working volume	L	50	175	250	350	500	750	1000	1500	2250
加热面积 Heating area	M ²	1.16	2	2.63	3.5	4.61	5.58	7.5	9.6	13.8
转速 Rotating speed	Rpm	6	6	6	6	6	6	6	4	4
电机功率 Power	Kw	0.8	1.5	1.5	2	3	3	4	5.5	7.5
回转高度 Height offrame roating	mm	1750	2100	2250	2490	2800	2940	2990	3490	4150
罐内设计压力 Designed pressure in contanier	Mpa	-0.1-0.15								
夹层设计压力 Designed pressure in interlayer	Mpa	0.3								
总重量 Total weight	Kg	800	1100	1200	1500	2800	3300	3600	6400	7500

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其他干燥
Other drying

DW 单层带式干燥机

DW single-layer mesh-belt dryer



概述 Summary

该机是穿流连续式干燥设备，用于透气性较好的片状、条状、颗粒状物料的干燥，对于脱水蔬菜、中药饮片等类含水率高、而温度不允许高的物料尤为合适；该系列干燥机具有干燥速度快、蒸发强度高、产品质量好的优点，对脱水滤饼状的高状物料，需经造粒或制成棒状后亦可干燥。

This machine is a continuous penetrating flow drying equipment applied for drying pieces strip and particles state materials with good ventilation. The machine is suitable for the materials such as dewatering vegetable, herbal medicine of traditional Chinese medicine and others, for which the water contents are high and high drying temperature is not high. The machine owns the advantages, of fast drying speed, high evaporation capacity and good product quality. The de-watered & filtered cake state paste material should be made into particles or strips before drying process.

应用 Application

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。

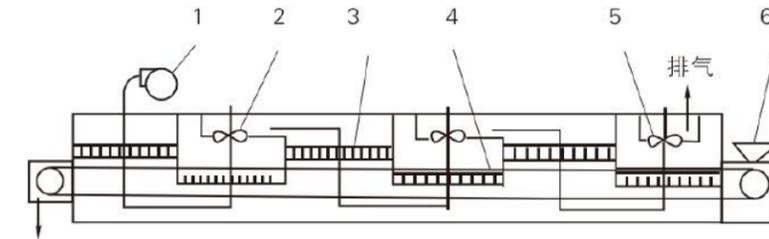
De-watering vegetable, particle feed, gourmet powder, shredded coconut stuffing, organic plastic, compound rubber, acral fibre, medicine product, medicine material, small wooden product, plastic product, aging and solidification for the electronic component and device.

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, material from the top to the bottom or from the bottom to the top and this will complete the heat and mass transfer process. This process will bring water 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.

- R&D
- 制粒 GRANULATING
- 清洗 CLEANING
- 混合 MIXING
- 转序 CONVEYING
- 配料 DOSING
- 干燥 DRYING



- 1、送气风机
- 1. inter air blower
- 2、循环风机
- 2. circulation air blower
- 3、蒸汽加热器
- 3. steam heater
- 4、输送带
- 4. transmission belt
- 5、排气风机
- 5. air exhaust fan
- 6、加料斗
- 6. feeding hopper

特点 Feature

- ▶ 可以调节空气量、加热温度、物料停留时间及加料速度以取得最佳干燥效果。
- ▶ 设备配置灵活，可使用网带冲洗系统及物料冷却系统。
- ▶ 大部分空气循环利用，高度节省能源。
- ▶ 独特的分风装置，使热风分布更加均匀，确保产品品质的一致性。
- ▶ 热源可采用蒸气、导热油、电或燃煤（油）热风炉配套。

- ▶ It is possible to adjust the air volume, heating temperature, material residence time, and feeding speed to achieve the best drying effect.
- ▶ The equipment configuration is flexible and can use mesh belt flushing system and material cooling system.
- ▶ Most of the air is recycled, highly energy-efficient.
- ▶ The unique air distribution device ensures a more even distribution of hot air and consistency in product quality.
- ▶ The heat source can be matched with steam, thermal oil, electricity or coal-fired (oil) hot air stoves.

技术参数 technical parameter

项目 Item	型号 Model	DW-1.2-8	DW-1.2-10	DW-1.6-8	DW-1.6-10	DW-2-8	DW-2-12
单元数 Unit number		4	5	4	5	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	12
铺料厚 Thickness of the material	mm	10~80					
使用温度 Temperature	°C	60~130					
蒸汽压 Steam pressure	Mpa	0.2~0.8					
蒸汽耗量 Steam consumption	kgsteam/kgH ₂ O	2.2~2.5					
干燥强度 Drying strength	kgH ₂ O/h	6~20kg/m ² ·h					
风机总功率 Total power of the blower	kw	3.3	4.4	6.6	8.8	12	16
设备总功率 Total power of the equipment	kw	4.05	5.15	7.35	9.55	13.1	17.1

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