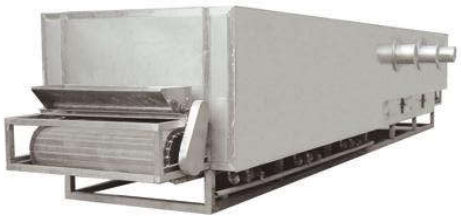
DW 系列带式干燥机
DW Belt Dryer



满足工艺要求是设备的最终目标，我们可以提供符合各种工艺要求的非标设备。

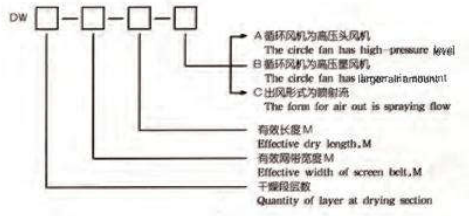
It is final target for equipment to meet the requirement of technology.

We can provide all kinds of non-standard equipment that can meet various requirements of techology.

用 途 Application

带式干燥机是常用的连续式干燥设备，可广泛应用在化工、食品、医药、建材、电子等行业，特别适合于透气较好的片状、条状、颗粒状物料的干燥，对滤饼类的膏状物料，也可通过造粒机或挤条机制成型后干燥。

The belt drier is an ordinary continuous drying equipment.It is widely used for chemical industry,foodstuff industry,pharmaceutical industry,construction materials industry,electronics industry and so on.Especially it is suitable for drying raw materials that are good in breath ability and have the shape of pieces or strip of granule.It is also possible the pasted raw material such as filter cake after shaped through granulator or extruder.



概 述 Summary

将要处理的物料通过适当的布料机构，如星型布料机、摆动带、粉碎机或造粒机，分布在输送带上，输送带通过一个或几个加热单元组成的通道，每个加热单元均配有空气加热和循环系统，每一个通道有一个或几个排湿系统，在输送带通过时，热空气从上往下或从下往上通过输送带上的物料，从而使物料能均匀干燥。

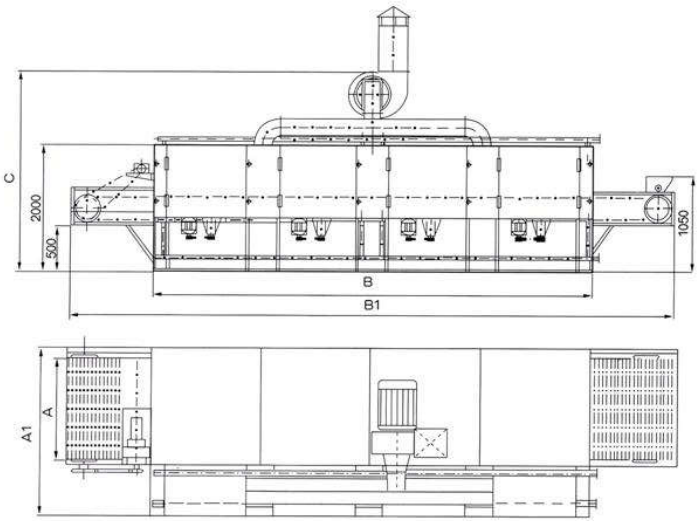
The raw material should be distributed on the conveyer belt through suitable machanism such as star distributor,swing belt,crusher or granulator.The conveyer passes through the channel consisting of one or several heating unit.Each heating unit is equipped with air heat and circle system.Each channel has one or several damp discharge systems.When the conveyer passes through it ,hot air will pass through the raw material from up to low or from low to up.In this way the raw material can be dried evenly.

典型产品 Typical Products

脱水蔬菜、颗粒饲料、味精、鸡精、椰蓉、有机颜料、合成橡胶、丙烯纤维、药品、药材、小木制品、塑料制品、电子元器件老化、固化等。

Dehydrated vegetable,feed granule,monosodium glutamate, chicken extraction,organic pigment,synthetic rubber,propylene fiber,medicines,small wood products,plastic,aging and solidifying of electrical elements.

DW 系列带式干燥机
DW Belt Dryer



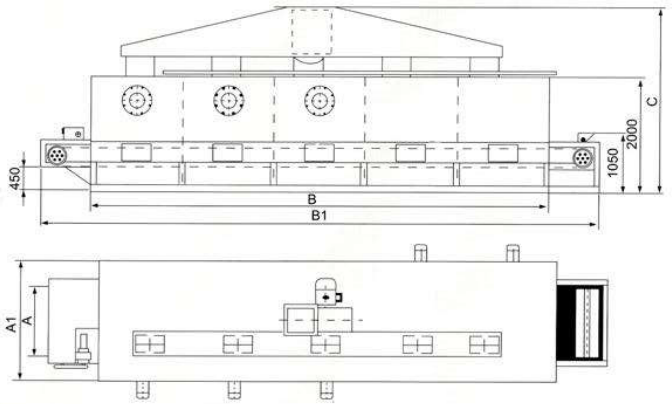
DW–A 型带式干燥机　Model DW–A belt drier

技术参数 Technical parameters

型号 Model		DW-1.2-8A	DW-1.2-10A	DW1 .6-8A	DW-1.6-10A	DW-2 .0-8A	DW-2.0-10A
单元数 quantity of unit		4	5	4	5	4	5
干燥段长length of drying section		8M	10M	6M	10M	8M	10M
铺料厚度 thickness of raw material spreading		<=60mm					
使用温度operation temperature		50-140℃					
蒸汽压力 steam pressure		0.2-0.8MPa					
蒸汽耗量 steam consume		120-300	150-375	150-375	170-470	180-500	225-600
干燥时间 drying time		0.2-1.2h	0.25-1.5	0. 2-1.2	0.25-1.5	0. 2-1.2	0 .25-1.5
干燥强度 drying strength		6-30Kg 水/m^3h					
装机功率 power equipped		11.4KW	13.6KW	11.4KW	13.6KW	12.5KW	14.7KW
外形尺寸 Overall dimensions	A	1.2m	1.2m	1.6m	1.6m	20m	2.0m
	A1	2.28m	2.28m	2.68m	2.68m	3.2m	3.2m
	B	8.0m	10.0m	8.0m	10.0m	8.0m	10.0m
	B1	9.5 m	11. 5m	9. 5m	11.5m	9.5m	11.5m
	C	2.5m	2.5m	2.5m	2.5m	2.6m	2.6m

说明：以上参数仅供参 ，干燥强度与物料特性、使用温度等因素有关。蒸汽耗量为kg/H
Explanation: the parameters above mentione is for reference only, The dry strength is concerned with many factors such as properties of raw material, operation temperature. The steam consume is kg/hr.

DW 系列带式干燥机
DW Belt Dryer



DW–B 型带式干燥机 Model DW–B belt drier

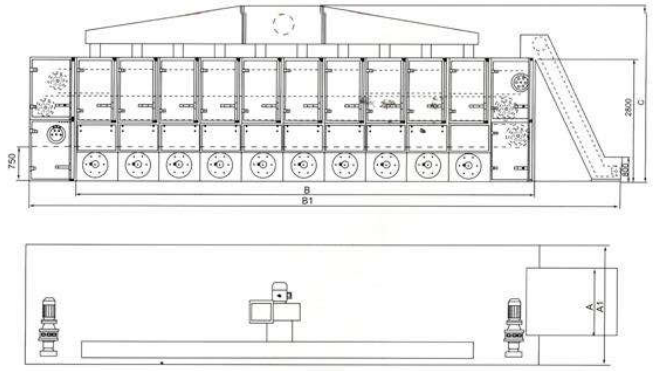
技术参数 Technical parameters

型号model		DW–1.2–8B	DW–1.2–10B	DW–1.6–8B	DW–1.6–10B	DW–2.0–8B	DW–2.0–10B
单元数 quantity of unit		5	6	5	6	5	8
干燥段长length of drying section		8M	10M	8M	10M	8M	10M
辅料厚度 thickness of raw material Spreading		<=60mm					
使用温度 operation temperature		50–140℃					
蒸汽压力 steam pressure		0.2–0.8MPa					
蒸汽耗量 steam consume		120–300	150–375	150–375	170–470	180–500	225–600
干燥时间 drying time		0.2–1.2h	0.25–1.5	0.2–1.2	0.25–1.5	0.2–1.2	0.25–1.5
干燥强度 drying strength		6–30Kg 水/m^2h					
装机功率 power equipped		13.6Kw	15.8Kw	13.6Kw	15.8Kw	14.7KW	16.9KW
外形尺寸 overall dimensions	A	1.2m	1.2m	1.6m	1.6m	2.0m	2.0m
	A1	1.95 m	1 .95m	2.33m	2.35m	2.75m	2.75m
	B	8.0m	10.0m	8.0m	10.0m	10.0m	10.0m
	B1	9.5m	11.5m	9.5m	11.5m	9.5m	11.5m
	C	2.5m	2.5m	2.5m	2.5 m	2.6m	2.6m

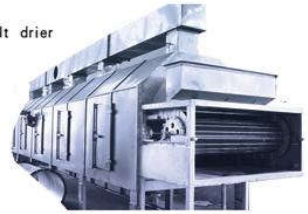
说明：以上参数仅供参考，干燥强度与物料特性、使用温度等因素有关。蒸汽耗量为 kg/H。

Note:the parameters above mentioned is for reference only.The dry strenth is concerned with many factors such as properties of raw material,operation temperature.The steam consumption is kg/hr.

DW 系列带式干燥机
DW Belt Dryer



DW3–B 型带式干燥机 Model DW3–B belt drier



技术参数 Technical parameters

型号model		DW–1.2–8B	DW–1.2–10B	DW–1.6–8B	DW–1.6–10B	DW–2.0–8B	DW–2.0–10B
单元数 quantity of unit		8	10	8	10	8	10
干燥段长length of drying section		24M	30M	24M	30M	24M	30M
辅料厚度 thickness of raw material Spreading		<=60mm					
使用温度 operation temperature		50–140℃					
蒸汽压力 steam pressure		0.2–0.8MPa					
蒸汽耗量 steam consume		240–550	300–750	300–750	340–950	350–1000	400–1200
干燥时间 drying time		0.2–1.2h	0.25–1.5	0.2–1.2	0.25–1.5	0.2–1.2	0.25–1.5
干燥强度 drying strength		6–30Kg 水/m^2h					
装机功率 power equipped		21.7Kw	26.1Kw	21.7Kw	2702Kw	29.2KW	35.2KW
外形尺寸 overall dimensions	A	1.2m	1.2m	1.6m	1.6m	2.0m	2.0m
	A1	2.1m	2.1m	2.8m	2.8m	3.2m	3.2m
	B	8.0m	10.0m	8.0m	10.0m	8.0m	10.0m
	B1	12.5m	14.5m	12.5m	14.5m	12.5m	14.5m
	C	3.5m	3.5m	3.5m	3.5 m	3.6m	3.6m

气流干燥设备
Flash Dryer

四大系列 4 Series

气流干燥又称瞬间干燥，我国从六十年代起开始在制药化工行业应用。其基本形式由以下四大系列：

Q 系列 基本型　　QG 系列 风机兼分散器型
FG 系列 尾气循环型　JG 强化型

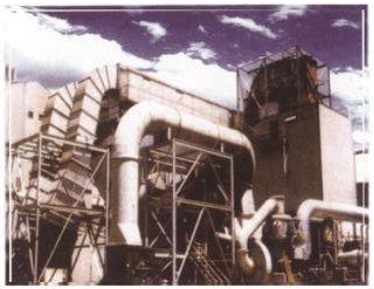
Falsh dryer is also called momentary dryer.since 1960's it is applied at pharmaceutical and chemical industry.it has four basic series as follows:

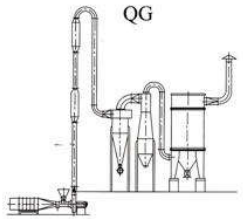
Qseries:basic type; QGseries:fan and distrboutor type;
FG series:tailgas circle type; JG series:reinforce type.

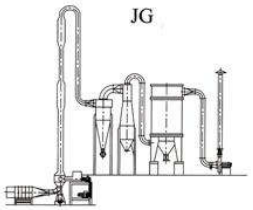
技术咨询及试验 Technical consultation and test

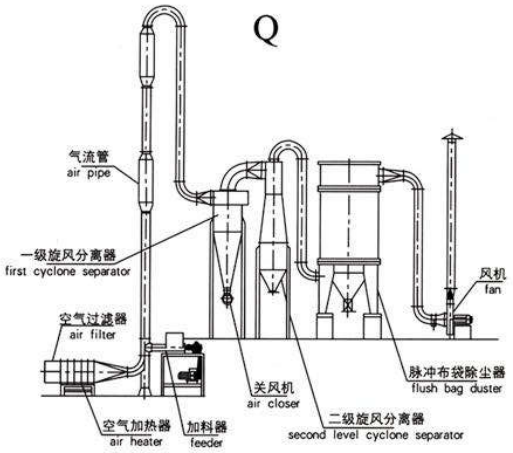
气流干燥是一种批量大、热效率较高的快速连续瞬间干燥设备，虽然其适用于多种物料的干燥，但由于物料性质差异较大，为了使广大用户能够选择到最佳的干燥设备，我公司免费技术咨询，提供安装布置图，进行物料试验。

Flash dryer is a quick,continuous and momentray dryer with large batch and high heat effciency.Though it can suit for different raw materials,as there' s large difference among raw materials,in order to make customers choose their expected drying equpment,we will provide installation and arrangement drawing and materials test free of charge.







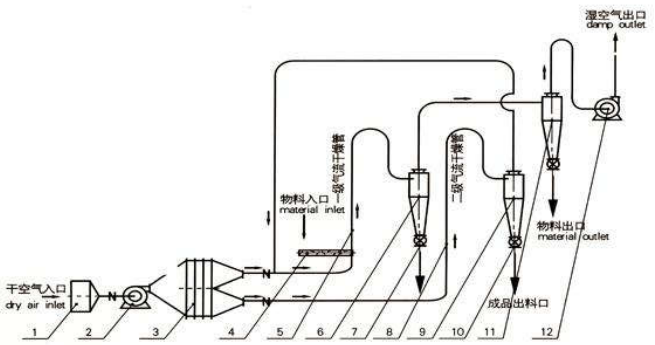


技术参数 Technical parameters

型号 model	蒸发水份 evaporated moisture （kg/h）	装机功率 equipped power (kw)	占地 Occupied area（m^2）	高度 Height（m）
Q50	50	6.25（8.25）	20	9
QG50	50	6.25（8.25）	20	9
JG50	50	9.25（11.25）	20	9
Q100	100	8.6（11.6）	32	11
QG100	100	8.6（11.6）	32	11
JG100	100	16.1（19.1）	32	11
Q250	250	20(27.5)	64	16
QG250	250	20(27.5)	64	16
JG250	250	31（38.5）	64	16
Q500	500	33(48)	96	16
QG500	500	33（48）	96	16
JG500	500	48（58）	96	16
Q1000	1000	63（78）	120	16
QG1000	1000	63（78）	120	16
JG1000	1000	78（98）	120	16

注：装机功率一栏括号中为配布装除尘器时功率。
Note:the date in the bracket at the line of equipped power will be the power of bag filter.

气流干燥设备
Flash Dryer



1、初效过滤器
2、鼓风机
3、蒸气加料器
4、螺旋加料器
5、一级气流干燥管
6、一级旋风分离器
7、关风机
8、二级气流干燥管
9、二级旋风分离器
10、关风机
11、除尘器
12、引风机

1.Primary effect filter
2.Inlet fan
3.Steam heater
4.Spiral feeder
5.Primary dry pipe
6.Primary cyclone separator
7.Air closer
8.Secondary dry pipe
9.Secondary cyclone separator
10.Air closer
11.Duster
12.Exhaust fan

FG 系列气流干燥工艺流程图　Process chart of FG series air stream drier

技术参数　Technical parameters

型 号model	FG0.25	FGO.5	FGO.9	FG1.5	FG2.0	FG2.5	FG3.0	FG3.5
蒸发水份 evaporated moisture (kg/h}	113	225	450	675	900	1125	1150	1491
功率配备equipped power(kw)	8.25	16.1	30	50	75	90	110	110
占地面积 Pccupied area (m^2)	3.5x2.5	7X5	7×6.5	8x7	11x7	12×8	14X10	14x10
热效率 Thermal efficiency (%)	>80	>80	>80	>80	>80	>80	>80	>80

注：表中水份蒸发量是以玉米淀粉，初水份 40%，终水份 13.5%，进风温度 20℃时测定。
Note:the amount of evaporated moisure is starch of corn.It is tested when the primary 40% and the final moisture 13.5% and the temperature of air inlet is 20℃

XSG 型旋转闪蒸干燥机
XSG Flash Dryer with Agitation

工作原理　Principle of work

热空气由进风口经环隙高速旋转地进入搅拌粉碎室内。大颗粒、较大较湿的颗粒团在搅拌室内被机械粉碎，并受到离心、剪切、碰撞、磨擦等作用进一步被微粉化，降低颗粒的湿含量，增加颗粒蒸发面积，湿含量较低、颗粒度较小的颗粒被旋转气流夹带上升，在上升过程中进一步干燥。由于气固两相作用旋转流动，固相惯性大于气相，固气两相间的相对速度较大，强化两相间的传热传质，所以该机干燥强度高。

Hot air enters to stirring and drying chamber from the air inlet with high speed.The large and damp ball is crushed under the action of strirer and paddle wheel exerts strong centrifuge,shearing,impacting and rotating effect to it .The contain less moisture will lift accompanied with revolving air stream.During the period of lifting,it is dried further.Because gas and solid flowing and the inertia of solid phase is more than that of gas and the relative velocity between solid and gas phases is large,so it strengthens the process of heat exchange.Therefore the machine has strong drying capacity.

概 述 Summary

XSG 系列旋转闪蒸干燥机是我厂消化和吸收国外的先进技术，改进研制的用来干燥膏粘状、滤饼以及粉料状等物料的新型干燥设备。本厂设有先进实验室，可以为用户代做各种物料干燥试验，提供试验数据和协助选型。

XSG flash dryer with agitation is new style drying equipment that is improved and researched and manufactured by us on the basis of absoring advanced abroad technology.It is used for drying raw material such as paste,filtering cake,powder and so on.We have superior laboratory where can take test with different raw materials for customer providing test data and help customer to choose suitable model.

特 点 Features

1. 由于物料受到离心、剪切、碰撞、磨擦而被微粒化呈高度分散状态，且气固两相间的相对速度较大，强化了传质传热，使该机干燥强度高。
2. 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。
3. 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。
4. 由于干燥室内周向气速高，物料停留时间短，达到高效、快速，小设备大生产。
5. 干燥室内设置旋流片，以控制物料水份达到极低水平。
6. 干燥室上部分散器可以控制出口物料的粒度及湿度。

1. Raw material becomes particulate that exists in high dispersing state caused by centrifuge,shearing,impacting and rubbing effect. Moreover the relative speed between solid and gas phases is large,so it strengthens the process of heat exchange.Therefore the maching has strong drying capactity;
2. Dry gas enters into the bottom of drier and produces strong rotating air stream that exerts strong rushing effect to raw material on the wall,therfore the phenomenon of adhesive wall is removed;
3. At the bottom of drier,where is high temperature area,heat sensitivituy raw material can not contact with heat surface directly, therefore it solves the coked and changed color problems of heat sensitive raw material;
4. Because gas speed at circle inside the drying chamber is high and the dwell time of raw material is short,high efficiency and quick speed can be realized.It is possible for small equipment to carry out large-scale production.
5. There are rotational flow pieces inside the drying chamber.It is used to control the moisture of raw material to the lowest level;
6. The distributor at the top of drying chamber can control the size and moisture of granule to the discharged.

XDT 系列滚筒干燥机
XDT Tumble Dryer with Scrapper

应用范围 Applicable Field

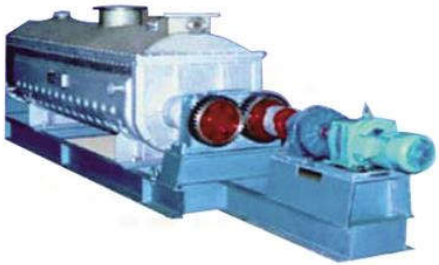
酵母、抗菌素、乳糖、淀粉浆、亚硝酸钠、染料、蒸馏废液、硫化蓝、硫化元、轻质碳酸钙、苯甲酸钠、三盐基硫酸铝、葡萄糖、草酸、煤粉、味精、立德粉、增白剂、直接元青、重碱、拉开粉、电玉粉、碳酸氢钠、盐基锌、硫酸铬、骨胶、活性炭、硫化青、醋酸钙、硫酸铜、全乳、脱脂乳、A－淀粉、动物胶、乳清、丹宁萃取液、染料直接黑、染料普鲁士蓝、牛奶、植物胶、亚砷酸钙。

Yeast, antibiotics, lactose, starch slurry, sodium nitrite, dyes, distillation waste liquid, vulcanizing blue, sulphur black, light calcium carbonate, sodium benzoate, tribasic aluminum sulfate, glucose, oxalic acid, coal powder, monosodium glutamate, lithopone, whitening agent, direct black, sodium bicarbonate, nekal BX, urea–formaldehyde molding powder, sodium bicarbonate, salt base zinc, chromium sulfate, bone glue, activated carbon, sulfide black, calcium acetate, copper sulfate, whole milk, defat milk , a–starch, gelatin, whey, tannin extract, dyes direct black, dye Prussian blue, milk and vegetable gum, calcium arsenite。

技术参数 Technical parameters

规格 Specifications	1.5	3	4	5	6	7.5	10	14
干燥面积 Dry areas(M^2)	1.5	3	4	5	6	7.5	10	14
使用压力 The use of pressure(Mpa)	0.79	0.79	0.79	0.79	0.79	0.79	0.7	0.7
筒体直径 The diameter of the cylinder diameterΦ(mm)	500	800	800	800	1200	1200	1500	1500
筒体长度 Barrel length L (mm)	500	1200	1600	2000	1600	2000	2200	3000
长 Long A (mm)	2500	3350	3500	4320	4000	4320	4950	5750
宽 Width B (mm)	1500	2000	2000	2000	2750	2750	3250	3250
高 HighC (mm)	750	3000	3500	4000	4500	4500	6500	6500
功率 Power (kw)	5.5	7.5	11	15	18.5	22	30	55

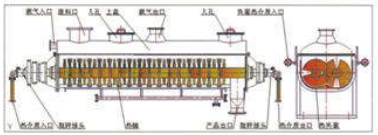
空心桨叶式干燥机
Paddle Dryer



工作原理 Work principle

空心桨叶式干燥机是一种传导加热的低速搅拌型干燥机。在干燥器筒体上设置夹套，空心轴上设置空心桨叶，在其中通热载体，湿物料在搅拌桨叶的搅拌下筒体及桨叶热表面进行充分热交换，以达到干燥的目的。

Paddle Dryer is a kind of mixing dryer low speed by conducting heating.There is jacket layer on the tube of the dryer and hollow blades on the hollow axle in which hot carrier is passing through.Wet materials will make heat exchange with the heating surface of the tube and the blades when it is mixed by the blades so as to reach dry.



特 点 Features

结构紧凑，传热面积大，占地面积小，干燥时用气量小，粉尘少桨叶相互作用具有自净功能，能使物料停留时间长，填充系数高。

Compact structure,large area of heat conducting,small occupied space,less air consumption during and less dust.Blades have self-cleaning function by their interaction and materials have longer dweling time and high filling conficient.

应用范围 Scope of application

该机适用于处理各种膏糊状，粒状粉状等热稳定性好的物料，在特殊条件下也可干燥热敏性物料及在干燥过程中回收溶剂。加热介质可采用蒸汽，热水，热油等。典型干燥物料有：碳黑，碳酸钙，石膏，粘土，尼龙和聚脂片，聚乙烯，聚丙烯等。

This dryer is suitable to dry various kinds of paste,granules and powder materials which have good heat stability, and can dry heat sensitive materials under special conditions.Solvent can be retrieved during the process of drying and heating medium can be steam,hot water, hot oil ect. Typical materials to be dride are; carbon black, calcium carbonate, plaster, clay, nylon and polyester slices, polyethlene, polypropylene etc.

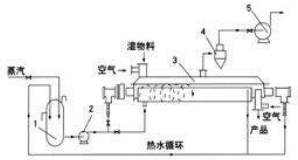


图 1 以热水为加热介质的流程

1－热水槽 2－水泵 3－桨叶干燥器 4－除尘器 5－引风机

Figure 1 Flowchart with hot water as heating medium

1 not water tank 2 water pump 3 blade dryer 4 dust-remover 5 exhaust fan