

DW Single-layer Mesh-belt Dryer
DW 系列单层带式干燥机



概述 Description

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，对脱水滤饼状的膏状物料，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.

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.



特点 Features

- ◇ 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。

- ◇ Amount of air, heating temperature, time of material stay on the belt and velocity of feeding material can be adjusted in order to obtain the best drying effect.
- ◇ Equipment's configuration is very flexible. It can use the netlike belt washing system and cooling raw material system.
- ◇ Hot air can be circularly applied, the energy is greatly saved.
- ◇ Unique air dividing device, it makes hot air distribute uniformly; this can guarantee products' quality.
- ◇ Heating source can be selected from steam, conducting heat oil, electricity, coal furnace and oil burner.

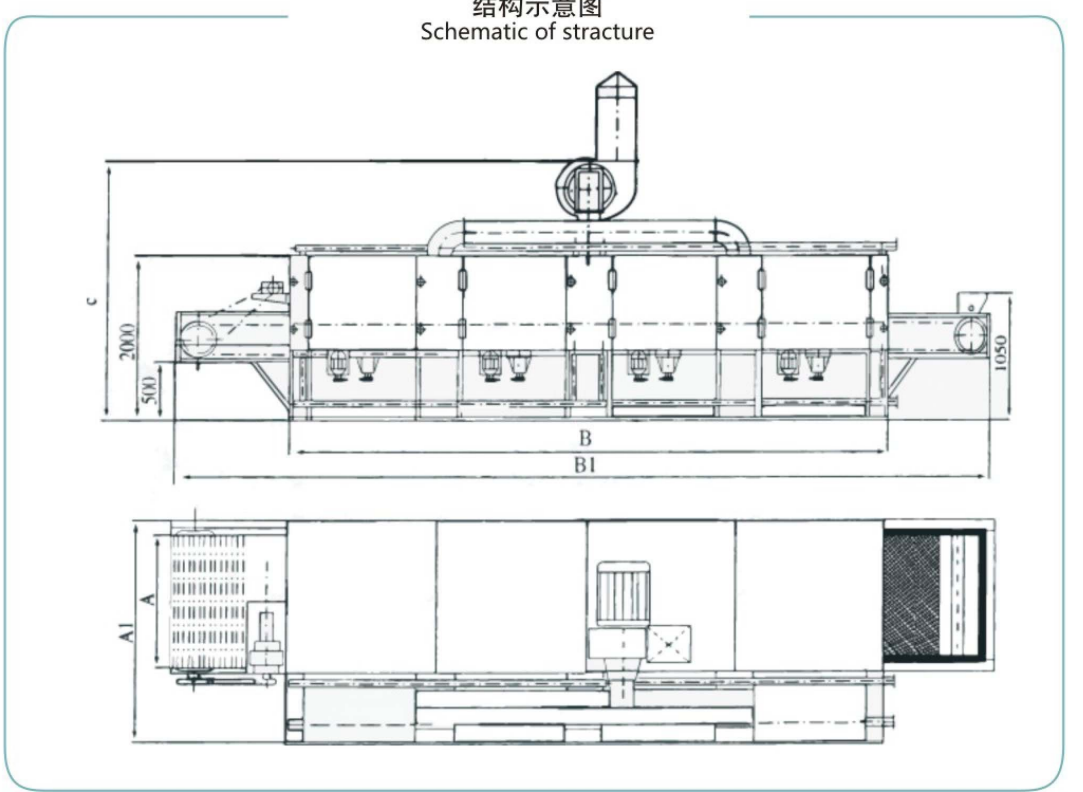


应用 Application

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.

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技术参数 Technical parameters

型号 spec	单位 unit	DW-1.2-8	DW-1.2-10	DW-1.6-8	DW-1.6-10	DW-2-8	DW-2-10
单元数 unit number		4	5	4	5	4	5
干燥段长 drying section length	m	8	10	8	10	8	10
铺料厚thickness of the material	mm	≤60					
使用温度 temperature	℃	50 ~ 140					
蒸汽压力 steam pressure	Mpa	0.2 ~ 0.8					
蒸汽耗量 steam consumption	kgsteam/kgH ₂ O	120 ~ 300	150 ~ 375	150 ~ 375	170 ~ 470	180 ~ 500	225 ~ 600
干燥强度drying strength	kgH ₂ O/h	6-30					
装机功率power equipped	KW	11.4	13.6	11.4	13.6	12.5	14.7
外型尺寸 overall size	A	mm	1.2	1.2	1.6	1.6	2.0
	A1	mm	2.28	2.28	2.68	2.68	3.2
	B	mm	8.0	10.0	8.0	10.0	10.0
	B1	mm	9.5	11.5	9.5	11.5	11.5
	C	mm	2.5	2.5	2.5	2.5	2.6

注：部分参数设计时视不同物料有所调整，以设计为准。