

干燥机的工作原理 DRYER WORKING PRINCIPLE

- 物料由提升机经匀料装置匀料进入缓苏层，物料内部的水份逐步移向表层。分料层将物料均匀分布到干燥层，利用热风加热带出部分水分后，由回转阀排送到下部的螺旋送料器，再送往提升机，循环干燥至设定水分后排送到仓库。
- Material come through elevator into the tempering layer, on which inside water of material move to the surface. On drying layer, some moisture of material taken out by heating hot air, the material is sent to the lower screw feeder by the rotary valve, and then sent to the elevator drying cyclically up to set moisture and automatically delivered to storehouse.



在线电脑水分仪
MICROCOMPUTER ONLINE
GRAIN MOISTURE METER



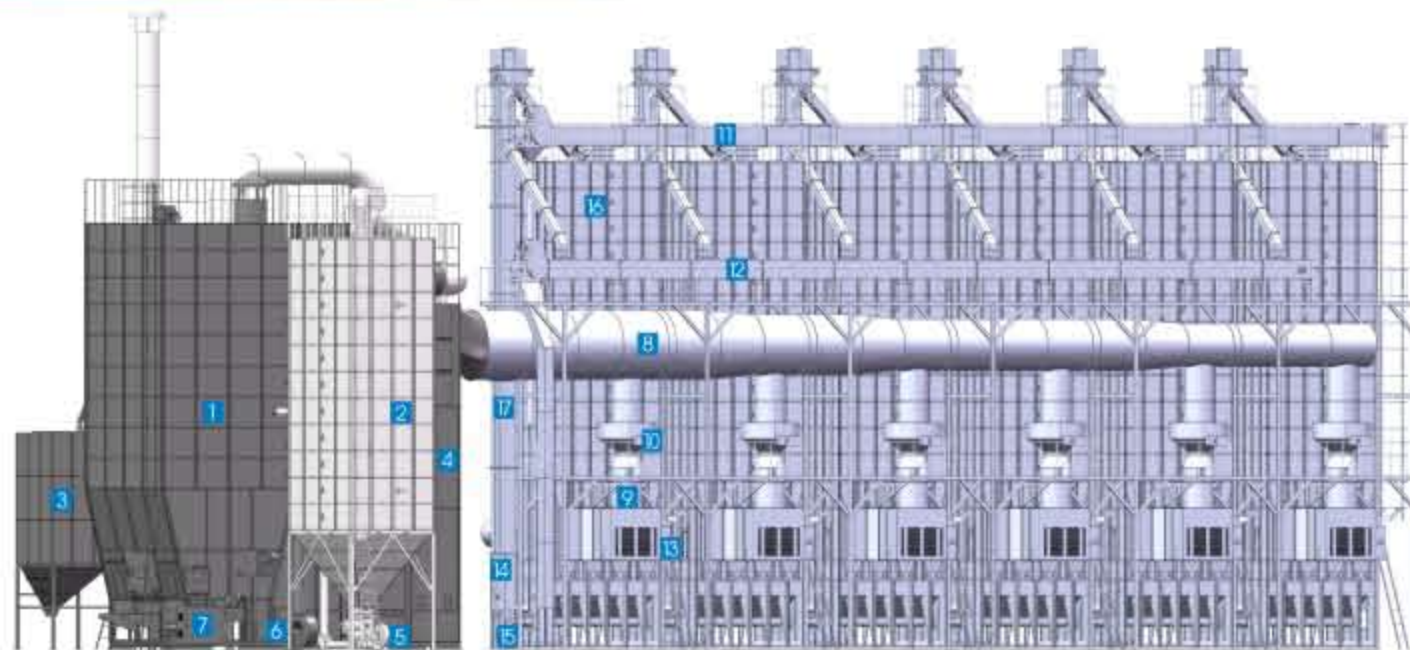
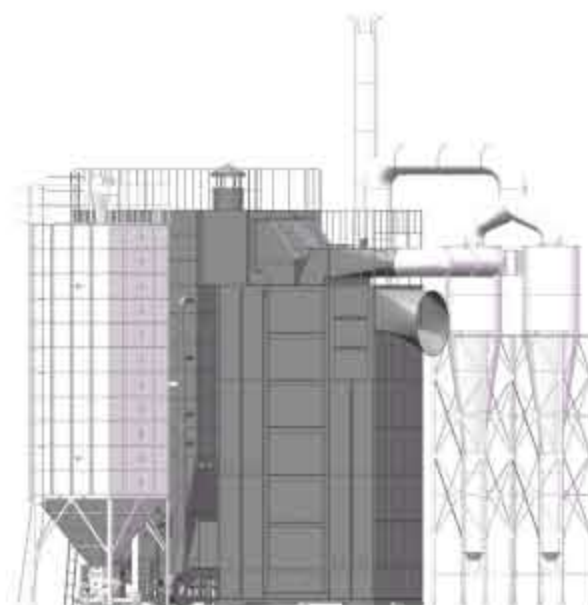
干燥机控制系统
DRYER ELECTRICITY
CONTROL SYSTEM



稻壳炉控制系统
STOVE ELECTRICITY
CONTROL SYSTEM

稻壳炉工作原理 RICE HUSK STOVE WORKING PRINCIPLE

- 储存在稻壳仓里的稻壳，由自动控制的风力输送机定量输送到稻壳炉内，点火后在助燃风机的作用下呈螺旋状态悬浮燃烧，未燃尽的稻壳沉降到底部焖烧层，在底部助燃风机的作用下继续燃烧殆尽，燃烧后的空气经热交换成洁净的热风供干燥机使用，烟气通过除尘系统排出；炉灰由自动排灰系统排出。
- When it is into the rice husk silo, husk is conveyed quantitatively to stove through wind by automatically controlled. After ignition, under the action of the combustion air blower, husk burns in a spiral suspension state, unburned rice husk settling to the burning layer of bottom keeping burning by means of combustion air blower of bottom; heat energy is converted through the heat exchanger into clean hot air for drying machine; flue gas is exhausted through the dust removal system via heat exchanger tubes; ash is discharged by the automatic ash removing system.



用户可根据干燥作业量，选择合适的稻壳炉，配合四至八台干燥机

The user can according to the drying of assignment, Choose the appropriate rice husk stove, Cooperate with four to eight sets of drying machine.

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|--------|----------|------------|------------|----------|
| 1 稻壳炉 | 5 稻壳输送风机 | 9 热风进风风机 | 13 干燥机控制柜 | 17 稻谷提升机 |
| 2 稻壳仓 | 6 助燃风机 | 10 热风温度控制器 | 14 在线电脑水分仪 | |
| 3 炉灰仓 | 7 稻壳炉控制箱 | 11 进料刮板机 | 15 水分检测 | |
| 4 热交换器 | 8 热风输送主管 | 12 出料刮板机 | 16 干燥机 | |

- 干燥成本低，高效、节能；稻壳是免费能源，干燥成本只有燃油燃煤机的1/4-1/6，也远低于人工晒谷干燥方式。
- 干燥效果好，清洁、环保；采用间接热风干燥，清洁的热风不污染米质。传统的燃油燃烧机供热，在燃烧过程中会产生致癌的焦油，污染谷物，同时腐蚀干燥机及建筑物，危害健康及安全。
- 变废为宝，把有机废弃物转换成可利用的资源；每100公斤的稻谷约可以产生20公斤的稻壳，若稻壳处理不当，会造成严重的二次污染。转换成热能后，10吨稻谷的稻壳，可烘干约25~30吨稻谷，燃烧的灰可做工业保温材料、有机肥料或农用介质等。
- 自动化程度高，全自动；配备在线水分仪、谷物温度传感器、故障报警、满粮报警、过载报警、热继电器、热风温度传感器、过载保护装置和漏电保护装置等安全装置，微电脑控制，全自动，操作简单方便。

- Low cost, high efficiency and energy saving; Rice husk is a free energy source, and the cost of drying is only 1/4-1/6, which is much lower than that of drying grain in the sun.
- The drying effect is good, clean, environmental protection; The indirect hot air drying, with out pollution to rice. The traditional fuel burning heating, will produce carcinogenic tar in the combustion process to contaminate grain, corrode drying machines and buildings, harm to health and safety.
- Making waste profitable; to convert organic waste into utilizable resources Each 100 kg of paddy can produce about 20 kg of rice husk. If handled improperly, it will cause serious secondary pollution. Converted into heat, 10 tons of rice husk, can be used to dry about 25 to 30 tons of paddy, and burning ashes can also be treated as industrial heat insulator, organic fertilizer or agricultural media, etc..
- High degree of automation, full automatic; Equipped with online moisture meter, grain temperature sensor, fault alarm, full grain alarm, overload alarm, thermal relay, hot air temperature sensor, overload protection device and earth leakage protection device, microcomputer control, full automatic, simple and convenient operation.

干燥机

- 干燥过程科学合理，干燥效果最佳；采用低温干燥和自然冷却缓苏的调质干燥法，受热时间短，缓苏时间长，谷物温度不超过35℃，有效保护谷物品质不受损伤，最大限度降低了爆腰率和破碎率，干燥效果最佳，碎粒最少。本机进料采用分散装置将谷物自然分散，出料采用下料阀定量下料，干燥层采用网孔钢板分层导流，形成薄料层、多风道、大面积，配合大型斜流式高效风机大风量，有效保证谷物低温、均匀、快速干燥，既提高干燥速率又确保干燥后的谷物处于常温状态，品质优良。
- 自动化程度高，操作简单方便；配备在线水分仪、微电脑控制，全自动装置，具有热风、谷温、水分、自动监控、故障自动报警，自动循环、自动出料、自动停机等功能，操作简单方便，干燥中谷物含水率自动检测，避免过度干燥或干燥不足，确保谷物干燥后含水率均匀，可长期安全储存。
- 坚固耐用，使用寿命长；整机结构为负压吸引式，粉尘少、噪音低，干燥层采用不锈钢材质耐磨并抗腐蚀，可长期使用，特殊材料制成的蛟龙，转速慢、不伤稻谷、耐磨性佳、寿命长。

稻壳炉

- 稻壳进料过程自动控制，可轻松提高热能，配合单台或多台干燥机使用；计算机控制、人机接口的液晶屏幕显示，具有运转设定、操作控制及运转监视的功能，进稻壳、出灰、都实现全自动，只要一按自动燃烧按钮，就开始自动燃烧运转。实现了稻壳燃烧炉的智能自动控制。
- 多重安全设计；设有熄火检知(电眼)、热动电驿、风压开关、异常过热显示、全自动温度控制、全自动排热、排压、满料报警、异常指示、异常故障互锁、安全电缆线、控制保险丝等，确保运转安全。

DRYER

- The drying process is scientific and reasonable, and effect is the best; By a low-temperature drying and natural cooling tempering drying method (drying→tempering→drying→tempering), short heating time and long tempering time, effectively protect grain quality. Grain temperature does not exceed 35 degrees, maximally reducing the crack rate and broken rate to get the best drying effect and least broken. The feeding is forced dispersion by dispersing device, quantitative feedstock by feeding valve and circulated. Drying layers use steel plates with apertures to layering guide to form thin material layer, multi air channel, large area and big air volume with Inclined flow type high efficiency blower, effectively guaranteeing grain drying in low temperature, uniform and rapid, which can improve the drying rate and also ensure the dried grains in the normal temperature state, quality excellent.
- High degree of automation, easy and convenient operation; Equipped with on-line moisture instrument, microcomputer control, full automatic device, it can automatically monitor hot air, grain temperature and moisture and has functions of fault automatic alarm, automatic cycle, automatic feeding, automatic shutdown and so on. Operation is simple and convenient. Drying grain moisture content can be automatically detected to avoid excessive or insufficient drying and ensure dried grain moisture uniformity for long-term safe storage.

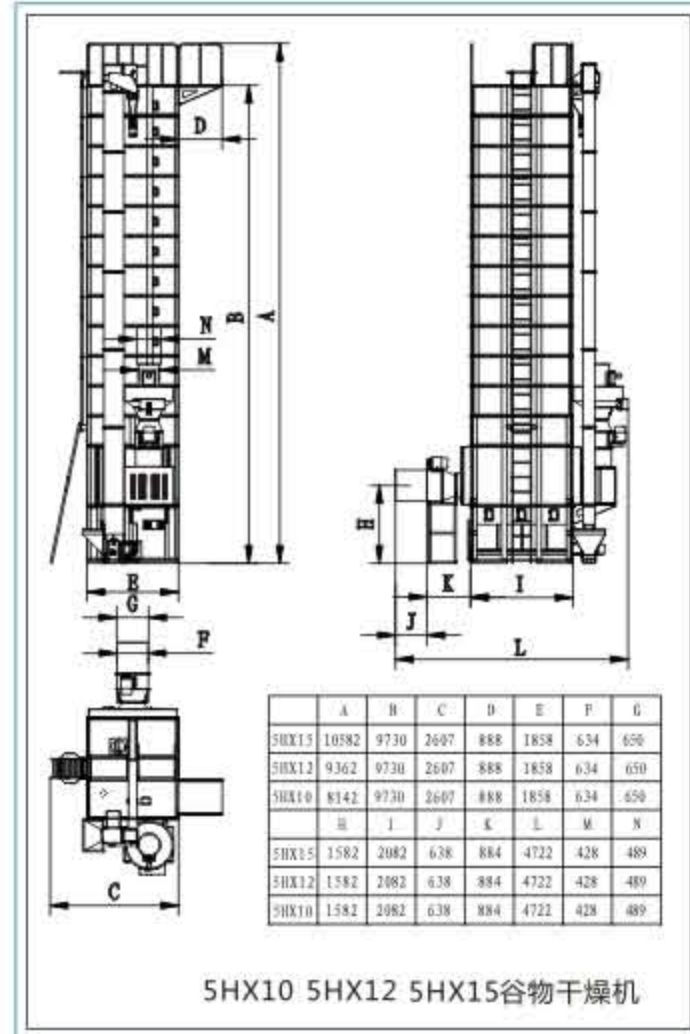
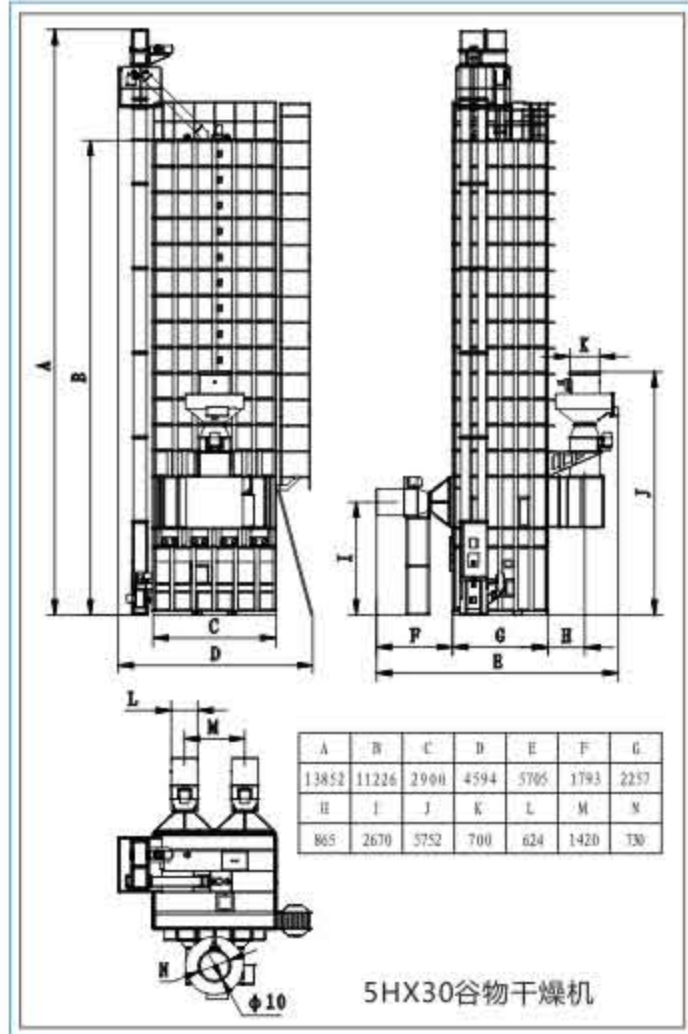
Strong and durable, long service life;

The structure adopts negative pressure suction, little dust, low noise, and stainless steel plates are wear resistance and corrosion resistance, for long-term use. Big auger made of special materials has functions of slow speed, not to hurt paddy, good abrasion resistance and long service life.

GRAIN SHELL STOVE

- With automatic control of the rice husk feeding, heat energy can be easily improved, working in with single or more drying machine. LCD screen display of man-machine interface and computer control, has the functions of operation setting, operation control and monitor. rice husks coming in and ashes out can all achieve full-automation, as long as press the auto combustion button, it began to automatic combustion operation, to realize intelligent automatic control of rice husk combustion stove.
- Multiple security design With stall test(magic eye), the rmal relay, pressure switch, abnormal overheating display, automatic temperature control, automatic heat exhaust, pressure exhaust, full material alarm, abnormal indication, abnormal fault interlock, security cable, control fuse, ensure safe operation.

外形尺寸 OVERALL DIMENSION



主要技术参数 MAIN TECHNICAL DATA

5HX系列谷物干燥机技术参数

项目	参数	型号	5HX30	5HX15	5HX12	5HX10
处理量	稻谷仓 (kg)		8000-30000	6000-15000	6000-12000	6000-10000
	全长 (mm)		4594	4722	4722	4722
	全宽 (mm)		5705	2500	2500	2500
	全高 (mm)		13852	10582	9362	8142
所需动力	额定电压		220V/380V	220V/380V	220V/380V	220V/380V
	输送及控制电机 (kw)		4.68+0.32	2.23+0.32	2.23+0.32	2.23+0.32
	排风机电机 (kw)		11.1	7.4	7.4	7.4
	排尘机电机 (kw)		0.4	0.25	0.25	0.25
	合计 (kw)		18.5	10.2	10.2	10.2
性能	进料时间 (min)		-60	-60	-58	-45
	出料时间 (min)		-70	-70	-60	-50
	降水率 (%/h)		0.5-1	0.5-1	0.5-1	0.5-1

5LD130/260稻壳炉技术参数

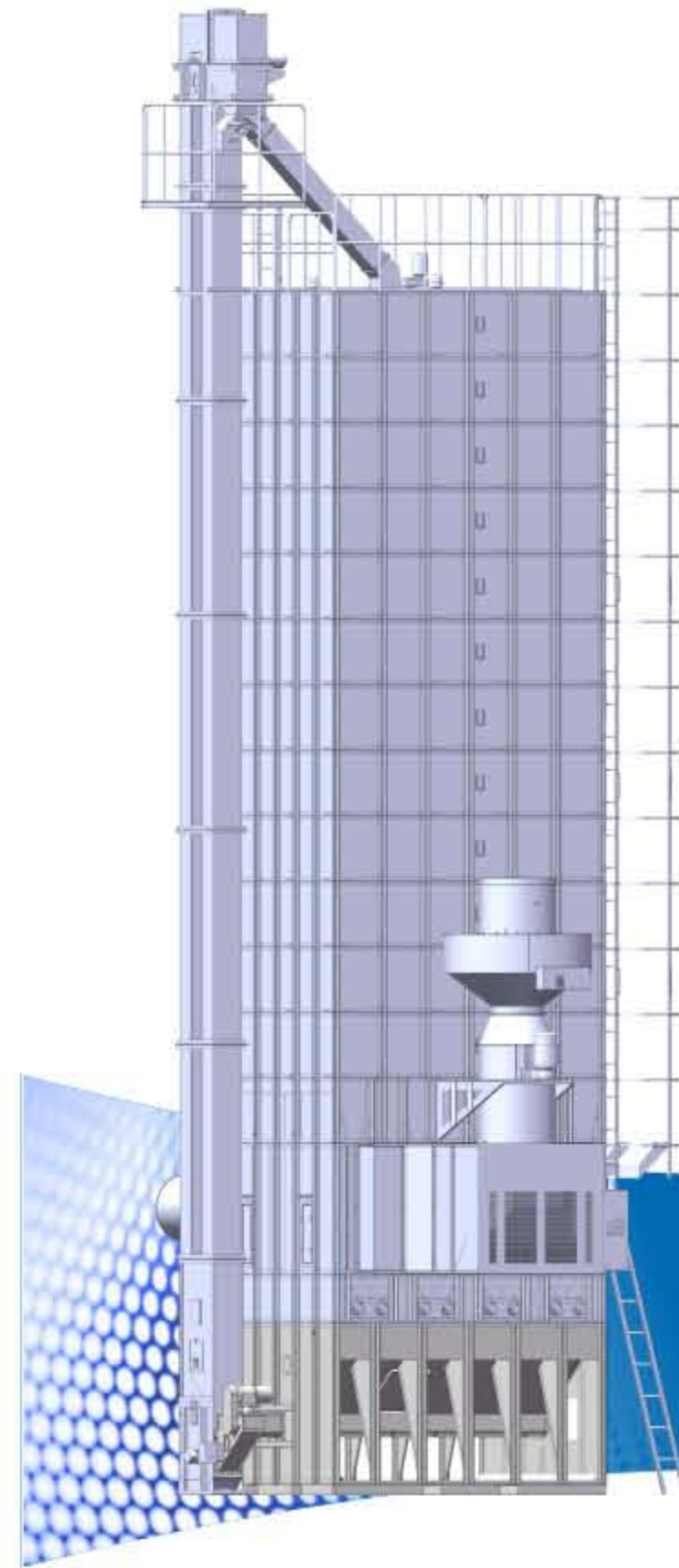
项目	参数	型号	5LD130	5LD260
处理量	总发热量 (kcal/h)		约130万 (1,300,000)	约280万 (2,800,000)
	稻壳燃烧量 (kg/h)		90-420	200-900
	灰渣排出量 (kg/h)		12-55	20-110
	所需动力 (kw)		19.7	29.6
本体尺寸 L×W×H (m)			6.703X4.282X9.367	8.618X5.280X11.403
	安全装置		热继电器、控制保险丝、火焰检知器、压力计、异常过热、回转检知、熄火检知	

本表所列之总发热量、稻壳燃烧量及灰渣排出量，会因实际所使用稻壳品种、含水率、灰分率而在所不同

产品技术参数如有变更恕不另行通知
If technologic data has been changed without further information



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5HX 系列谷物干燥机

SERIES GRAIN DRYER

高效 EFFICIENT

节能 ENERGY SAVING

清洁 CLEAN

环保 ENVIRONMENTAL PROTECTION

全自动 FULL-AUTOMATIC

湖北永祥粮食机械股份有限公司

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