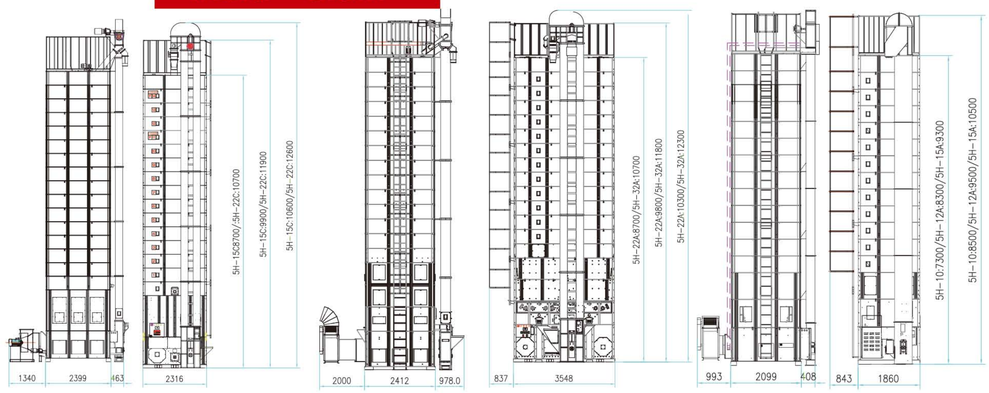
WORLD GRAIN DRYER

Multi Grain



PRODUCT ADVANTAGE

01 Adopt horizontal multi-slot drying section, grains are crisscrossed and circulated, heat exchange and evaporation are even and sufficient。

02 Stable control method to prevent grain deterioration

03 easy to installation because of low body size

04 Safe, reliable and easy to clean

05 choose a variety of fuels

06 Auomatic moisture detetor to prevent excessive drying。

07 Watery paddy and wheat can also be dried well。

08 The precipitation rate and hot air temperature are controlled by the computer, without manual setting

Model			5H-10	5H-12A	5H-15A
capacity	paddy(kg)		5000-10000	5000-12000	5000-15000
	wheat(kg)		5000-10000	5000-12000	5000-15000
weight（kg）			2349	2549	2749
dimension	L×W×H (mm)		3454×2026×8421	2855×2026×9540	2855×2026×10540
centrifugal blower	model		305E	305E	305E
	rate air volum(m³/h)		12000	12000	12000
Furnace （optional）	model		indirect heating（auto control）		
	ignition type		manual work		
	fuel consuption(kg/h)rice husk		17~23	23~25	35~45
	fuel		biomass、coal、natural gas、diesel、		
	voltage/rate		3phase 380V /50hz		
electric power	Total motor power(kw)		7.53	7.53	7.53
performance	feeding time	paddy(min)	40~60	40~60	40~60
		wheat(min)	40~60	40~60	40~60
	discharging time	paddy(min)	40~60	40~60	40~60
		wheat(min)	40~60	40~60	40~60
	treatment capacity(kg/h)		⩾700	⩾800	⩾850
	precipitation rate(%/h)		0.5~1.0	0.5~1.0	0.5~1.0
devices	safety device		full grain alarm, over temperature alarm, thermal relay, hot air temperature sensor, overload protection device, electric leakage protection device		
	standard device		Online moisture monitor, grain temperature sensor, fault alarm		

※技术参数仅供参考，一切以实物为准，如有变动，恕不另行通知。



Model	5H-15C	5H-22C
dry type	cycle drying	cycle drying
dimension（mm）	3070×2475×10500	3070×2475×12000
capacity（t）	15	22
precipitation rate（%/h）	0.5-1.0	0.5-1.0
drying sections /height（unit/mm）	1/1500	1/1500
holding capacity（m³）	29.12	39.7
height of slow section（mm）	5500	7500
temperature of hot air（℃）	55~75	55~75
hot air blower quantity	1	1
hot air blower model	505E	505E
hot air blower speed（r/min）	1455	1455
hot air blower pressure（Pa）	1100	1100
hot air blower flow（m³/h）	8000~15000	8000~15000
hot air blower motor power（kW）	7.5	7.5
furnace (optional) model	indirect heating（auto control）	
furnace (optional) ignition type	manual work	
furnace (optional) fuel consumption(kg/h)	35~45	50~70
furnace (optional) fuel	biomass、coal、natural gas、diesel	

Model	5H-15C	5H-22C
diacharging motor power（kW）	0.25	
hoister efficiency（t/h）	30	
hoister motor power（kW）	2.2	
total motor power（kW）	11.29	
safety device	Online moisture monitor, grain temperature sensor, fault alarm, full grain alarm, over temperature alarm,thermal relay, hot air temperature sensor, overload protection device, electric leakage protection device	
standard device	Conveying system, grain discharge system, drying system, slow-down section, hoist, low-noise exhaust fan, automatic control system	

Model			5H-22A	5H-32A	5H-32D	5H-32E
dry type			cycle drying			
volume（m³）			39.56	55.38	55.38	55.38
capacity	paddy(kg)（560kg/m³）		5000-20000	5000-30000	5000-30000	5000-30000
	wheat(kg)（700kg/m³）		5000-20000	5000-30000	5000-30000	5000-30000
weight（kg）			6900	7500	8300	8300
machine size	L×W×H (mm)		3730×3140×10290	3730×3140×12290	3625×4486×13168	3625×4486×14440
case size	L×W×H (mm)		3500×2300×9290	3500×2300×11290	3440×3765×13084	3100×2100×12450
furnace (optional)	model		hot air stove			
	ignition type		manual work			
	fuel consumption		50~70kg/h（firewood）			
	fuel		biomass、coal、natural gas、diesel、			
centrifugal blower	model		305E	305E	CRF7.5S-4	CRF7.5S-4
	air volume(m³/h)		32000	32000	32000	32000
electric power	voltage/rate		3phase 380V /50hz			
	motoe power(kW)		16.61	16.61	19.11	19.11
performance	feeding time	paddy(min)	40~60	40~60	40~60	40~60
		wheat(min)	40~60	40~60	40~60	40~60
	discharging time	paddy(min)	40~60	40~60	40~60	40~60
		wheat(min)	40~60	40~60	40~60	40~60
	drying power(kg%/h)		⩾10000	⩾16000	⩾16000	⩾16000
	prepitation rate(%/h)		0.5~1.0	0.5~1.0	0.5~1.0	0.5~1.0
	handling capacity(kg/h)		⩾1000	⩾1600	⩾1600	⩾1600
devices	safety device		ull grain alarm, over temperature alarm, thermal relay, hot air temperature sensor, overload protection device, electric leakage protection device			
	standard device		Online moisture monitor, grain temperature sensor, fault alarm			

Advantage of grain dryer

1、Advantage of the lower body part



1）Grain dryer plate adopt high-strength steel plates. . The exterior is painted with a lacquer treatment, which is exquisite in appearance, corrosion-resistant and has a long service life.

2、Advantage of drying section

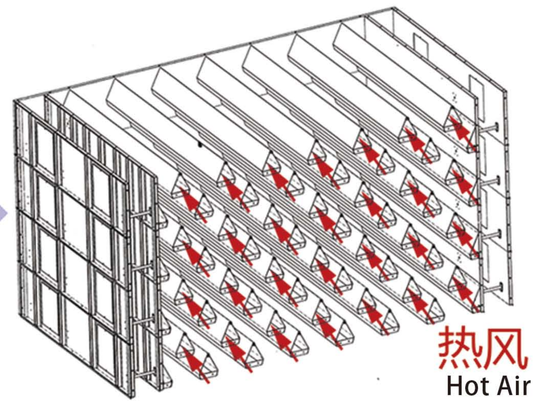
1）six groove drying section
The dry part of 5H-15C and 5H-22C , compared with the traditional dryer, the drying layer is thinner, making the grain heated more evenly and the drying efficiency is higher At the same time, it also has compact structure, high strength, Zero dead Angle, no residual and other characteristics.





2）eight groove drying section
5H-10, 5H-12A, 5H-15A, 5H-22A, 5H-32A adopt eight-groove Structure, compared with six groove, drying layer is thinner. Make grain heating more uniform, drying efficiency Higher. It also has compact structure and high strength Zero dead Angle, no residual and other characteristics.





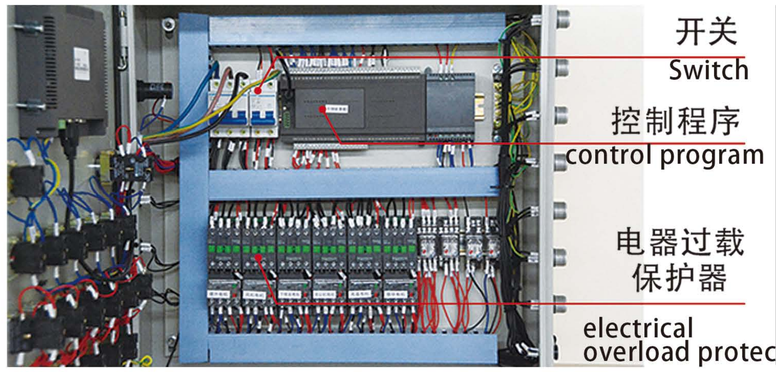
3）mixed flow drying section
The drying part of 5H-32E uses mixed flow drying part structure. Compared with the traditional cross flow type, the corner box structure without mesh is adopted, which is more suitable for drying corn and other crops.

3、Electrical system Advantages



1）Advantage of moisture mete.

Our dryer use the shizuoka moisture meter. This moisture meter adopts online resistance detection technology, digital signal is not disturbed, high accuracy, can ensure the error within 0.5%.
This moisture meter can be set by one key operation, convenient and quick.



2) Advantages of circuit control box

Circuit control box is divided into switches, control procedures, electrical overload The protector has three parts.
All imported parts.
PLC control System program, can achieve remote data transmission, fault code can be Convert to Chinese, easy to operate.
Large touch screen
With the traditional button, double insurance design, ensure the operation of the dryer Stability of the fluency of the turn.

3) Harness advantage

Wire harness adopts aviation plug technology. The electrical control cabinet is in Long-term use process is easy to enter the dust, will be internally Some electrical components are damaged and short circuit occurs.
Aviation plug has good sealing to ensure control Clean inside the cabinet, prolong the service life of electrical components.



4) Advantages of auger motor



German philander reducer motor, can be used continuously
Far more than domestic motor.
The fuselage is made of cast aluminum
Effectively reduce the temperature when the motor is running.
More stable, more
Reliable, low failure rate, long service life。

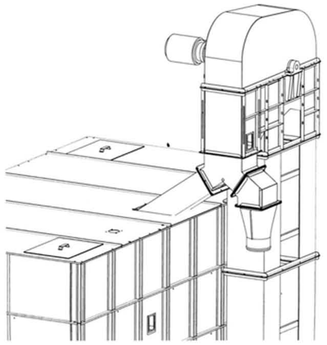


5）Material level meter
Adopt resistance rotary material level,durable,high reliability

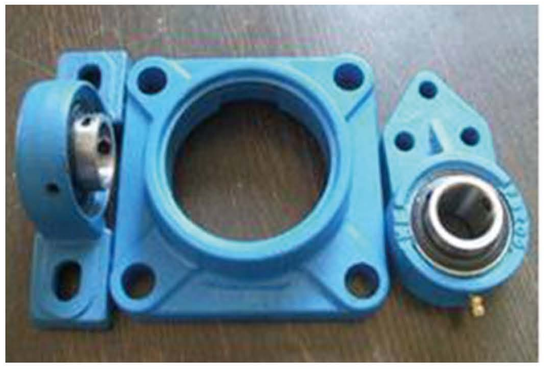
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4、Drive system Advantage





1) Advantages of slope diversion structure
5H-15C, 5H-22C, 5H-32A, 5H-32D, 5H-32E,
adopt slope diversion structure,
lower grain crushing rate。



2) Bearing advantages
Imported bearings of Well-known Japanese brands (NSK, FYH) are used, and the specifications are larger than ordinary domestic bearings. Smooth and stable operation, high overall strength, longer service life。



3) Swing advantage
Large dispersed plate, forced to average rice
Disperse to dry part to ensure drying quality
At the same time reduce the occurrence of bridge.
Using heat treatment process, durable, can Rely on high.

Furnace optional





1、Coal hot stove
Traditional furnace, low investment cost。



2、Diesel burner:
Compared with coal is more environmentally friendly, low price。

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3、Natural gas burner:
The use of clean energy,full combustion can achieve zero pollution,low cost。



4、Biomass furnace:
Low cost, small pollution, can automatically feed, save labor Cost, some areas to buy this furnace can enjoy subsidies。



5、Hot air stove:
Automatic temperature control, clean and pollution-free,
Small footprint,
saving labor costs,
No fire hazard,
but it's too hot outside
Low impact effect.



6、Rice husk burner:
Long service life, using rice husks as fuel,
The cost is very low,
automatic feeding saves Labor cost,
especially suitable for rice mills。

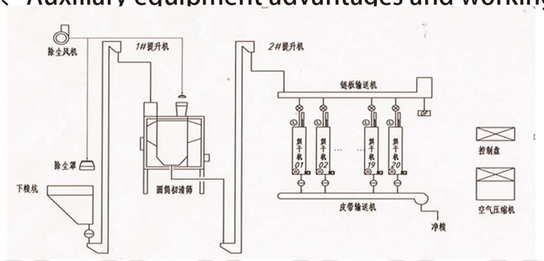
7、Fuel cost comparison

Furnace	Fuel cost
coal	0.01-0.02 RMB/KG
diesel	0.03-0.05RMB/KG
natural gas	0.012-0.02RMB/KG
biomass	0.01-0.02RMB/KG
hot air	0.008-0.012RMB/KG
rice husk	0.01-0.015RMB/KG

注:此成本仅供参考。

Auxiliary equipment optional

1、Auxiliary equipment advantages and working procedure



pour the grain into the sump → lift by no. 1 hoister → enter the cleaning screen for cleaning → lift by no.2 hoister → through the feed scraper → enter dryer through pneumatic gate

1. The whole set of equipment will be used to clean and remove miscellaneous grains before feeding to improve the cleaning of materials
And reduce the bridge rate of the dryer;

2. Automatic feeding and unloading of grain saves labor cost and improves work efficiency。

2、dust collector optional



Higher requirements for environmental protection Area, customer can choose this dust collectorl, dust removal effect is good,Less dust in drying workshop.

3、1-2 sets of optional suggestions

For the demand of 1-2 sets Dryer customer recommendations a hoist sinks。



As shown in the picture, the sinkhole of the hoist is 1 meter wide and 1.3 meters deep

4、3-6 sets of optional suggestions

position	parameter
grain sump	3*3*3 m size sump
hoister	TDTG36/28(30T/h)
cleaning sieve	TSCY125(30T/h)
scrape	TGSS(32T/h)
belt conveyor	TSG600(30T/h)


grain sump
3*3*3下粮坑


hoister
TDTG36/28提升机


cleaning sieve
TSCY125圆筒清选筛

For large cooperatives and rice factories, customer who need 3-6 dryers,customer are advised to use complete sets of auxiliary equipment.

5、6 sets of optional suggestions

position	parameter
grain sump	3*3*3 m size sump
hoister	TDTG43/28(50T/h)
cleaning sieve	TSCY150(50T/h)
scrape	TGSS32(50T/h)
belt conveyor	TSG600(50T/h)


grain sump
3*3*3下粮坑


hoister
TDTG43/28提升机


cleaning sieve
TSCY150圆筒清选筛

customer who need more than 6 dryers are recommended to adopt complete sets Auxiliary equipment.

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Grain dryer site planning

1、Ground requiremnt



1. The ground should be leveled professionally;
2. The foundation bearing capacity is the installed capacity of the purchased model plus 3 tons
(such as 15T machine, the ground must be able to bear more than 18 tons);
3. The drying room shall not be paved with flammable materials, and the floor shall be kept clean and dry;
4. The cement floor is 20-25cm thick.

2、Power requirement

1. The rated power supply of the dryer is three-phase four-wire 380V/50HZ. The 10T, 12T and 15T power cables are four cores and the cross-sectional area of each core wire is 6.0mm square, 20T and 30T
The power line has four cores and the cross-sectional area of each core is 8.0 square millimeters, and the length is within 10 meters. It is equipped with special leakage protection device, and the voltage change is ±10%.
2. Install the ground cable 65cm below the ground according to the regulations. Do not install it with other ground cables.

3、workshop requirement

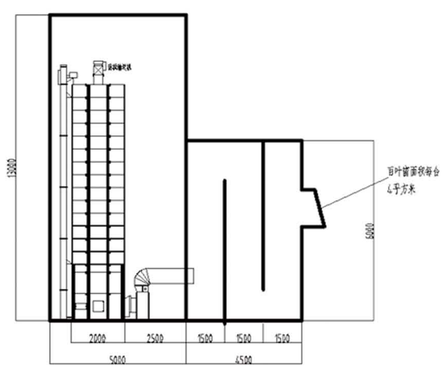
1. The dryer must be installed indoors;
2. The drying room should ensure a reasonable air intake;
3. No stacking of any items within 1 meter around the dryer;
4. The height of the drying room needs to be more than 1 meter higher than the machine.



The height of the drying room is above 1 meter from the top of the machine to reserve space for later maintenance

4、Ash room requirement

1, Ash room under the cornice of the shutter, to ensure a certain amount of air,10-15T dryer needs 4 square meters shutters, 20-30T drying
A dry machine needs 8 square meters blinds;
2. Do not place obstacles within 1.5 meters of the edge of the exhaust fan duct;
3, dust discharge pipe to ensure the dust discharge effect, corner using 45 degree elbow;
4. Grey room planning requirements: the front and rear distance is 4.5 meters, and the height is 6



Tower dryer series



PRODUCT ADVANTAGE

01 Unique downstream counter-current drying process, suitable for a wide range of grain

02 Adopt variable section inlet and outlet air arrangement, high drying thermal efficiency

03 Detachable corner box layout for regular cleaning

04 Thin grain layer, large air volume, high drying efficiency

05 Adopt multistage shunt and slow technology to ensure the quality after drying

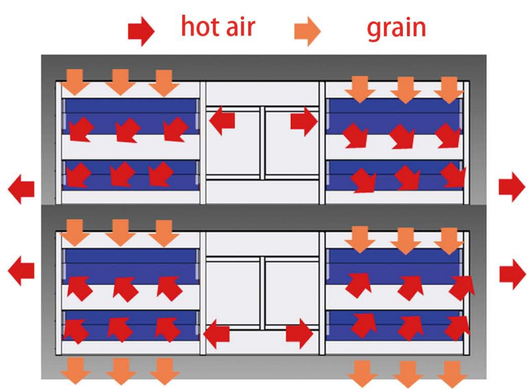
06 Independent double discharge structure, independent research and development of patent products

Model	5H-100L	5H-200L	5H-300L
grain	paddy / wheat / corn / soybean		
capacity(t/d)	100	200	300
dimension(mm)	2405×4187×16749	3040×4790×19250	3040×4790×21950
weight(t)	12.5	19	23
precipitation range(%)	14	14	14
grain volume(m^3)	40.5	82	96.5
drying section/height	7/900mm	9/900mm	12/900mm
heat of hot blast stove(kcal/h)	1200000	1800000	3000000
temperature of hot air(℃)	120~140	120~140	120~140
hot air blower model	4-84-7.6A	4-84-8A	4-84-8A
blower power(kw)	15	18.5	22
cold air blower model	4-84-6.6A	4-84-7.1A	4-84-7.1A
blower power(kw)	5.5	11	11
discharge motor power	1.1	1.1	1.1

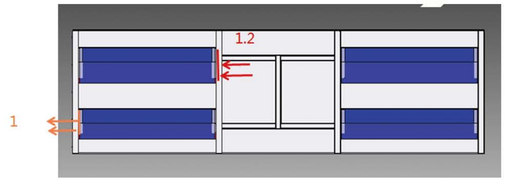
Tower dyer Advantage

1、Dry layer advantage

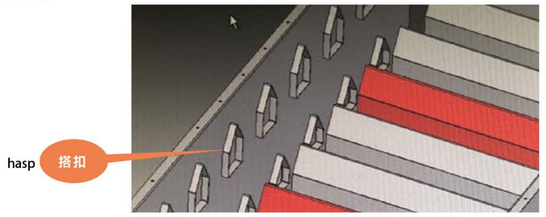
1) Unique upstream and countercurrent drying process, suitable for a wide range of materials
Downstream: food heating up fast
Countercurrent: high heat exchange efficiency
Woud drying tower adopts the rational collocation of the way, first downstream drying,
Let the tide grain into the drying tower rapidly heating, and then counter-current drying increase change
Thermal efficiency, the overall drying efficiency is higher.



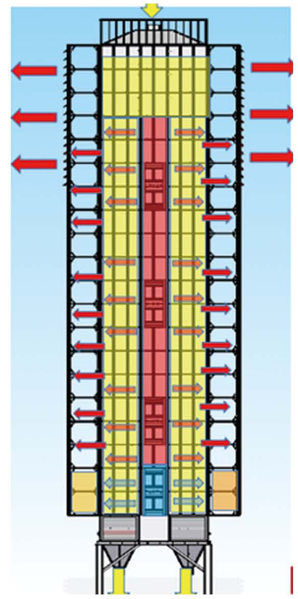
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2) Using variable section inlet and outlet air arrangement, drying heat exchange efficiency is high The area of the inlet is 1.2 times that of the outlet, which increases the wind pressure, The hot air penetration is better, and the heat exchange efficiency between hot air and grain is improved



3) Removable corner box layout, easy to clean regularly
The corner box is directly placed on the buckle of the side plate for convenient installation and disassembly。

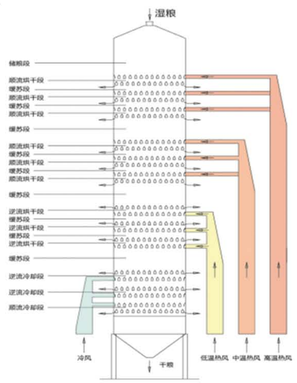


4) Thin grain layer, large air volume, high drying efficiency
The Wold drying tower has air inlet in the middle and air outlet on both sides Structure, the air inlet will divide the grain column into two, more convenient
In the tradition of hot air, improve drying efficiency。

precipitation material
grain
hot air
cooling air

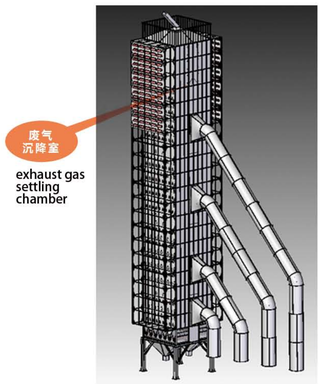
2、buffer advantage

Adopt multi-stage shunt retarding technology, Ensure quality after drying The drying section of the woud drying tower
With a buffer layer, the higher the buffer ratio,The more you can guarantee the food after baking Quality, using multistage size slow , Improve the quality after drying.



3、Advantage of exhaust gas collection chamber

With exhaust gas settling chamber, environmental protection and energy saving While collecting impurities from the air outlet, Does not affect the air volume.



4、Electrical system Advantage



1) High and low hindrance suspension material level
The grain storage section at the top of the whole tower is equipped with high and low hindering suspended material level device and suspended material level device Viscosity resistance, high temperature resistance, sensitivity can be adjusted according to different materials, compact Good sealing.



2) Advantages of discharge motor
German philander four frequency conversion reducer motor, frequency conversion fan
The enclosure is large and can adapt to any moisture by adjusting speed
Dry, stable output, can be used for a long time longer than the country
Production machine. The body is made of cast aluminum, which effectively reduces electricity
The temperature at which the machine is running. More stable, more reliable, fault
Low rate, long service life