

# Global Hemp Solutions



## GLOBAL HEMP SOLUTIONS

Automatic Gas-heated Hemp Drying Machine

**5-layers, 1000 pounds/h**

Continuous drying machine



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No.	Description	Specification	QTY /sets	Price/set FOB Qingdao	Options
1	Feeding conveyor	13.8ft*7.2ft*11.5ft	1	\$5,000	/
2	Continuous dryer main body	32.8ft*10.5ft*12.1ft 5-layers	1	\$77,000	UL Motors: \$8,000 (\$1,000/motor-8motors)
3	Hot blast blower	13.1ft*6.6ft*5.9ft Carbon steel	1	\$18,000	/
4	Gas burner	RIELLO brand Power:600000kcal/h	1	\$7,500	Gasifier required with LP burner \$5,000
5	Electricity Distribution Controller	Sus304	1	\$2,500	Touch Screen: Additional \$3,000
6	Discharge conveyor	13.1ft*2ft*8.2ft Power:0.55kw	1	\$5,000	/
Total price (FOB Qingdao)			2	\$115,000 USD	\$126,000 USD
Shipping (sea) freight (2x40'containers+1x20'container)				TBD	TBD
Total price (Shipping additional)				\$115,000 USD Plus Shipping	\$131,000 USD Plus Shipping

## Remarks:

- 1.Lead Time: approximately 30 days after receiving the deposit, system will be shipped.
- 2.Terms of payment: 50% TT in advance and 50% against balance before shipment.
- 3.We can guarantee the quality of the above machines for one year.
- 4.Installation and debugging cost: The seller is responsible for the installation guidance and commissioning. The buyer needs to reimburse the workers' lodging and round-trip expenses , and subsidy \$150usd/person per day till Installation completed. Additional installation options may be available.

## 1. Introduction

This equipment is a belt type multilayer reverse dryer. The main parts are made of high quality carbon steel. The stainless steel mesh belt is made of SUS304, it runs smoothly, easy to maintain and has a long service life. If the Riello burners are replaced with the biomass burner, the 6000000kcal biomass burner is required and needs 120,000kg of biomass to operate.

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The whole machine running speed and drying temperature can according to production needs set. It's has a high degree of automation, saving labor and improving production efficiency.

The dryer can be used not only for the drying of hemp, marihuana, cannabis , but also for Chinese herbal medicine ,salvia miltiorrhiza, and ginseng, garlic, ginger and so on. The dryer's temperature and humidity can be adjusted according to the actual situation.

## **II. Fundamental**

1. The machine can use electric, gas, LPG, coal, biological particles, diesel and other energy heating. The working principle is that the air heated by the heat source in the hot air stove ,is blown by circulation fans into the inside of the drying cabinet body, so that the moisture of the product is evaporated under the heat. Evaporated under the action, the generated moist air discharged to the outside of the device with the exhaust pipe. The machine can continuously feed and make the material run smoothly. During the material conveying process, the gap is conveyed through the intermittent mesh belt to realize the turnover of the material and reach the homogeneity of the heated wind on all surfaces. It can connect with other equipment to achieve continuous operation.

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Heating modes:

Hot-air stove heating, energy can be natural gas, biomass pellet, liquefied gas, LP.



Gas burner: RIELLO brand



Hot-air stove:

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2. Each unit of mesh belt dryer has independent circulation of hot air. Part of the wasted gas is discharged by a special dehumidifying fan. The exhaust gas is controlled by a regulating valve. The hot gas make the material up or down on the mesh belt by heating to dry biomass and remove the moisture. The mesh belt moves slowly, the operating speed can be adjusted freely according to the material temperature, and the dried product continuously falls into the receiver. Up and down cycle can be flexibly configured according to user needs, and the number of units can be selected according to the need. The amount of air, heating temperature, material residence time, and heating rate can be adjusted to achieve the drying effect.
3. Due to the low temperature of the material, the equipment is completely closed, only leaving the openings necessary for the discharge, so the effect of dehumidifying is good.
4. The unique air intake device makes the distribution of hot air more

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uniform and ensures the consistency of product quality.

(Display of Hot Air Circulating direction)



5. Heating system, temperature-controlled multi-position design and high air circulation fan can make internal heat fully dispersed in

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every corner of the interior. Make sure there are no dead ends.

Uniform temperature, ideal for air drying and drying products.



- a. Circulation fan: The circulating fan can blow the hot air generated by the hot stove into the dryer chamber.
- b. Air volume controller: When the air temperature in the hot blast stove is too high, the valve is properly opened, which can replenish fresh air and regulate the temperature inside the dryer.(only steam-heated dryer needed)
- c. Dehumidifier fan: It can discharge the damp air.
- d. Moisture control valve: When the air temperature rises, the valve can be enlarged a little. It can accelerate the removing of moisture.

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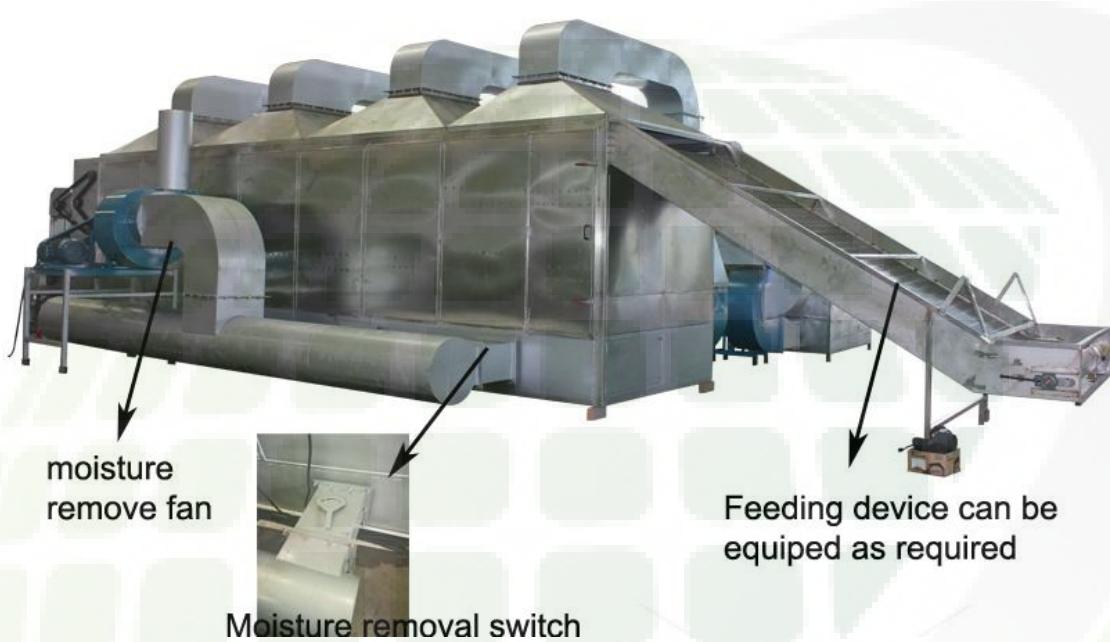
## **III. Overall appearance and layout of dryer**

### **A. External structure and details**



For 5-layer dryer, the feeding and discharging are in the opposite direction.

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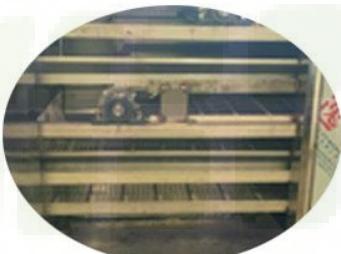
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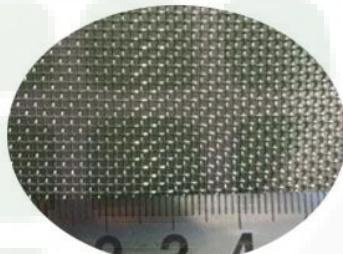
lock:Flexible design can check work status at any time



chain sprocket:Good wear resistance, High strength and tensile properties



frame:Carbon steel structure, Longer service time by gas shielded



Woven mesh, food grade stainless steel, tough, good ventilation

Observing window: Through the observing windows, drying level can be judged.



Mesh belt: is made of SUS 304, its width is 1800mm.

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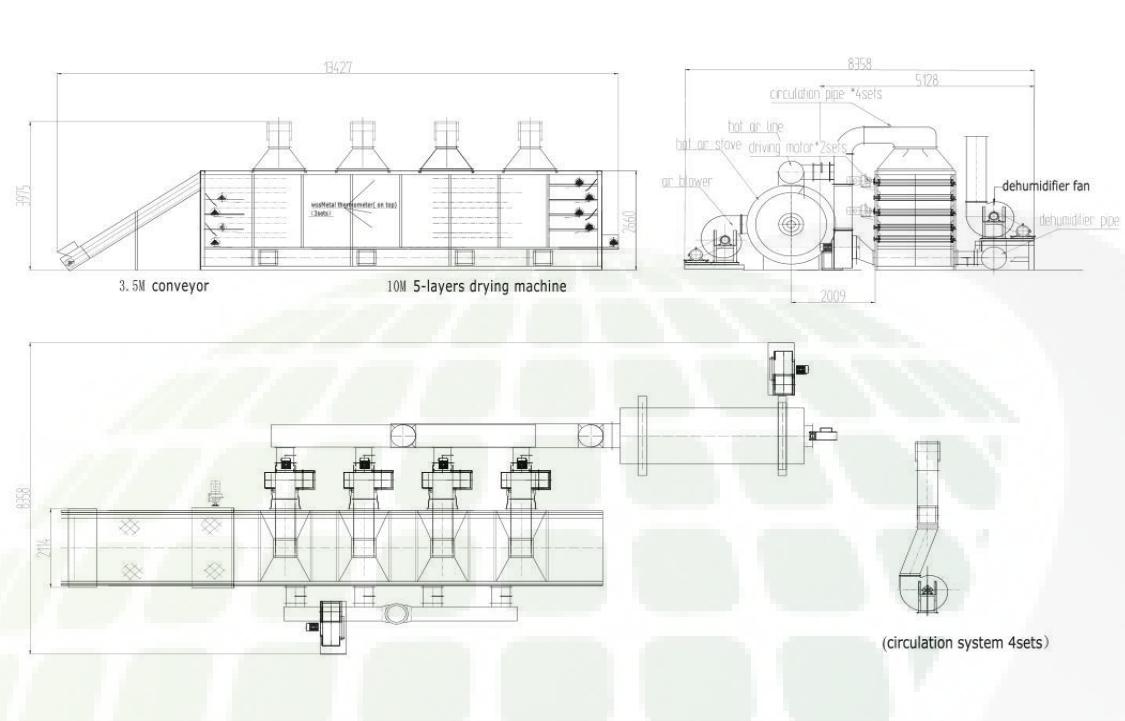
## **B. Electrical controller**

This kind controller is easy to operate and maintain. it includes the electronic control switch and electrical components used in the whole system.



## **C. layout of dryer& overhead view**

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## D. discharge elevator(customized length and height)



## IV. Material allocation and total price:

### 1. Feeding machine:

Material: Carbon steel, Mesh belt sus304.

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Dimension: 13.8ft\*7.2ft\*11.5ft, Slope length 14.8ft.

## **2.Mesh belt Continuous Drying machine:**

Dimension: 32.8ft\*7.2ft\*12.1ft

Capacity: 1000 pounds/h (calculated by wet hemp)

Voltage: industrial voltage 3 phase, 440v--480v/60hz, can be designed according to client's local voltage.

Electric current: 65A-70A.

Mesh belt: made of 304SUS, width 1800mm

Drive power: 3kw\*1set, 2.2kw\*1set.

Circulation fan: 4kw\*4sets.

Air-blower: 11kw\*1set.

Centrifugal exhaust fan power: 5.5kw\*1set.

Burner power: 600000kcal, natural gas consumption: 50-60m<sup>3</sup>/h.

(LPG consumption: 45-50KG /h, propane consumption: 35-40 m<sup>3</sup>/h.)

Total power: 35kw. (If a generator unit is needed, its power should exceed 60kw, about equal to 75KVA.)

## **Machine List of Complete Dryer line**

Name	Type	Specification	Remark
Structural plate steel	Carbon steel	2.0mm	
Transmission shaft	Carbon steel	Ø50	
Insulation shield	Carbon steel	1.2mm	

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Support leg	Carbon steel	60*80*3.0mm	
Mesh belt	SUS304	Width 1800mm	
Transferring gear	SUS304	9-teeth gear	
Insulation Materials	Aluminum silicate board	50mm thick	
Conveyor speed reducer			
Temperature Controller		A1208	
Temperature Sensor		WP-236	
Electricity Distribution Controller(control panel)		1.2mm	Double layer waterproof function
Electric appliances			
Frequency converter			
Mesh support shaft	SUS304	spacing150mm 16mm	fulcrum shaft
Circulation fan	Carbon steel, 4sets, power:4kw*4		
Centrifugal Exhaust fan	Carbon steel, 5.5kw*1set		
Air-blower	Carbon steel, 11 kw*1set.		
Hot-air stove	1 set		

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Gas burner	1 set, Italian RIELLO Brand
Discharge conveyor	13.1ft*2ft*8.2ft Power:0.55kw
<b>Total</b>	<b>CIF US Port \$131,500 USD (Based on client options)</b>
	<p>1.Equipment quality warranty for one year.</p> <p>2.<b>Payment Terms:</b> T/T, deposit 50% to start production, after the completion of the production and the inspection ,payment of the rest 50% should be finished before delivery.</p>
<b>Notes</b>	<p>3.<b>Installation and debugging:</b> The cost of round-trip ticket, aboard lodging, the cost of the visa and the subsidy of US\$150 per person every day, paid by the client. Manufacturer is responsible for the installation guidance, debugging, technical guidance; client must provide the local necessary manpower and equipment support, such as cranes, porters, etc.</p> <p>4. Lead Time :approx 30 days to build</p>

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## **V. Our company**

Global Hemp Solutions is your all inclusive post-harvest processing and extraction equipment provider. We have partnerships with some of the world's largest and best manufacturers. We not only provide you with the best equipment to help make you successful, we are there every step of the way even after the installation of the equipment. We value long term relationships and are truly here to serve you.



All prices and shipping times subject to change. Please contact us for updated lead times and pricing.