Automatic Electrical-heated Hemp Dryer

5-layers, 1000 pounds/hr

Continuous drying machine
<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Specification</th>
<th>QTY</th>
<th>Price/set FOB Qingdao</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Feeding conveyor</td>
<td>13.8ft<em>7.2ft</em>11.5ft</td>
<td>1</td>
<td>$5,000</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Continuous dryer main body</td>
<td>32.8ft<em>10.5ft</em>12.1ft 5-layers</td>
<td>1</td>
<td>$77,000</td>
<td>UL Motors: $8,000 ($1,000/motor-8motors)</td>
</tr>
<tr>
<td>3</td>
<td>Electric heating tube</td>
<td>5.9ft*16mm Power: 4kw/piece</td>
<td>176</td>
<td>$10,500</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Electricity Distribution Controller</td>
<td>Sus304, including Electrical components CHNT brand</td>
<td>1</td>
<td>$2,500</td>
<td>Touch Screen: Additional $3,000</td>
</tr>
<tr>
<td>6</td>
<td>Discharge conveyor</td>
<td>13.1ft<em>2.0ft</em>8.2ft Power: 0.55kw</td>
<td>1</td>
<td>$5,000</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total price</strong> (FOB Qingdao)**</td>
<td></td>
<td>2</td>
<td><strong>$100,000</strong></td>
<td><strong>$111,000</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Shipping (sea) freight (2x40’ containers+1x20’ container)</strong></td>
<td></td>
<td><strong>TBD</strong></td>
<td><strong>TBD</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total price</strong> (Shipping not included)</td>
<td></td>
<td><strong>$100,000 USD Plus Shipping</strong></td>
<td><strong>$111,000 USD Plus Shipping/Tariffs</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Remarks:**

1. Lead Time: Approximately 30 days after receiving the deposit, system is 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. Please contact us for current rates.

**I. 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. The whole machine running speed and drying temperature can be adjusted according to your production needs. It has a high degree of automation, saving labor and improving production efficiency.
II. Fundamental

1. The working principle is that the air heated by the heating tubes in the dryer chamber, 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 is 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.

Electric heating tube:

The produced hot air is dry without moisture, conductivity, combustion, explosion, chemical corrosiveness, pollution, safety and reliability, and the heating space is heated rapidly (controllable).
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 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 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 electric heating tubed into the dryer chamber.

b. Dehumidifier fan: It can discharge the damp air.

c. Moisture control valve: When the air temperature rises, the valve can be enlarged a little. It can accelerate the removing of moisture.
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.
moisture remove fan

Feeding device can be equipped as required

Moisture removal switch

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.

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

D. discharge elevator (customized length and height)
IV. Material allocation and total price:
1. Feeding machine:
   Material: Carbon steel, Mesh belt sus304.
   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/hr (calculated by wet hemp)
   Voltage: industrial voltage 3 phase, 440v--480v/60hz, can be designed according to client’s local voltage.
   Electric heating power: 704kw.
   Electric heating tube power is 4kw/piece, total 176pieces. Ensure the normal operation of the equipment, clients need a 1000kW voltage stabilizer, please consult the local power department.
   Electric current: 1200A-1350A.
   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.
   Total power: 740kw. (If a generator unit is needed, its power should exceed 1200kw, about equal to 1500KVA.)
### Machine List of Complete Dryer line

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Specification</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structural plate steel</td>
<td>Carbon steel</td>
<td>2.0mm</td>
<td></td>
</tr>
<tr>
<td>Transmission shaft</td>
<td>Carbon steel</td>
<td>Ø50</td>
<td></td>
</tr>
<tr>
<td>Insulation shield</td>
<td>Carbon steel</td>
<td>1.2mm</td>
<td></td>
</tr>
<tr>
<td>Support leg</td>
<td>Carbon steel</td>
<td>60<em>80</em>3.0mm</td>
<td></td>
</tr>
<tr>
<td>Mesh belt</td>
<td>SUS304</td>
<td>Width 1800mm</td>
<td></td>
</tr>
<tr>
<td>Transferring gear</td>
<td>SUS304</td>
<td>9-teeth gear</td>
<td></td>
</tr>
<tr>
<td>Insulation Materials</td>
<td>Aluminum silicate board</td>
<td>50mm thick</td>
<td></td>
</tr>
<tr>
<td>Conveyor speed reducer</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature Controller</td>
<td></td>
<td>A1208</td>
<td></td>
</tr>
<tr>
<td>Temperature Sensor</td>
<td></td>
<td>WP-236</td>
<td></td>
</tr>
<tr>
<td>Electricity Distribution Controller (control panel)</td>
<td>SUS304</td>
<td>1.2mm</td>
<td>Double layer waterproof function</td>
</tr>
<tr>
<td>Electric appliances</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frequency converter</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mesh support shaft</td>
<td>SUS304</td>
<td>spacing 150mm</td>
<td>fulcrum shaft 16mm</td>
</tr>
</tbody>
</table>
Circulation fan | Carbon steel, 4 sets, power: 4kw*4
---|---
Centrifugal Exhaust fan | Carbon steel, 5.5kw*1 set
Air-blower | Carbon steel, 11 kw*1 set.
Electric heating tubes | 176 pieces, power: 4kw/piece
                   | Total power: 704kw
Discharge conveyor | 13.2ft*2.0ft*8.2ft, Power: 0.55kw

**Total** | **CIF US Port $111,000 USD (Based on client options)**
---|---

1. Equipment quality warranty for one year.

2. **Payment Terms:** T/T, deposit 50% to start production. Remaining 50% is due prior to shipping. Additional taxes and applicable transit fees not included.

**Notes**

3. **Installation and debugging:** Please contact us for current Engineer rates

4. Lead Time: Please contact us for current lead times.
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.