

Jujube/Dates Drying Equipment

Specifications :

Price	10000-100000USD
Brand Name	LOYAL
Model Number	LY
Place of Origin	JINAN,CHINA
Min.Order Quantity	1 SET
Payment Terms	T/T, L/C...
Supply Ability	1 month 5 sets
Delivery Detail	30-35 working days
Packaging Details	Film wrapping/wooden box packaging

Detail Introduction :

Jujube/Dates Drying Equipment

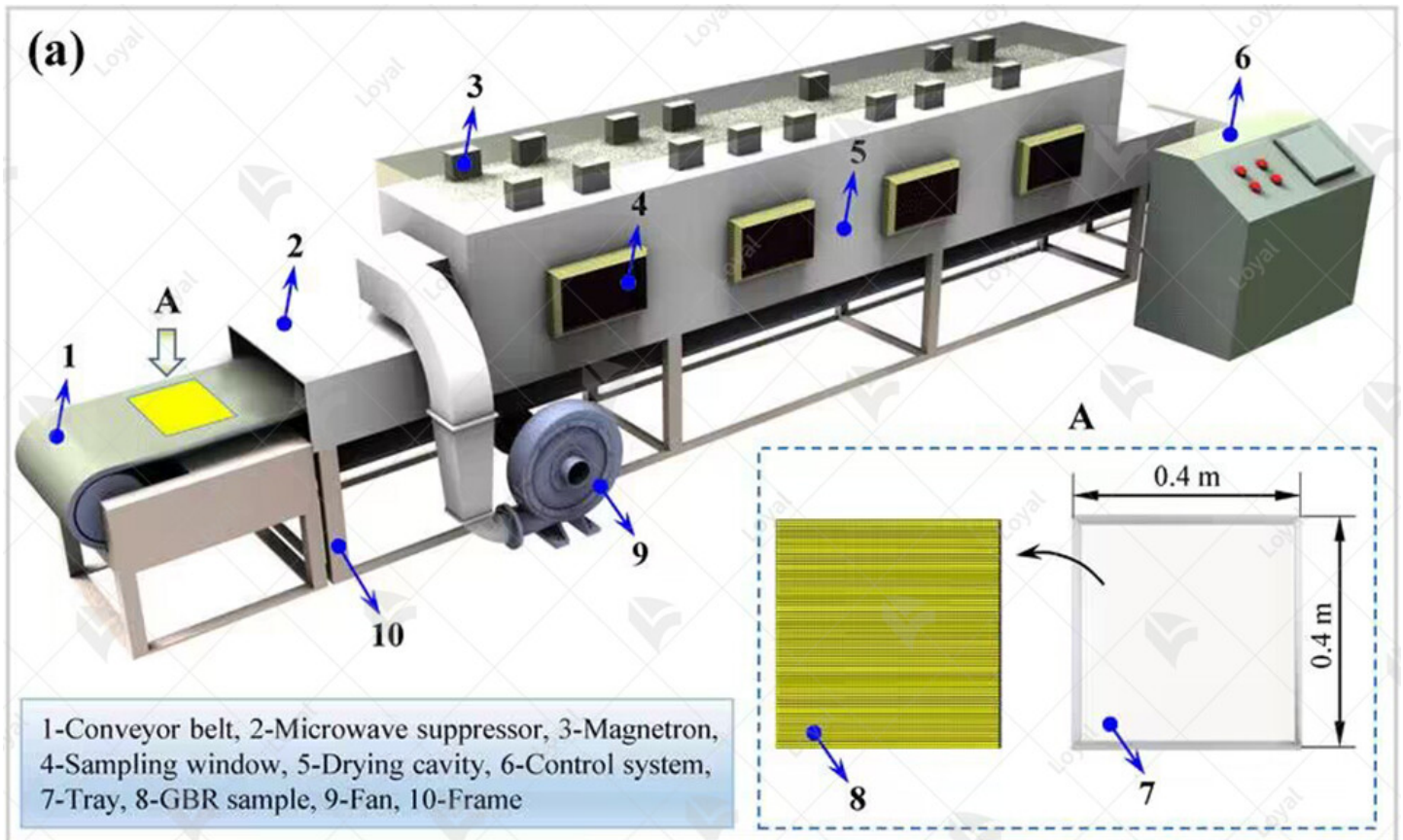
The Dates Drying Equipment has a fast heating speed. Microwave heating makes the heated object itself a heating body, which is called an internal heating method. It does not require the process of heat conduction. Jujube Drying Equipment adopts low temperature sterilization and no pollution. Microwave energy itself will not contaminate food, and the double sterilization effect of microwave thermal effect can kill bacteria at a lower temperature, which provides a heat sterilization method that can maintain more nutrients in food.

Microwave Sterilize Dried Fruit by Shandong Loyal Industrial Co., Ltd. offers a state-of-the-art solution for preserving the essence of date palm's sweet bounty. By harnessing the power of microwave technology, this equipment ensures gentle drying, preserving the natural taste, color, and nutritional integrity of dates fruit. Whether for industrial-scale operations or small-scale producers, this machinery provides consistent results, meeting the highest European quality standards.



How to Dry Jujubes by Microwave Drying Machine?

Microwaves are electromagnetic waves that generate high-frequency electromagnetic fields. The heating medium material consists of polar molecules and non-polar molecules. The water molecules in the material are polar molecules. Under the action of the electromagnetic field, the polar molecules change from the original random distribution state to the polarity, according to the polarity of the electric field. Molecular motion and friction against each other generate energy that continuously increases the temperature of the material. A series of physicochemical processes are produced for heating and puffing to achieve the purpose of thermal drying and drying of dates.

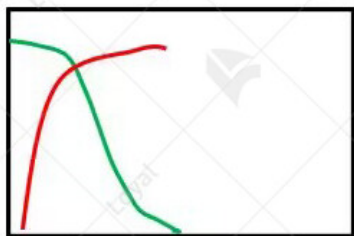


Industrial Microwave Dryer VS Gas Dryer Comparison

Operating Conditions	Industrial Microwave Dryer	Direct Fired Gas
Energy Source	Electricity	Gas
Heat Penetration	Volumetric(Uniform Throughout)	Surface To Interior
Heating Rate	Nearly Instantaneous	Typically Slow
Chemical Changes To Product	None	Carbonization, M...
Dryness Control/Consistency	Precision ,<1% Possible	Non-Precision,3-4%
Color Change To Product	None	May Darken*
Nutrient loss in product	None	Possible
Reliability	Very High	Poor To Moderate
Labor Requirements	Minimal, Fully Automatic	Usually Requires
Fire/Explosion Hazard*	None	Possible
Energy Efficiency		
Overall Energy Efficiency	75%+	<50%**
Heat Energy Delivered To Load	95%+	<50%
Water Removal Energy	1000 - 1200 Btu/ Lb	1800-2400 Btu/lb
		4200-5600
	2300-2800 Kj/Kg	Kj/Kg**
Emissions		
Control Equipment Required?	No	Yes
Generates Vocs ?	No	Yes
Generates Cox And Nox ?	No	Yes
Generates Particulates ?	No	Yes

LOYAL'S MICROWAVE ADVANTAGES

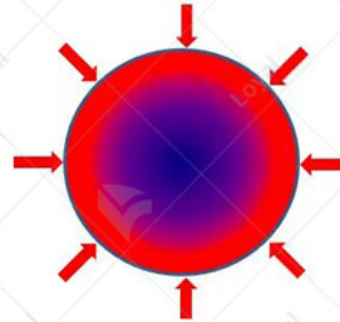
Microwave Heating



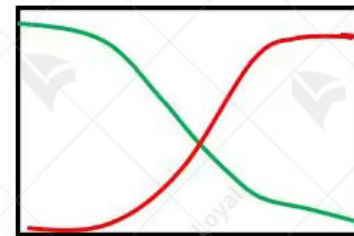
Time

FASTER, MORE EVEN

Conductive Heating



Temperature



Time

SLOWLY...

Moisture

Temperature

WHAT ARE CHARACTERISTICS OF DATES INDUSTRIAL MICROWAVE DRYER?

Characteristics Of Microwave Sterilize Dried Fruit	
1	Rapid heating, uniform heating, short drying time, and improved product quality.
2	Energy saving and high efficiency, no environmental pollution.
3	Dates industrial microwave dryer adopts PLC automatic control, adjustable microwave power, automatic temperature control system, automatic conveyor belt correction system, transmission frequency conversion speed regulation system, etc., one-key setting, the system is fully automatic, the operation is simple, and labor intensity is low.
4	Jujube Drying Equipment is mainly made of stainless steel plate, which is strong and sturdy, beautiful appearance, convenient for cleaning and simple in daily maintenance.

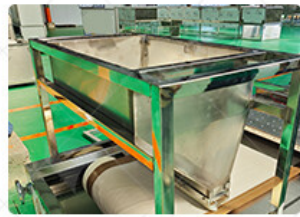
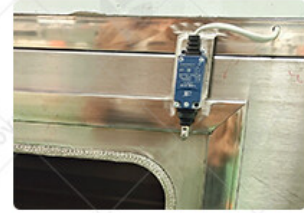
1. PLC control system



6. Machine Material : 304 stainless steel



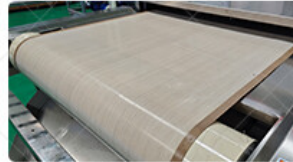
5. The observation window is equipped with a travel switch to prevent microwave leakage and improve safety.



2. Material Feeder : Customizable according to your materials, both Liquid & Powder & Pellet available



3. Belt: Customizable mesh belts of various materials



4. Control cabinet: Add a control box, neat and easy to clean.



Type Of Dates Industrial Microwave Dryer You Can Choose

Technical Parameters Of Jujube Microwave Drying Solution					
Model	Size L*W*H(Can be customized according to the customer's requirements)	Output power	Dewaterability	Sterilization capacity	
LY-10KW	5000mm*825mm*1750mm	10KW	10KG/Hour	100KG/Hour	
LY-20KW	8000mm*825mm*1750mm	20KW	20KG/Hour	200KG/Hour	
LY-30KW	8500mm*1160mm*1750mm	30KW	30KG/Hour	300KG/Hour	
LY-40KW	10000mm*1160mm*1750mm	40KW	40KG/Hour	400KG/Hour	
LY-50KW	12500mm*1160mm*1750mm	50KW	50KG/Hour	500KG/Hour	
LY-60KW	13500mm*1450mm*1750mm	60KW	60KG/Hour	600KG/Hour	
LY-70KW	13500mm*1500mm*1750mm	70KW	70KG/Hour	700KG/Hour	
LY-80KW	13500mm*1650mm*1750mm	80KW	80KG/Hour	800KG/Hour	
LY-100KW	16800mm*1650mm*1750mm	100KW	100KG/Hour	1000KG/Hour	
LY-150KW	22400mm*1850mm*1750mm	150KW	150KG/Hour	1500KG/Hour	
LY-200KW	27000mm*1850mm*1750mm	250KW	250KG/Hour	2500KG/Hour	
LY-300KW	32000mm*1850mm*1750mm	300KW	300KG/Hour	3000KG/Hour	
Power Supply		380V±10% 50Hz±1% Three			
Microwave Output Frequency		2450±50M			
Microwave Input Apparent Power		168Kva			
Microwave Output Power		120Kw			
Microwave Power Adjustment Range		0-30Kw(Adjustable)			
Ambient Temperature		-5-40°C			

	Relative Humidity	780%, Surrounding Environment:No Corrosive Gas
	Transmission Speed	0-10m/Min(Adj)

How microwave works?

Microwave Generation: Inside the Jujube Microwave Drying Solution microwave oven, there is a device called a magnetron. The magnetron generates microwave radiation, which is a type of electromagnetic radiation similar to radio waves but with a much higher frequency.

Microwave Chamber: The microwave chamber or cavity is where you place the food to be heated. It is made of metal to reflect the microwaves and keep them contained within the chamber.

Microwave Radiation:When you turn on the microwave oven and set the cooking time and power level, the magnetron emits microwave radiation.

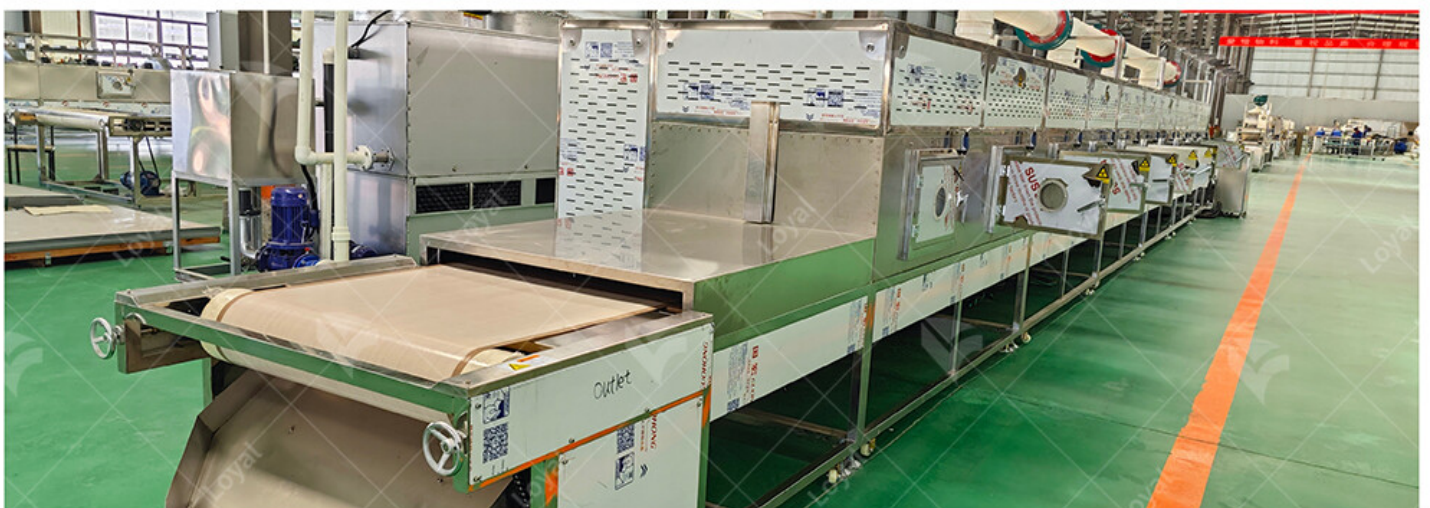
Absorption by Water Molecules: Microwave radiation is absorbed by water molecules, fats, and sugars present in the food. This absorption causes the molecules to vibrate rapidly, which generates heat throughout the food.

Uniform Heating:Unlike conventional ovens that heat food from the outside in, microwaves penetrate the food and heat it from the inside out. This leads to more uniform heating throughout the food item

Safety Features:Jujube Drying Microwave Equipment are equipped with safety features such as door interlocks and shielding to prevent microwave radiation from escaping the chamber when the door is open and to protect the user from exposure to excessive microwave radiation.

Control Panel:The control panel of the microwave oven allows the user to set cooking times, power levels, and other settings to customize the cooking process.

Overall, microwaves work by using electromagnetic radiation to agitate water molecules and generate heat, resulting in the rapid and efficient heating of food.



In conclusion, Shandong Loyal Industrial Co.,Ltd.'s Jujube Drying Equipment represents a paradigm shift in food preservation, combining cutting-edge technology with European craftsmanship. From Dates Drying Equipment to Jujube Drying Equipment, and Microwave Sterilize Dried Fruit functionality, this machinery offers a holistic solution for preserving the natural goodness of fruits while meeting the highest standards of

quality and safety. With its commitment to innovation and excellence, Shandong Loyal Industrial Co.,Ltd. continues to lead the way in advancing food processing technology, ensuring a sustainable and flavorful future for European cuisine.