

Microwave Tea Drying Equipment

Specifications :

Price	USD 8,800.00
Brand Name	LOYAL
Model Number	LY
Place of Origin	China
Min.Order Quantity	1
Payment Terms	T/T
Supply Ability	30 sets per month
Delivery Detail	25-30 working days
Packaging Details	Wooden packages

Detail Introduction :

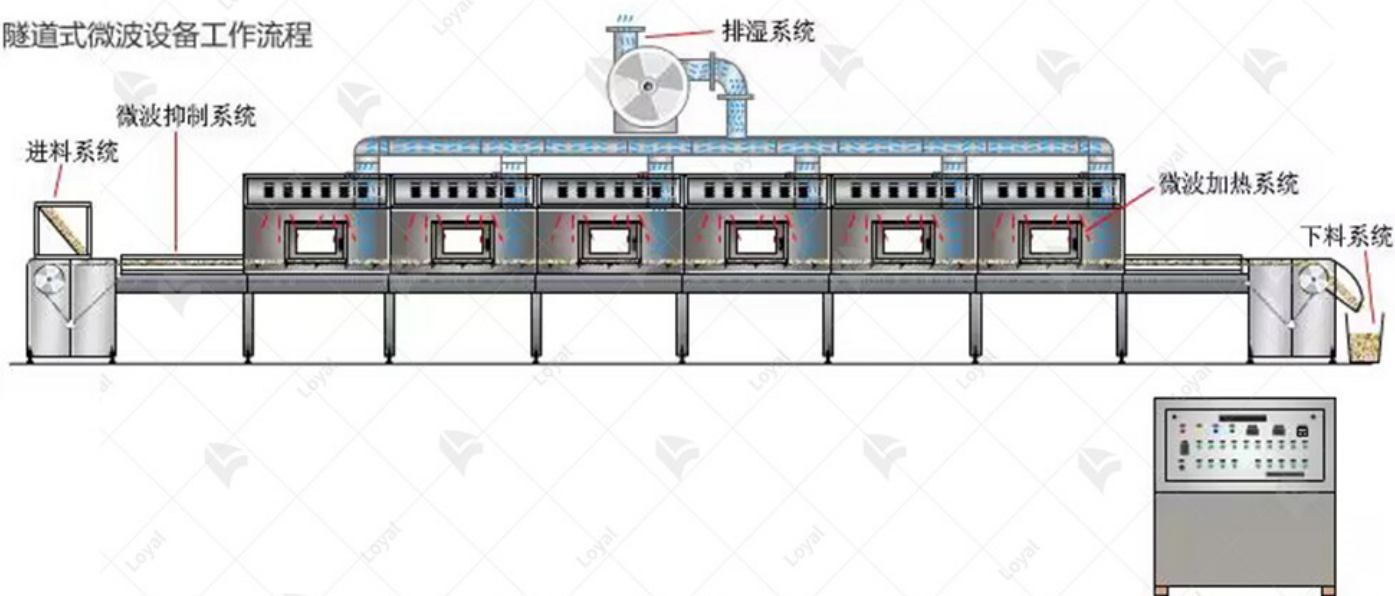
Microwave Tea Drying Equipment

As a professional Microwave Tea Drying Equipment manufacturers, our industrial Loose Leaf Tea drying machine is well designed and the Industrial Microwave Systems For Tea price is affordable. Our PLC Control Tea leaves drying machine is adopted advanced technology and premium making materials. Sufficient heating exchange, fast drying speed, high evaporation.



In the realm of tea production, precision and efficiency are paramount to preserving the flavor and aroma of premium teas. Shandong Loyal Industrial Co., Ltd. introduces Microwave Tea Drying Equipment, revolutionizing the way tea leaves are dried with cutting-edge microwave heating technology.

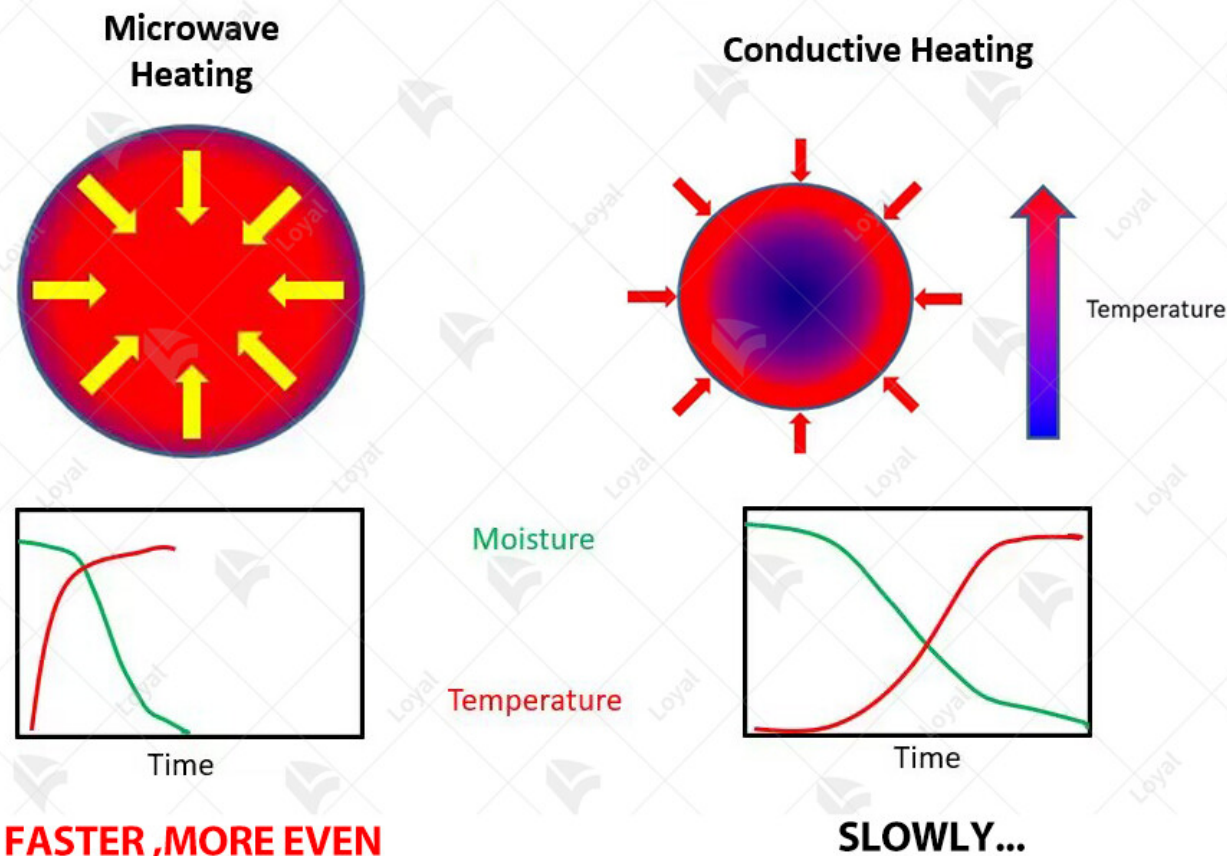
隧道式微波设备工作流程



Our Tea Drying Machine represents the pinnacle of innovation in tea processing. By harnessing the power of industrial Microwave Systems, we ensure rapid and uniform drying of tea leaves, preserving their delicate flavors and essential oils.

What Is The Principle Of Microwave Tea Drying Equipment?

LOYAL'S MICROWAVE ADVANTAGES



Microwave drying operates on the principle of utilizing microwave radiation to agitate water molecules within a material, causing them to rapidly oscillate and generate heat through friction. This localized heating accelerates the evaporation of moisture from the material, resulting in drying. The microwave energy penetrates the Tea leaves and selectively heats the water molecules, allowing for efficient and uniform drying compared to conventional methods.

Industrial Microwave Systems VS Gas Dryer Comparison

Operating Conditions	Microwave Tea Drying Equipment	Direct Fired Gas Dryer (Flash Types)
Energy Source	Electricity	Gas
Heat Penetration	Volumetric (Uniform Throughout)	Surface To Interior Conduction
Heating Rate	Nearly Instantaneous	Typically Slow
Chemical Changes To Loose Leaf Tea	None	Carbonization, Maillard Reaction
Dryness Control/Consistency	Precision, <1% Possible	Non-Precision, 3-5% Typical
Color Change To Loose Leaf Tea	None	May Darken*
Nutrient loss in Tea leaves	None	Possible
Reliability	Very High	Poor To Moderate
Labor Requirements	Minimal, Fully Automatic	Usually Requires Dedicated Staff

Fire/Explosion Hazard*	None	Possible
Overall Energy Efficiency	75%+	<50%**
Heat Energy Delivered To Load	95%+	<50%
Water Removal Energy	1000 - 1200 Btu/ Lb	1800-2400 Btu/b**
	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



The principle behind our Tea leaves drying machine lies in selective heating. Unlike conventional drying methods that heat the entire surface of the material, our microwave heating technology targets water molecules within the tea leaves, resulting in faster and more efficient drying while minimizing the risk of overheating or damaging the leaves.

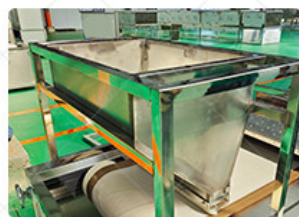
1. PLC control system



6. Machine Material : 304 stainless steel



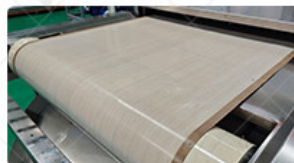
5. The observation window is equipped with a travel switch to prevent microwave leakage and improve safety.



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.



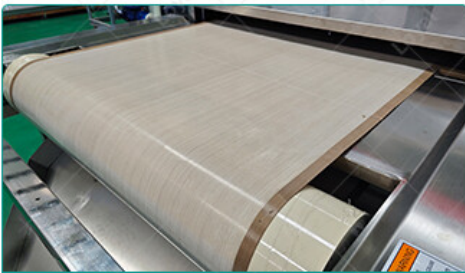
With our Tea Drying Machine, you can trust that your loose leaf tea will be dried to perfection. Whether it's green tea, black tea, or herbal tea, our equipment offers precise control over the drying process, allowing you to achieve the desired moisture content and flavor profile with ease.

Technical Parameters Of Tea Drying Machine

Model Of Tea leaves drying machine	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-Phase		
Loose Leaf Tea drying machine Output Frequency		2450±50Mhz		
Microwave Input Apparent Power		~168Kva		
Microwave Output Power		~120Kw		
Microwave Power Adjustment Range		0-30Kw (Adjustable)		
Ambient Temperature		-5-40°C		
Relative Humidity		~80%, Surrounding Environment: No Corrosive Gas,		
Transmission Speed		0-10m/Min (Adjustable)		



Experience the benefits of Microwave Tea Drying Equipment in every cup. Our tea drying machines are designed to handle large volumes of tea leaves while maintaining the highest quality standards. Say goodbye to uneven drying and hello to consistently superior tea.



1 Rapid heating, safe and environmentally friendly, sterilization time period, fast Save energy and heat evenly and thoroughly.



2 Timely heat control, sensitive response, strong microwave heating penetration ability.



3 High voltage power supply for microwave oil cooling Suitable for any environment long lasting Energy saving and environmental protection.



4 Use the dedicated high-voltage power supply for microwave air cooling in a dust-free environment long lasting Energy saving and environmental protection.



5 Microwave waveguide has long corrosion resistance and long service life.



6 Cooling fan, good heat dissipation effect.

What Are The Characteristics Of Loose Leaf Tea drying machine?

Characteristics Of Loose Leaf Tea drying machine	
1	Adopt Food Grade Stainless Steel, Nice Appearance, Easy To Clean.
2	Microwave Can Penetrate Through The Materials So That The Inside And Outside Are Heated At The Same Time Drying And Thorough Terilization. No ExtraHeat Loss, High Heat Efficiency, Saving Energy.
3	Thermal Effect And Non-Thermal Effect Work Together, Achieving Ideal Sterilization Effect At Low Temperature Can Keep Their Nutrition Components To TheMaximum.

4	Adopt Non-Contact Infrared Temperature Measurement Technology, High Precision, Automatic Control.
5	Frequency Adjustable Conveyor Speed, Step-less Adjustable Microwave Power, Instant Heating And Stop, No T Operation.
6	Adopt Human-Machine Interface Operation And PLCTouch Screen Control, Realizing AutomaticControl.
7	Microwave Leakages?1mw/ Cm2, No Heat Radiation, Improving The Work Environment.



**3-5min
Extremely
Fast Drying**



**Simultaneous
Heating Inside
And Outside**



**Temperature
Sensing
Prevents
Overheating**



**Synchronous
Sterilization &
Disinfection
Function**



**Cooling System
Has Long
Service Life**



**Microwave
Anti-Leak**

At Shandong Loyal Industrial Co., Ltd., we're committed to delivering innovative solutions for tea producers around the world. With our Microwave Tea Drying Equipment, you can elevate your tea production to new heights of excellence. Trust us to be your partner in quality tea manufacturing.

