

Cat litter microwave drying oven

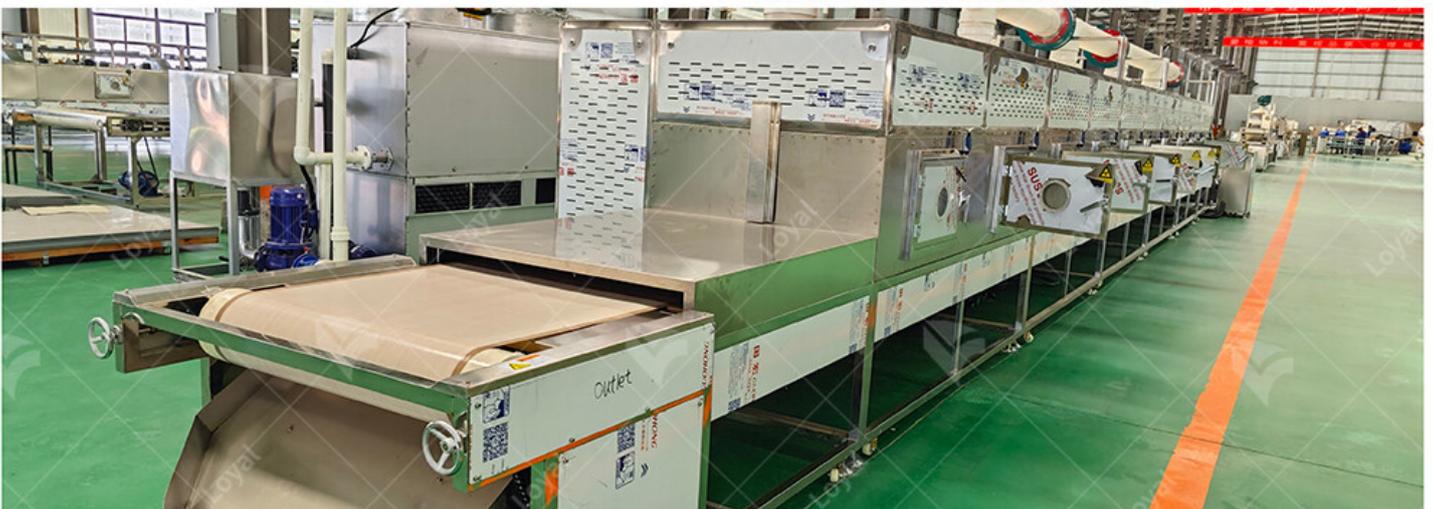
Specifications :

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 ?onth 5 set
Delivery Detail	30-35 working days
Packaging Details	Film wrapping/wooden box packaging

Detail Introduction :

Cat litter microwave drying oven

In today's pet care industry, efficient solutions for drying cat litter are essential for maintaining cleanliness and odor control in cat owners' homes. Shandong Loyal Industrial Co., Ltd. introduces the cat litter microwave drying oven, an innovative piece of equipment designed to streamline the drying process and enhance the quality of cat litter products.



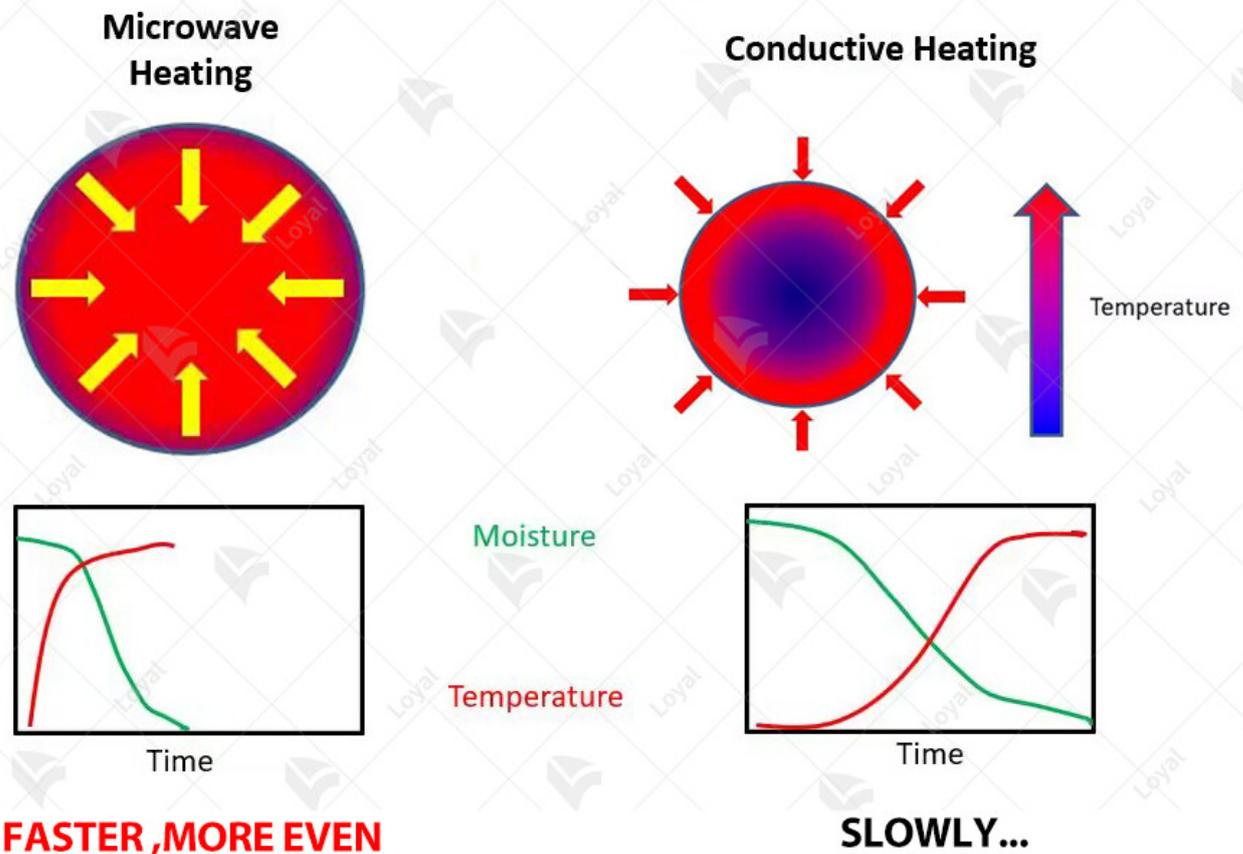
Working Principle of the Cat Litter Microwave Drying Oven

The Cat Litter Microwave Drying Equipment utilizes industrial microwave technology to dry cat litter quickly and effectively. Within the oven's chamber, industrial microwaves are generated and evenly distributed, penetrating the cat litter material. The microwaves cause polar molecules within the litter, such as water molecules, to oscillate rapidly, generating heat. This heat evaporates the moisture present in the cat litter, resulting in rapid drying without compromising the litter's integrity or quality.

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,3-5
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/b*
		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



The Application Scope Of Cat Litter Microwave Drying Oven

Cat Litter Manufacturing Facilities: The primary application of a cat litter microwave drying oven is within manufacturing facilities dedicated to producing cat litter. These facilities utilize the oven to dry and sanitize the cat litter material before packaging and distribution.

Pet Industry: Pet supply companies and retailers rely on cat litter microwave drying ovens to ensure the quality and effectiveness of their cat litter products. By efficiently drying the litter material, these ovens contribute to maintaining a clean and hygienic environment for pets and their owners.

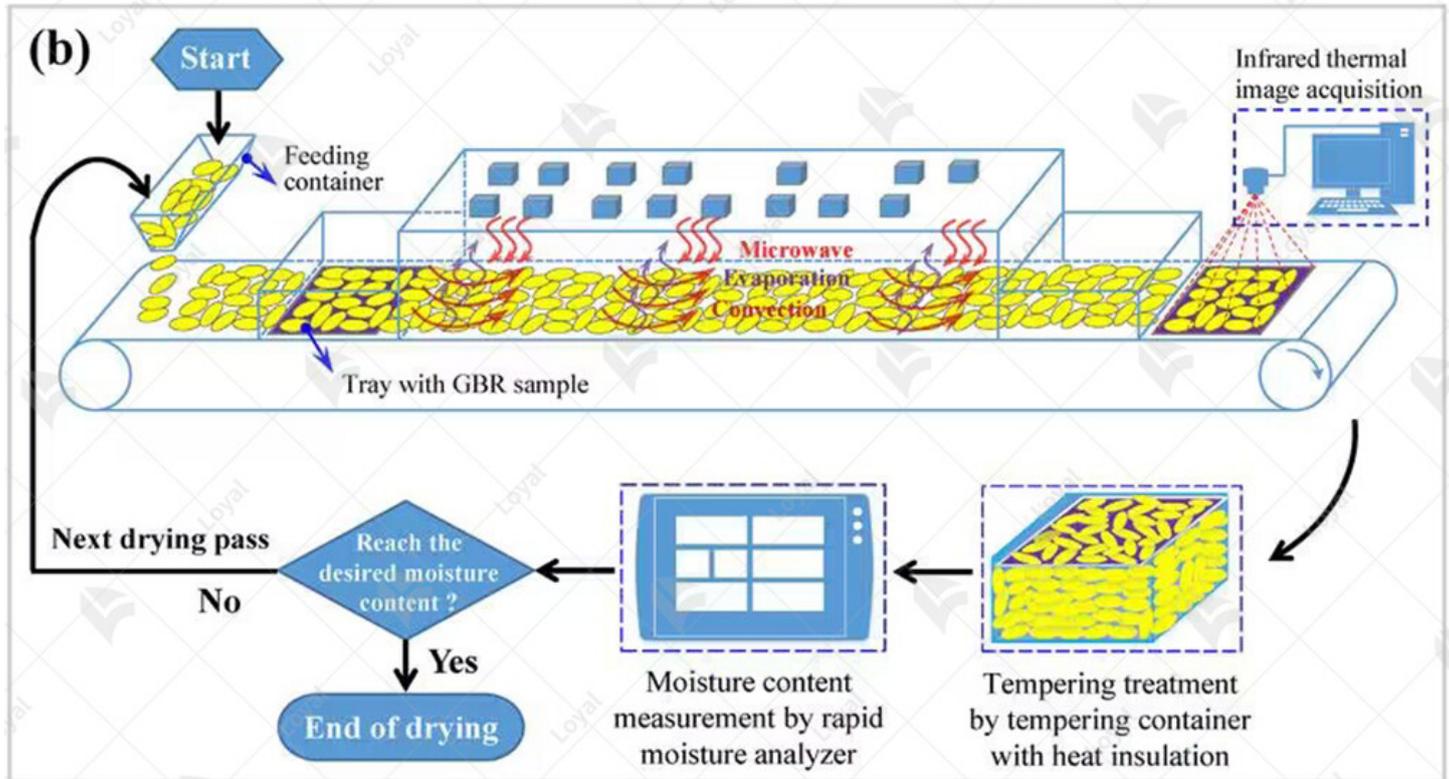
Research and Development: In the pet industry, ongoing research and development efforts aim to improve cat litter formulations and performance. Cat litter microwave drying ovens play a crucial role in testing and refining new litter compositions to enhance absorbency, odor control, and clumping properties.

Contract Manufacturing: Contract manufacturing companies that produce cat litter on behalf of other brands or private labels utilize cat litter microwave drying ovens to meet specific quality standards and production requirements.

Sustainability Initiatives: With the growing emphasis on sustainability in the pet industry, some manufacturers use Cat Litter Microwave Dryer as part of eco-friendly production processes. These ovens can contribute to reducing energy consumption and carbon emissions compared to traditional drying methods.

Specialized Applications: In addition to conventional cat litter products, Industrial Microwave Dry Cat Litter may also find application in specialized areas such as manufacturing eco-friendly or biodegradable cat litter variants that require precise drying parameters.

Overall, the application range of a Industrial Microwave Dry Cat Litter spans across various sectors within the pet industry, from manufacturing facilities to research and development laboratories, all working towards producing high-quality cat litter products for pet owners worldwide.



Technical Parameters Of Industrial Microwave Dry Cat Litter

Technical Parameters Of Cat Litter Microwave Drying Equipment					
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	40KG/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(Adjust)			
Ambient Temperature		-5-40°C			

	Relative Humidity	≤80%, Surrounding Environment:No Corrosive Gas
	Transmission Speed	0-10m/Min(Adjustable)

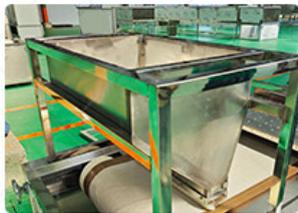
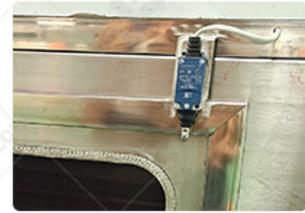
1. PLC control system



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 meshbelts of various materials



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



Advantages of the Cat Litter Microwave Drying Oven

Efficiency: Shandong Loyal's cat litter microwave drying oven offers unparalleled efficiency in drying cat litter, significantly reducing drying times compared to conventional methods. This efficiency translates to increased productivity and reduced operational costs for cat litter manufacturers.

Uniform Drying: The industrial microwave technology employed in the Cat Litter Microwave Dryer ensures uniform drying throughout the entire batch of cat litter. This uniformity results in consistent product quality and prevents issues such as clumping or uneven drying.

Preservation of Properties: Unlike traditional drying methods that can degrade the properties of cat litter, such as absorbency and odor control, the cat litter microwave drying oven preserves these essential characteristics. The controlled drying process maintains the integrity of the litter, ensuring optimal performance once used by pet owners.

Customization: Shandong Loyal offers customizable options for the Cat Litter Microwave Drying Equipment, allowing manufacturers to tailor the equipment to their specific production needs. From size and capacity to drying parameters, the oven can be adjusted to accommodate various types of cat litter and production volumes.

Environmental Friendliness: The Cat Litter Microwave Drying Equipment operates with minimal energy consumption compared to traditional drying methods, reducing its environmental impact. Additionally, the rapid drying process helps conserve energy and lower carbon emissions, contributing to sustainability efforts.



FAQs: Cat Litter Microwave Drying Oven

Q1: How does the cat litter microwave drying oven differ from conventional drying methods?

A1: The cat litter microwave drying oven utilizes industrial microwave technology to quickly and uniformly dry cat litter, whereas conventional methods such as air drying or heating can be slower and less efficient.

Q2: Is the drying process in the cat litter microwave drying oven safe for the litter material?

A2: Yes, the drying process in the cat litter microwave drying oven is designed to be gentle yet effective, preserving the integrity and properties of the cat litter material while efficiently removing moisture.

In conclusion, the cat litter microwave drying oven offered by Shandong Loyal Industrial Co., Ltd. presents a groundbreaking solution for efficiently drying cat litter. With its advanced industrial microwave technology, the oven delivers unmatched efficiency, uniform drying, and preservation of essential litter properties. Whether for small-scale or large-scale production, this innovative equipment streamlines the manufacturing process while ensuring high-quality cat litter products for pet owners worldwide.