

# Industrial Microwave Drying Of Powders Technology

## Introduction Of Microwave Drying Of Powders Machine:

Microwave drying of powders is a method of drying that uses microwave energy to remove moisture from powdered materials. It is a highly efficient and fast process that can reduce drying time by up to 90% compared to conventional drying methods. Microwave drying of powders is widely used in the food, chemical, and pharmaceutical industries, where it is used to dry a variety of powdered materials, such as spices, herbs, milk powder, and pharmaceutical powders. It is a cost-effective and energy-efficient method that can help to improve productivity and reduce operating costs.



## Feature Of Microwave Drying Of Powders Machine:

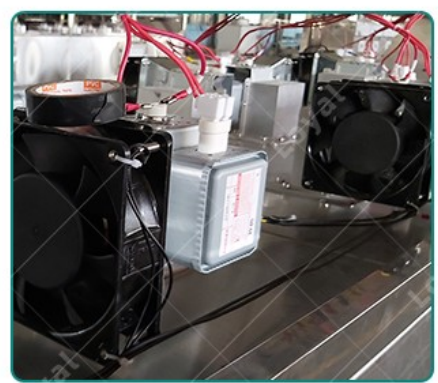
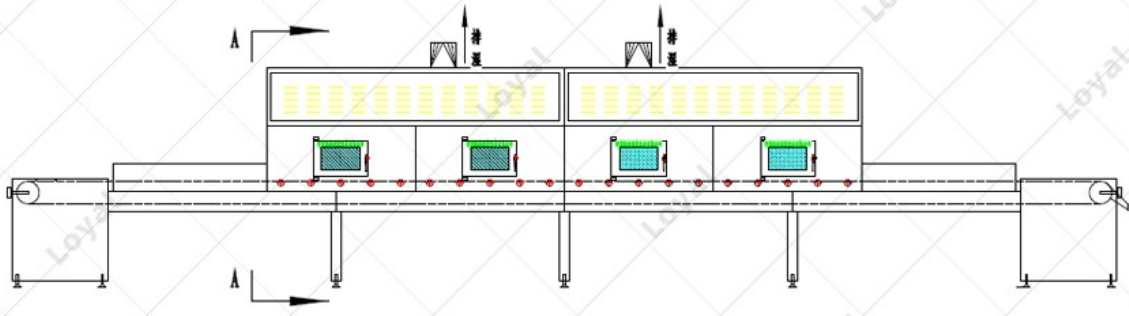
1	High Efficiency	Microwave drying of powders is a highly efficient process that can reduce drying time by up to 90% compared to conventional drying methods.
2	Non-Contact Drying	Microwave drying is a non-contact process, which means that the powders do not need to come into contact with any drying medium.
3	Uniform Heating	Microwave energy penetrates the entire depth of the material, ensuring that it is heated uniformly.

4	Energy Efficient	Microwave drying of powders requires less energy than conventional drying methods, making it a more energy-efficient option.
5	Easy to Operate	The microwave drying of powders machine is easy to operate, with a simple control panel that allows the operator to set the drying parameters.
6	Versatile	The microwave drying of powders machine can be used to dry a wide range of powdered materials, including food, chemical, and pharmaceutical powders.

### **Parameter Of Microwave Drying Of Powders Machine:**

1. Equipment Model	LY-60HM (Continuous)
2. Equipment Power	90Kva
3. Microwave Power	60Kw (Adjustable)
4. Equipment Size (Length*Width*Height)	10520*1802*1750mm (Size Can Be Customized)
5. Thawing Material Temperature	-2 - Below 0°C
6. Equipment Material	The Whole Machine Is Made Of 304 Stainless Steel
7. Equipment Capacity	800~1000 Kg/Hour
8. Equipment Color	Silver

### **Details Display Of Microwave Drying Of Powders Machine?**



**Applications Of Microwave Drying Of Powders Machine:**

**1. Food Industry:** The microwave drying of powders machine is widely used in the food industry to dry powdered products such as spices, herbs, milk powder, and vegetable powders.

**2. Chemical Industry:** The microwave drying of powders machine is also used in the chemical industry to dry various types of chemicals, including fertilizers, pesticides, and dyes.

**3. Pharmaceutical Industry:** In the pharmaceutical industry, the microwave drying of powders machine is used to dry various types of powders, including active pharmaceutical ingredients (APIs) and excipients.

**4. Cosmetics Industry:** The microwave drying of powders machine is also used in the cosmetics industry to dry various types of powders, including cosmetic powders, face powders, and body powders.

**5. Agricultural Industry:** The microwave drying of powders machine is also used in the agricultural industry to dry various types of powders, including animal feed, corn starch, and wheat flour.

### **Advantages Of Loyal Microwave Drying And Sterilization Equipment:**

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, Short Processing Time, Evenly Drying And Thorough Terilization. No Extra Heat Loss, High Heat Efficiency, Saving Energy.

3. Thermal Effect And Non-Thermal Effect Work Together, Achieving Ideal Sterilization Effect At Low Temperature And Short Time, The Vegetable Can Keep Their Nutrition Components To The Maximum.

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 Thermal Inertia, Convenient Operation.

6. Adopt Human-Machine Interface Operation And PLC Touch Screen Control, Realizing Automatic Control.

7. Microwave Leakages  $\leq 1\text{mw}/\text{Cm}^2$ , No Heat Radiation, Improving The Work Environment.

