



# MICROWAVE LABORATORY DRYER



Tsung Hsing have cooperated with Taiwan Food Industry Research & Development Institute cooperate for develop a "multi-function microwave experimental machine", which has been successfully apply in industrial field. Compared with traditional hot-air drying, the hybrid microwave can be greatly shortened drying speed to save time and energy.

The advantages of microwave are heat efficiency improving, energy saving, production efficiency accelerating, rapid heating, uniform heating, and product quality upgrading, etc.

Nowadays, microwave drying technology is widely used in food industry. Such as agricultural products processing, chemical materials, medical materials and biotechnology industry, textile industry, ceramic industry, rubber processing, and laboratory analysis, etc. Moreover, microwave application includes increasing the added value of finished products or products with high economic value.

## PRODUCT FEATURE



Drying rapidly



Easy control



High heat efficiency



Heating evenly



Safe design



Environmental optimization

# APPLICATION OF MICROWAVE IN INDUSTRIAL

**Rubber:** Suitable for solid tires and shock-proof rubber, fireproof rubber, rubber polymerization heating, etc., and other rubber materials that need to be dried.

**Food:** The purposes of food drying are food maturation process, food sterilization and mold prevention, tea de-greening and drying, raw material drying, and food drying processing for nuts, coated peanuts, almonds, and roasted beans. And oven drying for medical drugs and Chinese herbal medicines, food defrost, or drying for snack foods and instant foods, etc.

**Chemical:** Suitable for the chemical industry for plastic, resin foaming, iron products drying and hardening, and kiln ceramic molding, etc., any chemical reactions that need to heating, drying, dehydration, and molding.

**Lumber & Paper:** Suitable for processing of wood products which need heating and drying. The drying process of stick wood plywood, insecticidal treatment or moisture dehydration of wood are also suitable. And the drying requirement in the production process of paper/pulp/carton.

**Fiber & Print:** Suitable for dehydration and drying process for heat treatment and extension treatment of synthetic fibers, nylon materials and water paint dyeing, etc.

**Others:** Suitable for any processes that require drying, dehydration, baking, and sterilization products. Such as soil sludge sterilization, or application of medical materials and biotech products, etc.

## MICROWAVE APPLICATION



Microwave



Microwave+Hot air+Infrared



Microwave+Hot air

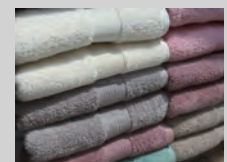


Microwave+Oil frying

## APPLICATION



Rubber stopper



Cloth



Rice cake



Chemical material

## MECHANICAL SPECIFICATIONS

Machine size (L*W*H)	Inner size (L*W*H)	Power supply	Weight	Microwave power	Hot-air power	Electric heater power	Timing range
890*500*679 (mm)	360*320*295 (mm)	220V 60Hz 1Φ	97kg	1kW	1.2kW	2kW	6sec ~ 600hr