

Hiroden

Microwave Continuous Heating Equipment



Microwave

Microwave Heating Equipment originally designed engaged in Products Characteristic and Microwave Technology

Specific Feature of original Microwave Continuous Heating Equipment

1 High Speed Heating

Microwave is absorbed in water and vibrates water molecule 2.45 billion times per second. Friction heat by the vibration could have high speed fever.

2 Small loss of Flavor

High speed heating save the loss of food flavor.

3 Effect of sterilizing

Depend on heating temperature, effect of sterilization could be expected.

4 Compact

Microwave heating type is compact compared with other type and continuous heating is achievable.

5 Superior Safety

Protection of Microwave leakage is perfect and minimum maintenance is required except tube value exchange.

6 Simple and Economy Operation

As Hiroden control technology is concentrated, operation method is simple.

7 Ecology & Energy Saving

Environment friendly and contributing CO₂ saving.



Microwave Heating Forming Example



Microwave Heating Equipment Line Up (Sample)

Treatment volume is depends on initial temperature, heating temperature, heated work (food). Following figure is calculated based on water and heating range of 70°C.

Microwave Continuous Heating Equipment			
Type	Microwave Power		Treatment Volume Rough figure based on water at 70°C
	(kWxnumber of unit)	(kW)	
HMT06-03	2x3	6	50
HMT12-06	2x6	12	100
HMT18-09	2x9	18	150
HMT24-12	2x12	24	200

- Customizing is available depends on special request.
- Trial test in Hiroden Factory and trial rental are also considerable.

Tube Type Microwave Continuous Heating Equipment (HMT12-06)



Profile

Forming (molding) Pipe is installed in the Microwave heating cavity and filled pasted meat in the pipe is formed to the shape freely.

Application which could expect Resource and Cost Saving

- (1) Forming Fish Meat Cake, Boiled & fried etc.
- (2) Roast Pork, Sausage, Hamburg Production Line

Conveyor Type Microwave Continuous Heating Equipment (HMC12-06)

Conveyor type of so effortlessly work !



Profile

Processed material on the conveyor is heated momentary when it passes in microwave heating cavity. As Microwave power, Conveyor speed could be settled freely, heating temperature and production volume could be adjusted with total line performance.

Application which could expect Resource and Cost Saving

- (1) Secondary heating and sterilizing of food.
- (2) Drying of addition to food and particles (including chemicals)

Microwave Vacuum Drying Equipment (HMD02-01)

Low temperature and high speed drying realizes minimum drop of quality



Profile

Moisture is boiled in low temperature and discharged to dry condition. Due to drying in low temperature, quality drop of material is minimized. And distilled liquid could be extracted by cooling steam through condenser.

Application which could expect high performance

- (1) Drying of vegetable, sea weeds, fish
- (2) Drying of particles and slurry
- (3) Extraction of aroma oil
- (4) Feedstuff from leftover

High performance Microwave Generation Device (HMP02-01)

Microwave Power 1.4kW

Profile

Compact and saving space design. Simple operation by using touch panel. Monitoring power output and recording irregular operation USB memory could record time, temperature and power data on every free second.



Moisture measuring device

Profile

Drying and measuring time is shorter than hot air and halogen type. Microwave power control on measuring material temperature is available.



Hiroden co.,ltd.

4-15 Higashitanabe 1-chome
Higashisumiyoshi-ku,Osaka 546-0032, Japan
TEL:06-6626-6111 FAX:06-6626-6660
e-mail:hiroden@e-hiroden.co.jp
<http://www.e-hiroden.co.jp>