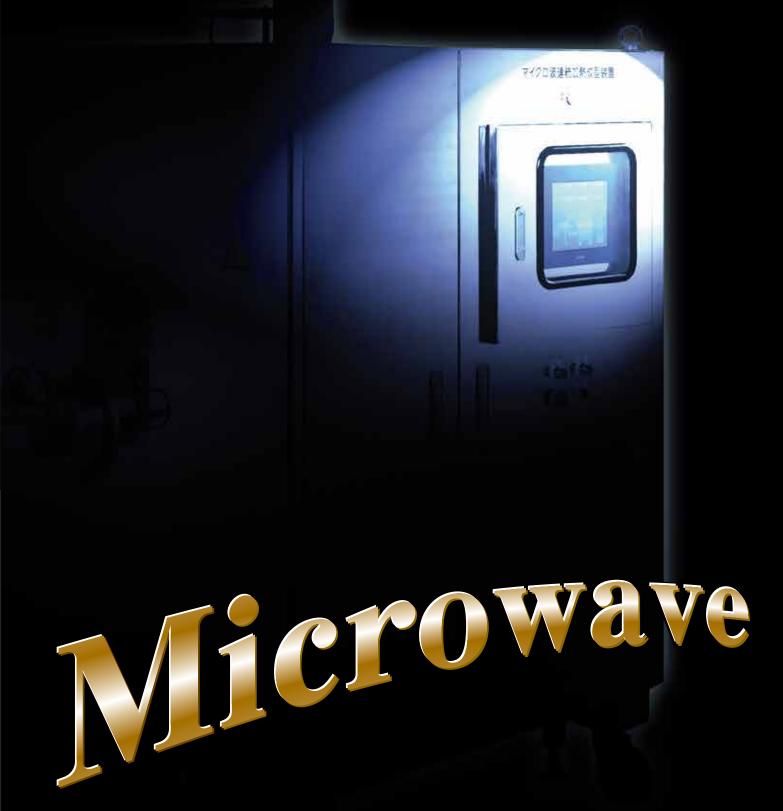
# Hiroden

# Microwave Continuous Heating Equipment



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

Specific Feature of original Microwave Continuous Heating Equipment

#### **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.

#### **Small loss of Flavor**

High speed heating save the loss of food flavor.

#### **Effect of sterilizing**

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

#### **Compact**

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

#### **Superior Safety**

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

#### **Simple and Economy Operation**

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

#### **Ecology & Energy Saving**

Environment friendly and contributing CO2 saving.

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#### Microwave Heating Equipment Line Up (Sample)

PERCENTRACTOR

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			
Туре	Microwave Power		Treatment Volume
	(kW×number of unit)	(kW)	Rough figure based on water at 70℃
HMT06-03	2×3	6	50
HMT12-06	2×6	12	100
HMT18-09	2×9	18	150
HMT24-12	2×12	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)



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

#### 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

## Conveyor Type Microwave Continuous Heating Equipment (HMC12-06)

#### Conveyor type of so effortlessly work!



Processed material on the conveyor is heated momentary when it passes in microwave heating cavity.

As Microwave power, Conveyor speed could be settled freely,

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)

#### High performance Microwave Generation Device (HMP02-01)



#### Microwave Power 1.4kW



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





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

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