

# Refrigerated Tissue Homogenizer

**IG-III HM**



**IGENE LABSERVE**

Innovative • Interactive • Intuitive

# FEATURES & SPECIFICATIONS

## DESCRIPTION

High speed low temperature tissue grinding instrument can reach  $-30^{\circ}\text{C}$  low temperature environment, is the use of vertical vibration system high speed reciprocating movement, so that the grinding tube frozen samples and grinding beads collide with each other, the grinding shear force and impact force generated completely broken tissue, It is a special equipment for rapid one-time processing of multiple samples in research institutes, universities, agricultural colleges, biological medicine, food testing and other fields.

## FEATURES

- ❖ The sample can be dry grinding, wet grinding and homogenization treatment;
- ❖ Up to 24 samples can be processed simultaneously, and sample preparation can be completed quickly and with high throughput;
- ❖ Adapters of different capacities can be replaced with 2ml, 5ml, 10ml and 50ml;
- ❖ A wide range of samples can be processed:
  - 1). Suitable for grinding and crushing of various plant tissues, including roots, stems, leaves, flowers, fruits, seeds and other samples
  - 2). Suitable for grinding and crushing of samples of various animal tissues including brain, heart, lung, stomach, liver, thymus, kidney, intestine, lymph node, muscle, bone, etc.;
  - 3). Grinding and crushing suitable for the analysis and detection of food and drug ingredients;
- ❖ The enclosed disposable centrifugal tube can effectively avoid cross-contamination between samples.
- ❖ The experiment has strong repeatability. The same grinding effect can be obtained by setting the same grinding frequency and time.
- ❖ Refrigeration function:  $-30^{\circ}\text{C}$  to room temperature; Temperature control accuracy:  $\pm 1^{\circ}\text{C}$ .
- ❖ Fast refrigeration: the temperature drops to below zero within a short time after starting the machine to prevent degradation.
- ❖ Emergency stop button: can be taken at any time in the grinding process, the instrument will stop running, fast and safe.
- ❖ Electromagnetic safety lock: the electromagnetic lock cannot open the cover during the working process, until the end of the grinding process, the whole process of protection.
- ❖ Adopt the special vibration mode of up and down and left and right shaking three-dimensional integration, the sample in the space is a figure 8 three-dimensional movement, grinding more fully, better stability.
- ❖ Preset 10 groups of common tissue grinding parameters to optimize grinding conditions of different specimens.
- ❖ Optional 60-hole adapter can be installed to upgrade to 60 samples per grinding to further improve grinding efficiency.



# SPECIFICATIONS

<b>Model number</b>	<b>IG-III HM</b>
<b>Display</b>	Touch screen
<b>Homogenizing frequency</b>	0-70 Hz
<b>Max. Speed (rpm)</b>	2100 rpm
<b>Time range</b>	0-9999 min
<b>Temperature range</b>	-30°C to room temperature
<b>Preset Programs</b>	10
<b>Sample Sizes</b>	2ml, 5ml, 10ml and 50ml
<b>Noise</b>	<65 dB
<b>Power</b>	500W
<b>Dimensions (W×D×H)</b>	500×365×370 mm
<b>Weight (kg)</b>	55.0 kg
<b>Power Supply</b>	AC 220V, <6A

