

HIGH-SPEED TISSUE HOMOGENIZER



CONTACT US

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ABOUT THE COMPANY

iGene Labserve Pvt. Ltd. is gaining recognition by offering resilient, innovative solutions in laboratory instrumentation across healthcare, genomics, drug discovery, biopharma, and food & beverage sectors. We strive to enhance lab efficacy and reduce challenges through advanced technologies and a diverse product portfolio tailored to our customers' needs.

DESCRIPTION

The IG-III HM high-speed tissue homogenizer is a state-of-the-art instrument designed for efficient and precise sample preparation. It features a vertical shock system with high-speed reciprocating motion, ensuring optimal grinding performance. This mechanism enables frozen samples and grinding beads within the grinding tube to collide, generating both shear and impact forces. These forces completely break down tissues, making the device highly effective for various applications in research institutions, universities, agricultural research, biomedicine, food testing, and related fields.

Whether for dry grinding, wet grinding, or homogenization, this instrument ensures rapid, reproducible results across a wide range of sample types, enhancing productivity and reliability in laboratory workflows.

FEATURES

- **Versatile Applications:**
 - Suitable for dry grinding, wet grinding, and homogenization treatments.
 - Capable of processing up to 24 samples simultaneously with high efficiency.
- **Supports a wide range of sample types:**
 - Plant Tissues: Roots, stems, leaves, flowers, fruits, seeds, and more.
 - Animal Tissues: Brain, heart, lung, liver, stomach, kidney, bone, etc.
 - Food & Drug Analysis: Accurate Grinding and Crushing for Ingredient Identification.
- **Advanced Safety Mechanisms:**
 - Enclosed Centrifugal Tubes: Prevents cross-contamination between samples.
 - Emergency Stop Button: Ensures immediate halting of operation when needed.
 - Electromagnetic Safety Lock: Protects users by securing the cover during operation.
- **Optimized Grinding Performance:**
 - Vertical shock system with high-speed reciprocating motion, ensuring optimal grinding performance.
 - Preset 10 grinding programs tailored to different specimens for reproducibility and convenience.

PARAMETER	IG-III HM
Display	Touch screen
Sample processing	24 Samples
Homogenizing frequency	0-70 Hz
Max. Speed (RPM)	2100 RPM
Time range	0-9999 min
Preset Programs	10 Preset Programs
Adapters	Standard rotors and adapters are: 2ml X 24 and 0.5ml X 24 Variant of rotors and adapters: 2ml X 24, 2ml X 32, 2ml X 48, 2ml X 60, 5ml X 12, 10ml X 10, 30 ml X 4 and 50ml X 2
Noise	≤65 dB
Dimensions (W×D×H)	265 × 365 × 366 mm
Weight (Kg)	45 Kg
Power Supply	AC 220V, ≤6A



Adapters : 2ml X 24



Adapters : 2ml X 60



Stainless steel pen / Zirconia beads pen



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