

# Technical Features

Technology	Bead beating
Interface	Touch screen
Controls	Programmable settings for frequency, running time and pause time between cycles
Custom Programs	Yes, up to 10 programs
Time Range	Up to 9999 min
Set Cycle Time Gap	Yes
Homogenization Frequency	1 - 70 Hz
Acceleration	2 seconds to reach maximum speed
Dimensions	460 × 460 × 530 mm (L×W×H)
Weight	35 kg (77 lbs)
Power Requirement	220-240V~50 Hz, 2.5 A, 375 W
Operating Air Temperature	10 to 40 °C (50 to 104 °F)
Relative Humidity	<70%
Maximum Noise Emission	65 dB



# Features and Benefits



## Versatile

Compatible with a wide range of samples and applications  
Interchangeable adapters and cans  
Room temperature or cryogenic process  
Dry or liquid process



## Lab-friendly

User-friendly interface with intuitive touchscreen  
Automatic and user-defined programs  
Limited noise level  
No cross-contamination between operations  
One minute run cycle



## High Throughput

Up to 64 samples processed simultaneously



## Small Footprint

46 x 46 x 53 cm

Visit us on the Web at [geneye.com](http://geneye.com)  
Contact us at [info@geneye.com](mailto:info@geneye.com)

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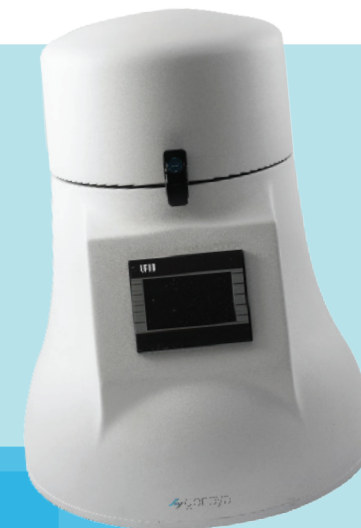
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# UPHO

## Ultimate Sample Homogenizer

Disrupt and process several samples for more accurate results

Versatile, lab-friendly and affordable



## Adapters and Cans

Material: metal, plastic, PTFE and steel  
Volume: 2, 5, 10, 15, 50 mL



## Beads

Material: metal, glass, ceramic and steel  
Diameter: 0.1 to 15 mm



## Plant tissue

Roots, stems, leaves, flowers, fruits, seeds

## Animal tissue

Brain, heart, lung, stomach, liver, thymus, kidney, intestine, lymph node, muscles, bones, skin



## Fungi and Bacteria

Culture, enrichment broth

## All types of food



## Laboratory Applications

Sample preparation  
Grinding  
Homogenization  
Material dispersion  
DNA, RNA, protein and chemicals extraction  
Cell fractionation  
Organelle isolation



## Market Applications

Pharmaceuticals and cosmetics  
(Drug discovery process, toxicity and dosage)

Molecular biology research

Food science (Determination of preservatives, microbiology, pesticides, residues, growth hormones, antibiotics)

Forensic/Toxicology (Identity confirmation, poisoning/overdose)

*"UPHO is very intuitive."*

*"The reaction tubes and steel cans fit easily into the adapters."*

*"The powder that was produced from plant samples was of the same quality or even more finely ground than competition."*

*"The frequencies applied were higher than competition, without causing damage to the vials"*



Feedback of Dr. Simon Stutz  
University of Stuttgart

Samples: *Arabidopsis* leaves, rosettes and roots