

## Spex SamplePrep 2010 Geno/Grinder®

- Enables increased throughput, improved extraction efficiency and reproducibility
- Designed for rapid cell disruption, cell lysis and tissue homogenization through bead beating
- Ideal tool for the QuEChERS method



# 2010 Geno/Grinder®

## Automated Tissue Homogenizer and Cell Lyser

The Geno/Grinder® is an automated high-throughput plant and animal tissue homogenizer and cell lyser. It is equipped with an adjustable clamp that accommodates a full range of sample vials from 2 mL to 50 mL centrifuge tubes or up to six deep-well titer plates. It is specifically designed for rapid cell disruption, cell lysis and tissue homogenization through bead beating. This enables fast and efficient extraction of nucleic acids, proteins and other molecules. The Geno/Grinder incorporates a password-protected, touch screen control panel, enabling the user to program run time, rate, cycles and pause time.

A full range of Kryo-Tech accessories are available to preserve temperature-sensitive samples such as proteins and RNA. The Geno/Grinder is also recognized as an excellent automatic axial extractor. It is the ideal tool for the QuEChERS method used for extracting pesticide residues and other organic compounds.

The Geno/Grinder enables increased throughput, improved extraction efficiency and reproducibility over traditional sample preparation methods. A full range of pre-loaded sample vials for different sample types is also available for fast and simple setup.

**Typical applications:** tissue homogenization, DNA/RNA research and extraction, cell lysis, pesticide residue extraction, protein and metabolite extraction, biofuel research, and QuEChERS.

**Typical samples:** animal tissue, plant tissue, cell cultures, fruit, cannabis, seeds, yeast, and microorganisms.

## Before & After Samples

### Seeds



Programmable touch screen



Automated mechanical disruption through bead beating



Designed for vigorous up-and-down shaking



Easy data transfer

# Specifications

## 2010 Geno/Grinder

Clamp Movement	1.25 in (3.2 cm) vertical
Clamp Speed	Adjustable from 500 to 1750 strokes/minute
Timer	Digital display in minutes:seconds (max 20:00)
USB port	Run history is recorded and can be exported
Voltage	115 V/60 Hz or 230 V/50 Hz
CE Approved	Yes
Dimensions	14 in (35.6 cm) wide x 22.5 in (57.2 cm) deep x 28 in (71.1 cm) high
Net Weight	100 lb (45.5 kg)
Motor	1/2 hp
Power Cord	3-prong grounded plug, 115 V/60 Hz or 2-prong grounded plug, 230 V/50 Hz

## Ordering Information

EQUIPMENT	
Product Name	Part Number
2010 Geno/Grinder, 115 V	2010-115
2010 Geno/Grinder, 230 V	2010-230



**2010 Geno/Grinder**  
Automated Tissue Homogenizer  
and Cell Lyser

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