

# HIGH-THROUGHPUT CRYOGENIC GRINDER

## Sample Compatibility:

- ◆ Plant Tissues: Roots, Stems, Leaves, Flowers, Fruits, Seeds, etc.
- ◆ Animal Tissues: Brain, Heart, Lungs, Stomach, Liver, Thymus, Kidneys, Intestines, Lymph Nodes, Muscles, Bones, etc.
- ◆ Fungi and Bacteria: Yeast, Escherichia coli (E. coli), etc.
- ◆ Food and Pharmaceuticals: Various types of foods, Tablets, etc.
- ◆ Volatile Samples: Coal, Oil Shale, Wax Products, etc.
- ◆ Plastics and Polymers: PE (Polyethylene), PS (Polystyrene), Textiles, Resins, etc.

## Common Accessories (Adapters/Grinding Beads/Grinding Vessels/Filling Gun, etc.)

### Specifications

24\*2ml Standard/24\*2ml Cooling  
 48\*2ml Standard/48\*2ml Cooling  
 64\*2ml Standard/64\*(0.2~0.5ml) Customized  
 12\*5ml Standard/12\*5ml Cooling  
 8\*10ml Standard/8\*15ml Standard  
 4\*2ml/8\*2ml Grinding Vessel  
 4\*5ml/10ml/15ml Grinding Vessel  
 4\*15ml PEEK Vessel  
 2\*50ml Standard  
 2\*25ml/50ml Grinding Vessel/PEEK

\*Note: Comes with 24/48/64\*2ml adapters, 3mm & 5mm stainless steel or zirconium oxide grinding beads.



Zirconia



Stainless steel



LAWSON Chou  
WhatsApp

# HIGH-THROUGHPUT CRYOGENIC GRINDER

## Product Introduction

high-throughput cryogenic grinder / Cryo mill / Tissue Homogenizer

Instrument is also known as a Multi-Sample Tissue Grinder, Rapid Tissue Homogenizer, Multi-Sample Tissue Homogenizer, and Rapid Sample Homogenization System.

high-throughput cryogenic grinder is a specialized, fast, efficient, and multi-tube homogenization system. It can extract and purify raw DNA, RNA, and proteins from various sources, including tissues/organs of soil, plants, and animals, as well as bacteria, yeast, fungi, spores, ancient biological specimens, etc. In comparison to existing sample preparation methods, it offers broad applicability, high efficiency, and flexibility. This system eliminates the labor-intensive, time-consuming, and inefficient aspects of traditional methods such as grinding, homogenization, and ultrasonic treatment, enabling efficient, rapid, and stable disruption and purification of nucleic acids and proteins from various types of samples.

Technical Parameters	DHFSTPRP-24	DHFSTPRP-48	DHFSTPRP-64
Model			
Homogenization Speed★	0 to 70 Hz/second, Operating Time: 0 seconds to 999 minutes, User-configurable		
Processing Capacity	Maximum processing of samples within 15 seconds, capable of simultaneously handling 24/48/64 2ml samples		
Anti-Vibration Principle▲	Innovative DHFSTPRP-1 anti-vibration principle, as well as three-dimensional motion in vertical and horizontal directions, Innovative movement pattern of grinding beads to ensure maximal sample processing and instant pulverization effect.		
Compatible Processing Volume▲	64*(0.2-0.5ML)/64*2ML/24*5ML/12*(7-15)ML/2*25ML/2*50ML and customized		
Data Storage★	Up to ten sets of data can be stored based on different experimental samples, including patterns for animal hearts, spleens, lungs, kidneys, bones, skin, and hair, among others.		
Cycling Mode★	Based on set experimental parameters, cyclic operation between pre-configured parameters to reduce interference from human factors.		
Final Particle Size	~5µm		
Grinding Platform/Securing	≥2, with automatic center positioning		
Grinding Ball Diameter/Material	0.1-30mm, Alloy Steel, Chromium Steel, Zirconia, Tungsten Carbide, Quartz Sand;		
Acceleration/Deceleration	Reaching maximum speed within 2 seconds		
Noise Level	<55db		
Grinding Modes	Wet Grinding, Dry Grinding, Low-Temperature Grinding all available		
Dimensions/Weight	400*340*530mm / 30kg		
Upgradeable Features▲	Capability to upgrade to ultra-low-temperature liquid nitrogen freezing or air cooling refrigeration		