

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.
- Nucleic Acid/Protein Extraction

Low-temperature sample homogenization effectively inhibits nucleic acid degradation and preserves protein activity.

- Analysis of Pharmacologically Active Compounds

Significant differences often exist between isomers of active pharmaceutical ingredients. Low-temperature homogenization can prevent molecular degradation due to pressure and heat.

- Reduction of Sample Volatility

Low-temperature homogenization significantly reduces sample volatility, preserving sample component content more completely.

- Homogenization of Tough/Rigid Samples

For challenging samples such as highly ductile plastics, high-strength plastics, and resins, low-temperature homogenization greatly enhances grinding effectiveness and efficiency.

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

Technical Parameters	DHFSTPRP-CL24	DHFSTPRP-CL48
Application fields	Organ grinding, homogenization, cell disruption, tissue pulverization, material dispersion, preparation, sample mixing, and oscillation	
Processing capacity	Maximum processing capacity of 24 /48samples in 15 seconds, with integrated compressor cooling	
Compatible sample tubes	24/48*(0.2-0.5ML) /24/48*2ML /6*(7-15)ML /2*25ML /2*50ML	
Display	Touch screen display for convenient and intuitive operation	
Data storage	Can store ten sets of experimental data, with animal heart, spleen, lung, kidney, bone, skin, and hair patterns set according to different experimental samples	
Cycle mode	According to the set experimental parameters, it can cycle continuously between several pre-set parameters, further reducing interference from human factors	
Maximum feeding size	No requirement, adjustable according to the adapter	
Cooling function	Yes, adjustable from -30°C to 37°C	
Temperature control accuracy	+ 0.5°C	
Open lid operation protection	Electromagnetic lock	
Final discharge particle size	~5µm	
Number of grinding platforms	(acceptance of grinding jars) > 2	
Fastening device	with automatic center positioning	
Homogenization speed	0~70 Hz/sec, working time: 0 sec~99 min, user-settable	
Diameter of grinding balls	0.1~30mm	
Material of grinding balls	alloy steel, chrome steel, zirconium oxide, tungsten carbide, quartz sand	
Acceleration	reaches maximum speed within 2 seconds	
Deceleration	reaches minimum speed within 2 seconds	
Noise level	<55db	
Grinding mode	wet grinding, dry grinding, and low-temperature grinding are all possible	
Safety instructions	with automatic center positioning and safety lock during operation for full protection	
Material of grinding kit	hard alloy, polytetrafluoroethylene (Teflon), zirconium oxide	
Dimensions	630*300*480mm	
Weight	58 kg	