

Fastening type grinding can:

- Dry grinding
- Wet grinding
- Superfine grinding
- Mechanical alloying
- Freezing grinding



Rinding tank capacity	maximum sample-in size	Recommended ball used						
		2mm	3mm	12mm	15mm	20mm	25mm	30mm
2.00ml	1mm	3-4	2-3					
25.00ml	6mm	When the capacity of the tank is large, we recommend that you choose a grinding ball with a slightly larger diameter		2-3	2-3	1	1	
50.00ml	8mm			2-3	2-3	1	1	1
50.00ml	9mm			2-3	2-3	1	1	1
80.00ml	9mm			2-3	2-3	2-3	1	1
100.00ml	10mm			2-3	2-3	2-3	1	1
160.00ml	12mm	Optimal grinding results with spiral mixing samples						

Order information

Item No.	Item
57C1102A	HF Extract High-throughput grinder

HF Extract Grinding tank

Item No.	Material	Volume
8721123A	Rigid steel	25ml
8721124A	Stainless Steel	5ml
8721125A	Stainless Steel	10ml
8721126A	Stainless Steel	25ml
8721127A	Stainless Steel	35ml
8721128A	Stainless Steel	50ml
8721129A	Tungsten Carbide	10ml
8721135A	Tungsten Carbid	25ml
8721130A	Agate	10ml
8721131A	Zirconium oxide	10ml
8721132A	Zirconium oxide	25ml
8721133A	Zirconium oxide	35ml
8721134A	Tefflon (poly tetraflfluoride)	25ml
8721156A	Tefflon (poly tetraflfluoride)	35ml

Accessories

Item No.	Material
8721136A	Grinding tank cover tightening handle for grinding tanks of all materials
8721137A	Seals for 25ml stainless steel grinding tanks
8721138A	Seals for 35ml stainless steel grinding tanks
8721139A	Seals for 50ml stainless steel grinding tanks
8721140A	Suitable for 25ml zirconia grindingtank
8721141A	Suitable for 35ml zirconia grindingtank
Suitable for the fragmentation of cells and fifibrous tissue	
8721142A	Cryogenic tool set for liquid nitrogen cooling grinding tank
Suitable for the fragmentation of cells and fifibrous tissue	
8721143A	Adapter: PTFE made, receiving 5 reaction bottles, reaction bottle specifications of 15ml and 2.0ml, plastic made
8721144A	Adapter: PTFE made, receiving 10 reaction bottles, reaction bottle specifications of 1.5ml and 0ml, plastic made
8721145A	Adapter: TFE made, receiving 6reaction bottles, reaction bottle specification of 5ml, plastic made
8721146A	Adapter: PTFE made, receiving 6 reaction bottles, reaction bottle specifications for PCmaterial, 5ml
8721147A	Adapter: PTFE made, receiving 24 reaction bottles, reaction bottle specifications of 15 ml and 20ml, plastic made
8721148A	Adapter, receiving 96 reaction bottles, reaction bottle specifications for 0.2-1.2ml eight tubes, plastic made
8721149A	Adapter, receive 96 reaction bottles, reaction bottle specifications for 0.2-1.2ml, one sample plate, plastic made
8721150A	Adapter: Stainless steel made, receiving 4 reaction bottles, reaction bottle specification of 50ml, stainless steel made
8721151A	Adapter: PTFEmade, receiving 12 reaction bottles, Reaction bottle specification of 5.0ml, PC
8721157A	Adapter: PTFE made, receiving 12 reaction bottles, Reaction bottle specification of 5.0ml, plastic
8721152A	Adapter: Stainless made, receiving 4 reaction bottles, reaction bottle specification of 500ml, plastic
8721153A	96 Hole Sample Plate Bead Distributor, 0.3mm
8721154A	96 Hole Sample Plate Bead Distributor, 0.5mm
8721155A	Centrifugal Tube 2ml. 100 pieces/bag Plastic made
8721158A	Centrifugal Tube 5ml. 100 pieces/bag Plastic made
8721159A	Centrifugal 5ml, made of stainless steel for hard grinding
8721160A	Centrifugal 5ml, made of polycarbonate for hard grinding
8721161A	Centrifugal Tube 50ml. 20 pieces/bag Plastic made



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HF Extract High-throughput grinder



Moreefficient grinding



Wide Range



Easier to operate



Safe to use

18-month warranty

More efficient grinding

Through the horizontal arc high-speed radial oscillation, the grinding ball in the grinding container collides with the sample, and the final sample size is less than 5μm.

Wide Range

With two grinding platforms for different tubes, grinding tanks or adapters, it is suitable for dry, wet and freeze grinding methods.

Easier to operate

Grinding time, vibration frequency can be freely adjusted, advanced LED 5-inch touch screen can be set, stores a variety of grinding procedures.

Safe to use

Integrated motor switch to ensure safe operation, with a safety chain device, unique EasyClamp system fastening grinding tank, upper cover transparent window allows the operation's observation.



Frozen Grinding Kits

Insulation box, grinding tank fixture, goggles. Pre-frozen samples by liquid nitrogen and grinding tanks can be ground for thermal sensitive samples such as plastics and rubber.

Little Bead Distributor

Suitable for grinding ball distribution of 96-hole sample plates, with 3 mm and 5mm two sizes available. Choose.



A variety of materials microporous tubes and low temperature accessories

Ordinary plastic, PC, PTFE and stainless steel microporous tubes, can be paired with stainless steel materials, zirconia or tungsten carbide and other materials of the ball, suitable for small samples of low temperature grinding or a small amount of hard, brittle samples of standardized grinding.

Microporous tube Fixers for cell breakage:

- In response to the requirements of high-throughput screening analysis, Extract can efficiently and safely break multiple samples such as spores, microorganisms, cereals, seeds, plant blades, animal and plant tissues, soil and other types at once.
- Samples and extracts, small metal balls, or ceramic balls are placed in a microporous tube, and after 2 minutes of grinding, more than 95% of the cells are broken. Microporous tubes and grinding balls can be used once, especially for PCR, PAGE, Probe and other strict requirements, to eliminate cross-contamination between samples analysis methods.
- The HF Series offers 5, 10, 24 hole adapters for 1.5 and 2.0ml microporous tubes, as well as a 6-hole adapter for 5ml centrifugal tubes and 96-hole adapters for 1.2 ml deep orifice plates.

Technical parameters

Sample-in size	< 10mm
Sample-out size	< 5μm (Depending on the properties of sample)
Vibration speed	180-1800 rotations/min
Time range	00:01-99:59 (min/s)
Sample volume	0.2-20ml
Rated Power	200W
Rated voltage	220V, 50Hz
Instrument size	366*502*335mm
Packaging size	460*380*660mm
Instrument weight	34KG



Operation process



Grinding comparison

