

# Grinder



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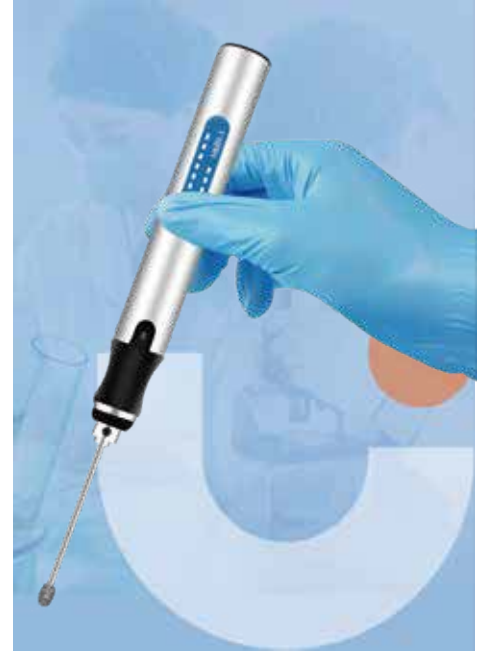
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## Portable grinder

HMR-1 Handheld Grinder is a portable grinder that can be used in experiments in biology, proteomics and other fields. The equipment for grinding and mixing micro-tissue samples is a kind of equipment that relies on a motor-driven grinding head. Small tissue grinder with rechargeable battery. It can grind tissue samples in a 1.5ml centrifuge tube, which has the effect of grinding and mixing, and can reduce the loss of samples during operation. The grinder is small in size, light in weight and low in power consumption.


### Product Features

- 3-speed adjustable speed, fast and efficient operation, light and small product, fast and efficient one-hand operation and low power consumption;
- The grinding pestle is easy to disassemble, not easy to wear, and can be sterilized at high temperature. It comes standard with 3 diamond grinding pestles and a USB charging device;
- Better grinding effect, more portable and environmentally friendly, and easy to use;
- Suitable for grinding and crushing various plant tissues, animal tissues and cell samples;
- Can be used in conjunction with common DNA/RNA extraction kits to effectively reduce sample loss during operation.



### Technical parameters

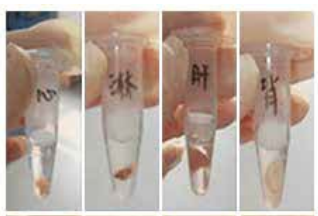
Model	HMR-1
Item No	1019013001
Power Supply	Battery
Battery Capacity(mAh)	300
Rated Input Power	10W
Speed range	5000/10000rpm/18000rpm
Speed function	3 gears adjustable
Capacity	≤1.5ml
Battery life	>1h
Charging time	80% charge in 30 minutes, full charge in 60 minutes
Disc Diameter	3mm
Clamp Depth	25mm
Exterior Dimension	125*16mm
NW	0.086KG




**Interesting little science experiment**

Comparison of Grinding Effects of Plant Samples


before grinding




Comparison of animal samples before and after grinding



1 Put the plant sample in the test tube




Grinding with HMR-1



3 Comparison before and after grinding Clear separation, good effect

after grinding



## Tissue Grinder

The Multi-Sample Tissue Grinder is a special, fast, high-efficiency, multi-tube consistent system. This instrument is also known as tissue grinder, rapid tissue grinder, multi-sample tissue homogenizer, and rapid sample homogenization system. It can extract and purify raw NDA, RNA and protein from any source (including soil, plant and animal tissues/organs, bacteria, yeast, fungi, spores, paleontological specimens, etc.).

### Product Features

- The number of operations is large and the effect is good; the efficient and fast work can complete the grinding of 2x24, 2x48, 4x96 samples in one minute. The extracted protein has a higher specific activity and a longer calculated fragment;
- No cross-contamination: The sample tube is completely closed during the crushing process, and disposable centrifuge tubes and columns can be used. The sample is completely retained in the tube to avoid cross-contamination between samples and external contamination;
- Convenient for low-temperature operation; when a low-temperature grinding environment is required, the adapter with the sample can be immersed in liquid nitrogen to cool for 1-2 minutes, and then moved to the host to quickly fix it to start grinding without re-freezing, saving liquid nitrogen;
- Good repeatability; set the same procedure for uniform tissue samples to obtain the same grinding effect, short working time, and the sample temperature will not rise.



### Technical Parameters

Model	HM-24	HM-48	HM-64	HM-96
Item No	1019001001	1019002001	1019010001	1019003001
Sample capacity	24*(0.2-0.5)ml	24*(0.2-0.5)ml	24*(0.2-0.5)ml	24*(0.2-0.5)ml
	24*2ml	24*2ml	24*2ml	24*2ml
	6*(7-15)ml	6*(7-15)ml	8*(7-15)ml	12*(7-15)ml
	2*25ml	2*25ml	2*25ml	2*25ml
	2*50ml	2*50ml	2*50ml	2*50ml
Display mode	LCD Screen			
Sample in size	No requirements, according to the adapter to adjust			
Sample out size	5um			
Grinding platform quantity	>2			
Homogenizer Speed	0-70hz			
Shaking speed	0-2100 times/min			
Working time	0-9999min, Users can set by themselves			
Grinding ball diameter	0.1-30mm			
Grinding Ball Material	alloy steel, chromium steel, zirconia, tungsten carbide, quartz sand;			
Noise level	<55db			
Grinding method	wet grinding, dry grinding and low temperature grinding are all available			
Adapter material	PTFE (Teflon) or semiconductor			
Dimensions	280*400*560	340*400*500	340*400*500	400*520*660
Weight	23	30	30	60

## Multifunctional Freezer Grinder

HMD-400 multifunctional cooling crusher is specially designed for fine crushing and grinding of hard, mid-hard and crisp samples in lab. The sample range includes grain and oil seeds, soil, tobacco, wood, animal feed, cheese, fruits, bones, hair, Plant and animal tissues, fertilizers, electronic waste, sludge, alloys, coal, ore, chemical samples of academic products, plastics, ceramics, glass, DNA extraction, etc.



HMD-400

### Product features

- Large touch screen for operation and display, and the operation and setting are easy to understand;
- With memory function, it can store a variety of operating procedures;
- Intelligent control, grinding time and speed can also be set and displayed;
- The grinding results are highly repeatable;
- Fast grinding, short grinding time, can be used for rapid sample preparation for XRF analysis and large preparation capacity;
- Double tank grinding, and can provide high-throughput grinding for biological samples;
- A variety of different materials and volume grinding tanks are available, with a wide range of applications and no loss of wet grinding, screw-on and sealed grinding jar design;
- Comfortable cryogenic grinding, can be used for heat-sensitive materials without long freezing process, very low liquid nitrogen consumption;
- Broken walls of animal and plant cell tissues or suspension cells can process more than 10 samples at a time;
- Cryogenic grinding can prevent molecules from degrading due to pressure and heat;
- For most materials, it only takes tens of seconds to grind, mix and homogenize the sample.

### Technical parameters

Model	HMD-400
Item No	1019009001
Function	Crushing, grinding, mixing, homogenizing
Sample category	Hard, soft, brittle, elastic, hydrated, fibrous
Put in sample size(mm)	≤8
Mini put out sample size(um)	about 5-10
Batch capacity (ml)	≤2x20
min Normal crushing Time(min)	1-3
Grinding method	Dry grinding, wet grinding, cryogenic grinding, high flux grinding
Grinding tanks Qty	2
Grinding tanks category	Screw cap tank (multiple material options), porous plate (PTFE)
Vibration speed ( r/min)	60-1800
Frequency( Hz)	1-30
Grinding time	1s-99min59s
W Power (W)	250
Width x height x depth (mm)	300x240x460
W*H*D mm	620*500*340
Net Weight(kg)	about 28