

**POWTEQ®**



**Knife Mill HM100**

## ◇ Knife Mill HM100

The knife mill HM100 is used to process the soft, medium-hard, brittle and fibrous sample. It is special for high water, oil or fat content sample.



HM100

### ○ Sample type :

Soft, elastic, fibrous, water-bearing, oily, fatty, dry sample

### ○ Application example :

**Agriculture:** grain, feed, etc





**Biology:** mouse tissue, plant leaves, seeds, seedling and germ

**Medicine:** Chinese medicine, pills, etc

**Food:** dried melon, vegetables, frozen food, candy, preserved fruit, meat



### Application Examples

Before grinding	After grinding	Parameter	
		Sample	pork
		Speed setting	6000rpm
		Sample characteristic	high oil and fat
		Remarks	the feed size must be less than 2-3cm
		Time	30s
		Sample	chives
		Speed setting	5000rpm
		Sample characteristic	tough , fibrous
		Remarks	the feed size must be less than 4-5cm; use the gravity lid
		Time	1 min

## ○ Accessories



- ① **Grinding container autoclavable plastic:** High temperature and high pressure sterilization containers, meet strict hygiene standards of food and drugs. Suitable for soft, oily, water, fat and fibrous sample.
- ② **Grinding container stainless steel:** Applied for granules, shell, grain sample. Suitable for medium-hard, brittle, tough sample.
- ③ **Gravity lid:** for grinding small amount of samples with oil, fat, less water content.
- ④ **Gravity lid with overflow channels:** for grinding some fresh vegetables and fruits with a high water content.
- ⑤ **Knife of titanium alloy** — for grinding without heavy-metal contamination
- ⑥ **Knife** — 2 blades, stainless steel; serrated blade, for tough frozen meat

## ○ Working principle

The HM100 has two-blade knives at the center of the bottom of a grinding cup. A certain height gap is kept between the blades. Driven by a motor of 1,100W, the knives start rotating. Reliable crushing and homogeneous phase effects are generated via the cutting of the sharp steel knife edges. The blunt side can be selected for coarse grinding of bulk samples or the tough side for fine grinding of samples. The motor speed is electronically controlled and can be preset. The constant speed guarantees efficient and high-quality grinding homogenization. You just need 10 to 30 seconds to process samples that are usually hard to crush and get homogenized samples for analysis.

## ○ Features and advantages

- The sample volume up to 700ml
- Autoclavable container for choice
- Grinding container in various material
- Simple operation and quick start
- Strong motor power 1.1KW, speed adjustable
- Coarse grinding and fine grinding can be realized in one step
- Three modes optional: interval mode, reverse mode and press-and-play mode



## ○ Technical Data

HM100	
Feed size	< 40mm
Final fineness	< 300 μ m
Speed	2000-10000rpm
Time setting	0: 01-9: 59 ( min/s )
Batch quantity	150-700ml
Interval mode	Yes
Knives	stainless steel,titanium alloy
Number of blades	2
Rated power	1.1KW
Power supply	220V , 50/60Hz
Instrument size	260*343*454mm
Package size	480*550*720mm
Net weight	16kg