

POWTEQ®



Knife Mill HM300

◆ Knife Mill HM300

The knife mill HM300 is a newly designed product, which is especially suitable for grinding and homogenizing large amount of samples to the analysis level in a short time.

○ **Sample type:**

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

○ **Application fields**

Agriculture: grain, feed, etc

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

Medicine: Chinese medicine, pills, etc

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



HM300

***Especially suitable for large amount sample, such as: chicken bones, fresh fish, seafood, hazels, etc.**



Application Examples

Before grinding	After grinding	Parameter	
		Sample	apple
		Speed setting	2000rpm
		Sample characteristic	water
		Remarks	use the gravity lid with overflow channels
		Time	40s
		Sample	fish
		Speed setting	1500rpm
		Sample characteristic	soft
		Remarks	the feed size must be less than 10 cm; use the gravity lid
		Time	2 mins

○ Working Principle

The HM300 has four-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 1.5KW, 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.



○ Features and advantages

- 10 SOPs can be stored.
- It allows to dry grinding and wet grinding.
- 5 inch LED touch screen display, easy to operate.
- With interval mode, regular mode and reverse mode.
- Powerful brushless motor, the speed can be adjusted at the range of 500- 4000 rpm.
- Designed with double-deck 4 pieces of straight blades to ensure higher grinding efficiency.
- The mill designed with electromagnetic lock. It ' s safe and reliable. The cover can not be opened during grinding process.

○ Technical data

HM300	
Feed size	< 130mm
Final fineness	< 300 μ m
Speed	500~4000rpm
Time setting	00: 00-99: 59 (min/s)
Batch quantity	< 4L
Interval mode	Yes
Knives	stainless steel,titanium coating
Number of blades	4
Rated power	1.5KW
Power supply	220V , 50/60Hz
Instrument size	306*581*485mm
Package size	705*475*700mm
Net weight	40kg

○ Accessories



Grinding container



double-deck 4 pieces of straight blades