

## KNIFE MILL HM100



- Feed size □ <50mm
- Final fineness□□ 320μm

The Knife Mill HM100 is designed for processing soft, medium-hard, brittle, and fibrous samples, particularly those with high water, oil, or fat content.

## APPLICATIONS

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- Sample types: Soft, elastic, fibrous, water-containing, oily, fatty, dry samples.
- Examples of applications:
  - Agriculture: grains, feeds, etc.
  - Biology: mouse tissues, plant leaves, seeds, seedlings, and germs.
  - Medicine: traditional medicine, pills, etc.
  - Food: dried melons, vegetables, frozen food, candy, preserved fruits, and meat.

## FEATURES

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- Option for an autoclavable container
- Grinding container available in various materials
- Easy operation and quick startup
- Powerful 1.1KW motor with adjustable speed
- Achieve both coarse and fine grinding in a single step
- Three optional modes: interval mode, reverse mode, and press-and-play mode
- Equipped with overload protection and a safety lock design

## THEORY & METHOD

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### Working Principle

The HM100 features two-blade knives positioned at the center of the grinding cup's bottom. These blades maintain a certain height gap between them. When powered by a 1,100W motor, the knives begin to rotate. The sharp steel knife edges cut effectively, ensuring reliable crushing and the creation of uniform phase effects. You can opt for the blunt side 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. This consistent speed ensures efficient and high-quality grinding homogenization. It takes just 10 to 30 seconds to process samples that are typically difficult to crush, yielding homogenized samples ready for analysis.

Knife Mill

## TECHNICAL SPECIFICATIONS

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|                |                                 |
|----------------|---------------------------------|
| Feed size      | < 40mm                          |
| Final fineness | < 300μm                         |
| 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 (110V Also available upon request) |
| Instrument size  | 260*343*454mm                                    |
| Package size     | 480*550*720mm                                    |
| Net weight       | 16kg                                             |



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