

INNOVATIVE TECHNOLOGIES



Knife Mill

HM300



TORONTECH



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Discover the **Knife Mill HM300** – your ultimate solution for swiftly grinding and homogenizing abundant samples to perfection in record time.

Tailored for efficiency, it **effortlessly transforms a large quantity of samples into analysis-ready consistency, ensuring swift progress without compromising quality.**

Experience unparalleled efficiency and reliability with the Knife Mill HM300. Precision meets productivity for your grinding and homogenizing needs.



Feed Size:
< 130 mm

Final Fineness:
< 300µm

Speed:
500~4000rpm

APPLICATION

Sample Type

Soft, elastic, fibrous, water-containing, oily, fatty, dry samples.

Related Fields

- **Agriculture:**
Grains, feeds, etc.
- **Biology:**
Mouse tissues, plant leaves, seeds, seedlings, and germs.
- **Pharmaceutical:**
Medicine, pills, etc.
- **Food:**
Dried melons, vegetables, frozen food, candy, preserved fruits, and meat.
(*Particularly suitable for large sample quantities, such as chicken bones, fresh fish, seafood, hazelnuts, etc.)

Working Principle

The HM300 is equipped with four-blade knives positioned at the center of the grinding cup's bottom. These blades maintain a specific gap between them. When powered by a 1.5KW motor, the knives initiate rotation.

Effective cutting of the sharp steel knife edges ensures dependable crushing and the creation of uniform phase effects. You can opt for the blunt side to perform coarse grinding on bulk samples or select the tough side for fine grinding of samples.



PRODUCT ADVANTAGES

Versatile Grinding:

Capable of both dry and wet grinding for diverse sample types.

Intuitive Operation:

User-friendly 5-inch LED touch screen display for easy navigation.

Enhanced Efficiency:

Features a powerful brushless motor with adjustable speed (500 to 4000 rpm).

Safety Assurance:

Equipped with an electromagnetic lock for enhanced safety during grinding.

Customizable SOPs:

Store and access up to 10 Standard Operating Procedures (SOPs) for streamlined workflows.

TECHNICAL SPECIFICATION

ITEM	TECHNICAL PARAMETER
Feed size	< 130mm
Final fineness	< 300µm
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 (110V Also available upon request)
Instrument size	306*581*485mm
Package size	705*475*700mm
Net weight	40kg

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