

INNOVATIVE TECHNOLOGIES

# Auto-Knife Mill

HM600



TORONTECH



## AUTO-KNIFE MILL

### HM600

The **Auto-knife Mill HM600** is a specialized mill designed for the grinding and homogenization of food samples.

HM600 enhances grinding efficiency and minimizes human error, ensuring precision in the grinding process. It rapidly pulverizes samples to achieve analytical fineness and high homogenization within seconds.

Moreover, the entire grinding and knife-cleaning process is automated, streamlining sample preparation and meeting diverse laboratory analysis requirements efficiently.

Feed Size:  
**< 50 mm**

Final Fineness:  
**< 320 $\mu$ m**

Speed:  
**2000~10000rpm**

# APPLICATION

## Sample Type

HM600 is not only well-suited for finely crushing soft, mid-hard, brittle, and fibrous samples but also excels in milling and homogenizing watery, oily, and fatty samples.

It is capable of processing substantial quantities of various samples, including cereals, fruits, vegetables, livestock products, aquatic items, feeds, meat, sausages, fish, haslet, herbs, and more.

## Working Principle

HM600 is equipped with two double-blade knives located at the bottom center of the grinding jar. These knives are independently driven by two 750W motors. The instrument features six sample stations, allowing the processing of two samples simultaneously.

The knives have an automatic rise and fall mechanism, ensuring rapid grinding and homogenization. After testing, ultrasonic and solvent cleaning, as well as drying, ensure the knives are thoroughly cleaned. The dull side of the blades can be utilized for pre-grinding large-scale samples, while the sharp side is ideal for fine-grinding.



## PRODUCT ADVANTAGES

**Versatile Grinding Options:** Dual motors offer strong and adjustable speed control, allowing for both pre-grinding and fine grinding in one machine.

**Effortless Operation:** Enjoy simple operation with rapid startup and an intuitive control panel for setting interval, forward, and reverse modes.

**Customizable Accessories:** Choose from optional grinding sets available in stainless steel or PC materials, with the option for heavy metal-free accessories for purity assurance.

**Hygienic Maintenance:** Accessories can be sterilized at high temperatures, ensuring cleanliness and safety.

**Enhanced Efficiency:** Experience seamless workflow with versatile grinding options, effortless operation, and customizable accessories.

## TECHNICAL SPECIFICATION

ITEM	TECHNICAL PARAMETER
Channel qty.	2
Handling capacity.	6 samples/batch, 24 samples/hr
Speed	2000-10000rpm
Grinding jar capacity	1000ml
1000ml	LED screen, detachable and can be remote controlled via APP
Control system	microcomputer control of whole process of samples grinding and knives cleaning
Notify message	showing working process and rest time by steps, notify error info.
Cleaning modes	ultrasonic, detergent
Cleaning target	knife, knife carrier, press lid cleaning simultaneously
Grinding pattern	knife moving up and down when grinding to enforce grinding performance
Press lid	When grinding the lid will press down to reduce sample residue on jar wall
Quick Launch Button	1 or 2 tunnels working patterns; sample qty.; knife auto-cleaning modes; cycles times; tunnels cleaning.
Protection function	The ultrasonic cleaning will not be motivated but warning when there is no water inside
Peristaltic pump	external peristaltic pump head with qualified pump pipe
Motor power	750W per motor, dual motors


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