



Innovation Empowers Sample Preparation,
Intelligence Achieves Simplicity



AM600S
Knife Mill



蚂蚁源科学仪器（北京）有限公司

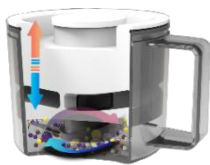
ANTS SCIENTIFIC INSTRUMENTS (BEIJING) CO., LTD.

AM600S Knife Mill

AM600S knife mill has been widely used in the food industry, not only for dry, elastic, fibrous, soft, medium-hard samples for effective grinding, but also for high moisture, high oil and high fat "three high samples" for rapid and effective homogenization to meet customer needs. The excellent grinding effect of AM600S mainly relies on high speed and diversified accessories. The powerful output of the industrial motor ensures a long grinding time, and multifunctional accessories are specially designed for difficult samples.



Working Principle



The cutter head of the AM600S is mounted on the motor shaft and is located in the center of the bottom of the grinding cup. The sample is first loaded into the grinding cup and after the instrument is commissioned, the rotary knife mounted on the motor shaft rotates to shear the sample. The knife head is available with a blunt or a tough side, depending on the sample, and the instrument speed is selectable, all of which ensure an efficient and high quality homogenization process.

Performance Advantages

- ◎High-definition touch LCD screen, digital visualization of parameters.
- ◎Built-in simplified, linkage, general and other intelligent operation modes.
- ◎Can store 10 groups, and the parameters can be linked to each other.
- ◎Can be operated intermittently, inversely, and on the spot.
- ◎The instruments are equipped with safety protection locking device to ensure the safety of operation.
- ◎With a wide range of accessories, such as saw teeth, flat scale rotary knife, gravity top cover, different materials, suitable for a wide range of samples.
- ◎The plug-and-play design of the grinding kit can be removed from the tray, so that the sample can be collected conveniently without loss.
- ◎All grinding kits are autoclavable.
- ◎High rotational speed, fast grinding speed. Compared with the old AM600S, the power is increased by 82%, so the sample making efficiency is higher.



Application



Crop seeds



Dried fruits
(nuts etc)



Meat &
Vegetables



Fishes



Frozen food



Fertilizers

Technical Information

Technical Parameters	AM600S Knife Mill
Sample Type	Dry, elastic, fibrous, soft medium-hard, water-containing, oil-containing, fat-containing
Feeding size	10-50mm
Final Fineness	Approx. 300um
Sample volume	Maximum 700ml
Speed	1000-15000rpm(customizable)
Knife diameter and peripheral speed	118mm/Approx. 6.2~92m/s
Application grinding range	Dry grinding, wet grinding, frozen grinding
Grinding cup volume and material	1L, stainless steel, PP, PC
Grinding time settings	1s-29min59s, digital display
Operating mode	Forward, reverse, intermittent, spot and linkage modes
Knife material	Stainless steel (regular, serrated), titanium
Storage parameters	10 groups
W × H × D	300mmX370mmX260mm
Net Weight	Approx. 19kg
Electrical Parameters	2000w

Optional Guide

Container types



Polycarbonate container (PC), transparent and scratch-resistant, suitable for soft, tough, elastic, fibrous, as well as watery, oily and fat-containing samples to be crushed, can be autoclaved at high temperatures (recommended below 120 °C).

Stainless steel containers, suitable for handling soft, medium-hard, tough and water-containing oil and grease-containing samples, especially for handling medium-hard samples, such as grain cereals, nuts, etc., can withstand greater impact. Stainless steel containers can also be autoclaved.



Type of knives



Serrated two-blade knife for samples with high fat content, e.g. meat.

Stainless steel or titanium knife, two-blade knife, upper and lower staggered, increasing the grinding range, improve the crushing efficiency.

Four-blade knife, all stainless steel material can be low-temperature grinding at the same time can further improve the efficiency of crushing.

Type of lids



Normal standard lids for a wide range of applications, suitable for larger sample sizes.



Ordinary gravity top lids ensures that the size of the grinding space always matches the sample volume and can be moved up and down during the grinding process.

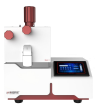


Gravity lids with overflow channel ensures that the size of the grinding space always matches the sample volume and can be moved up and down during the grinding process. Suitable for samples with high water content.

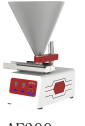


Squeegee for sampling and cleaning sticky samples.

Milling Series

 AM100S Vibratory Ball Mill	 AM200S Mortar Grinder	 AM300S Cutting Mill	 AM300S Cutting Mill	 AM350 Beater Mill	 AM360 Turbo Mill	 AM400S Planetary Ball Mill
 AM410 Planetary Ball Mill	 AM420 Planetary Ball Mill	 AM500S High Speed Rotary Mill	 AM600S Knife Mill	 AM700 Jaw Crusher	 AM710 Extrusion Crusher	 AM750S Bench Jaw Crusher
 AM800 Disc Mill	 AM800CC Disc Mill	 AM810 Disc Mill	 AM900 Vibratory Disc Mill	 AM950 Vibratory Disc Mill		

Assisting Series

 AF100S 3D Vibratory Sieve Shaker	 AF150 Horizontal Sieve Shaker	 AF200S Sample Automatic Divider	 AF300 Vibratory Feeder
 AF400 Rotating Tube Divider	 AF450 Rotating Sample Divider	 AF500 3D Sample Mixer	 AF510 3D Sample Mixer

Intelligent Series

 AISP1678 / AISP1700 Intelligence Soil Preparation System
 ADVM1001 / ADVM1001CS Vacuum Microwave Drying Series

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