



Innovation Empowers Sample Preparation,
Intelligence Achieves Simplicity



AM350 Beater Mill



蚂蚁源科学仪器（北京）有限公司
ANTS SCIENTIFIC INSTRUMENTS (BEIJING) CO., LTD.

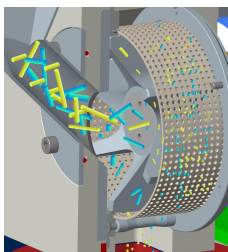


AM350 Beater Mill

The Beater Mill is designed to pulverize dry, brittle, and medium-hard samples, whether for laboratory sample preparation, industrial batch or continuous processing, thanks to a motor with a wide range of torque variations. With a feed size of up to 25 mm, the AM350 pulverizes samples right down to about 100 μm thanks to a powerful drive and a speed of up to 4000 rpm. The AM350 has a feed size of up to 25 mm and a powerful drive and speed of up to 4000 rpm. Unlike other instruments that pulverize hard samples, the Beater Mill provides direct control of the discharge size for increased efficiency. In addition, the Beater Mill is available with different rotor and bottom sieves, making it easy for customers to choose the right instrument for their needs and operating habits.



Working Principle



The sample to be crushed enters the grinding chamber through the feed hopper, and the sample is pre-crushed by the repeated hammering of the rotor, while the sample is also subjected to shear, impact and friction between the rotor and the dentate cutting bars and bottom sieves, which crushes the sample to smaller particles. When the diameter of the sample particles is smaller than the size of the holes on the sieve, these small particles will fall into the collection container below, thus realizing the collection of samples.

Performance Advantages

- ⊙ Suitable for continuous or batch processing of large numbers of samples.
- ⊙ Sample feed size up to 25mm.
- ⊙ Bottom sieve aperture size 0.12mm~10mm optional, can control the final output particle size to 100 μm .
- ⊙ Speed 2000~4000rpm adjustable.
- ⊙ Various forms of rotor are available, adapt to different sample preparations.
- ⊙ Removable grinding sets, easy to clean.
- ⊙ Available with Vibratory Feeder, high degree of automation.
- ⊙ Can be connected to the cyclone separator, improve air flow, cooling samples and grinding tools, improve sample preparation efficiency.
- ⊙ Collection device can be connected to a ring filter, more convenient to clean the dust. Motor quick brake and safety lock device.
- ⊙ Host and stand can be separated for easy transportation.
- ⊙ Easy to move with casters.

Technical Information

Technical parameter	AM350 Beater Mill
Feed material	medium-hard, dryness, brittle
Material feed size	≤25mm (Depends on the nature of the sample and the grinding environment)
Final fineness	approx. 100μm (Depends on the nature of the sample and the grinding environment)
Setting of grinding time	1s ~ 7h59min59s, continuously adjustable
Rotary speed	2000 ~ 4000rpm
Rotor peripheral speed	15.5 ~ 31m/s
Grinding way	dry
Container volume	3L or 5L, 1 ~ 30L available
Material of bottom sieves	stainless steel, titanium
Aperture Size	0.08 ~ 10mm (Available on request)
Material of rotary cutter head	hardened steel, stainless steel, tungsten carbide, zirconium oxide
Type of feed hopper	standard feeder hoppers, vibratory feeder
Type of collection container	cyclone separator, ring filter
Cyclone separator material	glass, stainless steel
Cyclone Separator Volume	glass can be 250ml or 500ml; stainless steel can be 1L, 3L, 5L, other volumes need to be customized.
W × H × D	550mm × 1200mm × 700mm
Net weight	Approx. 60Kg
Electrical supply data	AC220V, 50Hz/60Hz, 2200W



Application



Agriculture



Medicine



Ceramics



Coke



Glass



Materials



Environments



Building materials



Metals



Minerals

Optional Guide

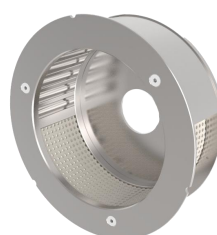
The beater mill consists of a wide range of grinding kits with different types and materials of rotor, dentate cutting bars and bottom sieves with different apertures. Common grinding kit materials include: stainless steel, hardened steel, tungsten carbide (blades only), etc., and sieve materials include stainless steel, titanium, etc..



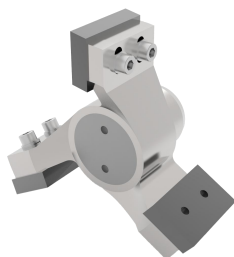
3 teeth ring rotor



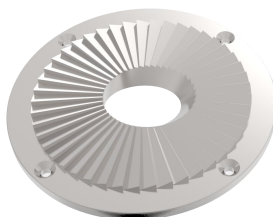
rotor baffle plate,
suitable for 3 teeth ring rotor



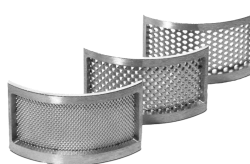
dentate cutting bars



3 teeth beater rotor



rotor baffle plate,
suitable for 3 teeth beater rotor



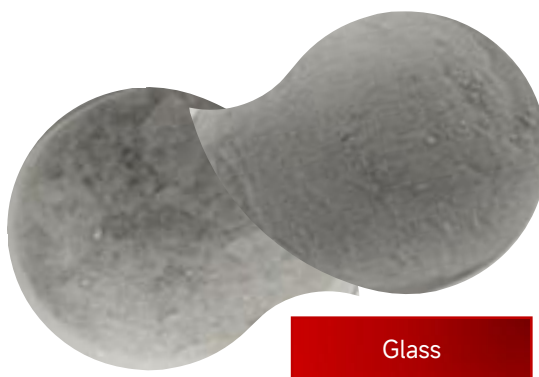
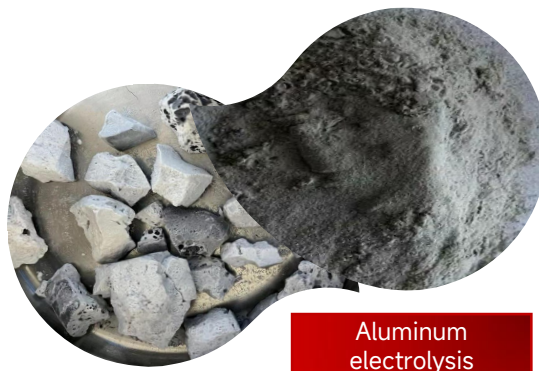
bottom sieves



ring filter



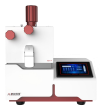
Application Examples



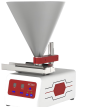


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Milling Series

 AM100S Vibratory Ball Mill	 AM200S Mortar Grinder	 AM300 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	
 ADVVM1001 / ADVVM1001CS Vacuum Microwave Drying Series	

蚂蚁源科学仪器（北京）有限公司

ANTS SCIENTIFIC INSTRUMENTS (BEIJING) CO.,LTD.

地址：北京市经济开发区经海二路29号院1号楼1单元4层

Add: Room 401, Floor 4, Unit 1, Building 1, No. 29, Jinghai 2nd Road, Kechuang
5th Street, Beijing Economic-Technological Development Area

德州生产基地：山东省德州市德城区袁桥镇中元科技创新创业园1#厂房

电话 (Tel) : 010-57791811

传真 (Fax) : 010-67656036

邮箱 (E-mail) : ex-trade1@my-ant.com; ex-trade2@my-ant.com

网址 (Web) : www.my-ant.com



M350.1.2024.7