



Innovation Empowers Sample Preparation,
Intelligence Achieves Simplicity



AM900 Vibratory Disc Mill



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



AM900 Vibratory Disc Mill

AM900 Vibratory Disc Mill is particularly suitable for rapid, loss-free grinding of hard, brittle and fibrous materials to analytical fineness. The AM900 is primarily used for sample preparation for spectral analysis. AM900 even in large volume grinding sets and high speed, it can maintain a smooth and low tempered run. It can achieve 20-100 micron grinding fineness within a few seconds and has good reproducibility.



Working Principle



The grinding kit is fixed to the vibrating chassis by means of a quick locking device. The vibratory plate and the grinding kit move in a horizontal plane in a circular vibratory motion. The vibratory movement of the grinding elements in the grinding jar generates considerable squeezing, impact and friction forces on the sample, which results in a fine grinding of the sample in a short period of time.

Performance Advantages

- ⊙ Extremely short grinding time, XRF or other spectral analysis of fineness requirements (about 100μm).
- ⊙ Reproducible results.
- ⊙ Handle ergonomics design, grinding sets is easy to install.
- ⊙ Quick-action grinding set clamping device, stable planar drive.
- ⊙ Setting speed range 700-1500rpm.
- ⊙ Grinding sets in different sizes and materials.
- ⊙ tungsten carbide, zirconia and agate recognition for automatic speed reduction (Speed limit 1200rpm and 700rpm).
- ⊙ The grinding sets can be slid from the track to the exact position.
- ⊙ LCD touch screen display.
- ⊙ 10 parameter combinations can be stored.
- ⊙ Sealed, noise-insulated grinding chamber.
- ⊙ Maintenance-free.

Technical Information

Technical parameter	AM900 Vibratory Disc Mill
Feed material	medium-hard, hard, brittle, fibrous
Material feed size	≤15mm (Depends on the nature of the sample and the grinding environment)
Final fineness	approx. 20μm (Depends on the nature of the sample and the grinding environment)
Batch size / feed quantity	15 ~ 250 ml
Rotary speed	700 ~ 1500rpm, continuously adjustable
Setting of grinding time	1s ~ 99h59min59s, continuously adjustable
Grinding way	dry, wet
Container volume	50ml/100ml/250ml available
Material of grinding sets	hardened steel, agate, zirconium oxide, tungsten carbide
Storable SOPs	10 groups
W × H × D	810mm × 1220mm × 815mm
Net weight	Approx. 300Kg
Electrical supply data	AC220V, 50Hz/60Hz, 1500W

Application



Ceramics



Glass



Soil



Coke



Mineral
metallurgy



Coals



Soapstone



Electronic product



Concretes



Furnace slag



Cements



Plant materials



Optional Guide



The AM900 Vibratory Disc Mill is available in 6 materials and 3 sizes:

Hardened steel: 50ml, 100ml, 250ml

Tungsten carbide: 50ml, 100ml, 250ml (Maximum speed 1200rpm)

Agate: 50ml, 100ml (Only 700rpm)

Zirconia oxide: 50ml, 100ml (Maximum speed 1200rpm)



The grinding kit for the Vibratory Disc Mill AM900 consists of a grinding jar with a lid and a grinding disc. The grinding kit for 100 ml and 250 ml includes an additional intermediate ring. AM900 Grinding sets feature the following advantages:

- ◎ Safe, non-slip attachment with integral safety devices on cover and base.
- ◎ User-friendly gripping on cover and base.
- ◎ Gap between dish and cover edge for easy opening.
- ◎ Optimal sealing with O-ring.
- ◎ Protective jacket made from stainless steel (for agate, zirconium oxide and tungsten carbide dishes) .
- ◎ Grinding set identification (material and volume).
- ◎ Various materials and volumes available



Application Examples



Battery Materials

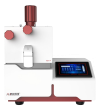


Sphalerite



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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	
 ADVM1001 / ADVM1001CS 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



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