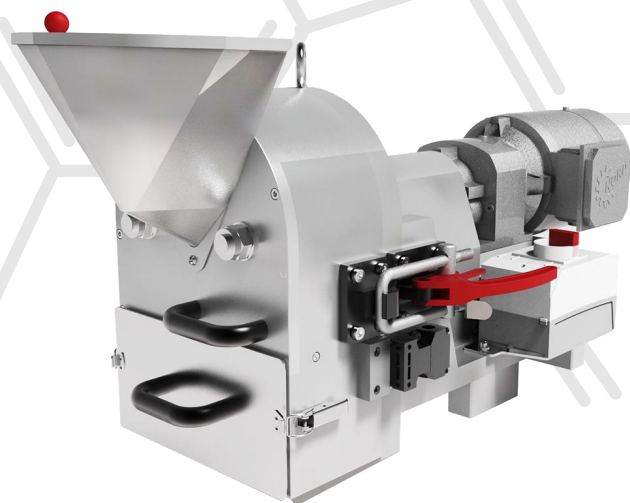




Innovation Empowers Sample Preparation,
Intelligence Achieves Simplicity



AM800 Disc Mill

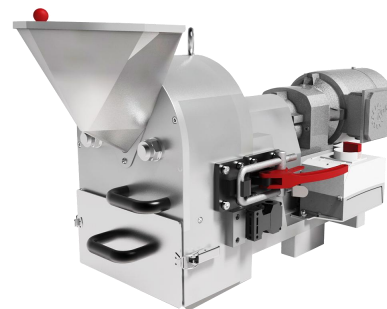


蚂蚁源科学仪器（北京）有限公司
ANTS SCIENTIFIC INSTRUMENTS (BEIJING) CO., LTD.

AM800 Disc Mill

AM800 Disc Mill for pulverizing hard, medium-hard and brittle solid samples. Batch or continuous pre-milling and fine pulverization is possible.

The AM800 disc mill has a feed size of up to 30 mm without pre-crushing; a minimum sample gap of 100 μm to replace some of the grinding instruments; and a linear adjustment of the grinding disc gap to achieve the effect of one machine for two purposes.



Working Principle



The sample enters the dust-proof grinding chamber through the inlet funnel and is then guided between two upright grinding discs. One of the rotating discs rotates against the other fixed disc, continuously capturing the incoming sample and generating the required crushing force and friction. The progressive gearing of the grinding discs allows the sample to be pre-crushed in the discs and then transferred by centrifugal force to the outer edge of the discs for further fine grinding. The finished sample falls through the gap between the two disks into the sample receiving container.

Performance Advantages

- ◎ Reproducible results due to precise adjustment of the gap width of the grinding discs.
- ◎ Grinding discs available in a wide range of materials: hardened steel, manganese steel, tungsten carbide, zirconium oxide, onyx
- ◎ Safe operation by opening detection of the grinding chamber door
- ◎ Optional heavy metal contamination funnel and nylon collection tanks available
- ◎ Grinding chamber door can be opened, equipped with vacuum cleaner interface, easy to clean
- ◎ The grinding chamber is made of heavy metal resistant material, plug and play design for easy cleaning.
- ◎ No dust is generated during the grinding process
- ◎ Gap adjustment: Handwheel adjustment

Application



Environment



Mineral products



Material



Agriculture



Food

Optional Guide



Manganese Steel
Grinding Disc



Sintered Aluminum Oxide
Grinding Disc



Zirconium Oxide
Grinding Disc



Tungsten Carbide
Grinding Disc

The disc material of the disc grinder should be selected to prevent possible interference contamination of the grinding sample by scraping, and we offer five different disc materials for you to choose from:

Material of grinding disc	Mohs hardness 3 ~ 6	Mohs hardness > 6	Prevention of heavy metal pollution
Manganese Steel	✓	-	-
Hardened Steel	✓	-	-
Tungsten Carbide	⊗	✓	⊗
Sintered Aluminum Oxide	⊗	✓	✓
Zirconium Oxide	⊗	✓	✓

PS: ✓ recommend; ⊗ compatibility.

For regular pulverization: e.g. minerals with a Mohs hardness of 3 ~ 6 in hardened steel or manganese steel.

For heavy metal free pulverization: e.g. dental ceramics made of zirconium oxide.

For special conditions: e.g. tungsten carbide for minerals with a Mohs hardness > 6

Technical Information

Technical parameter	AM800 DISC MILL
Feed material	medium-hard, hard, brittle
Material feed size*	≤ 30mm
Final fineness	< 100μm (Depends on the nature of the sample.)
Collector capacity	3L
Gap width setting	0.1-12mm, continuously adjustable.
Grinding speed.	440rpm
W×H×D	410 X 480 X 890mm
Net weight	140kg
Electrical parameters	380V 50Hz·1500W

Application Examples



Clinker



ZnTe



Glass

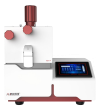
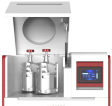


Soil



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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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