



Innovation Empowers Sample Preparation,
Intelligence Achieves Simplicity



AM810 Disc Mill



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

AM810 Disc Mill

AM810 disc mill for hard, medium-hard and brittle solid sample pulverization. Pre-milling and fine pulverization can be performed in batch or continuous mode.

The AM810 disc mill extends the application of traditional disc mills through its compact design: typical feed size up to 20mm without pre-crushing; minimum sample gap of 50 μ m to replace some of the milling instruments; and linear adjustment of the 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 are achieved by precise adjustment of the grinding disc gap width.
- ◎ Grinding discs are available in a wide range of materials: hardened steel, manganese steel, tungsten carbide, zirconium oxide, agate.
- ◎ Safe operation due to opening detection of the grinding chamber door
- ◎ Optional heavy metal contamination funnel and nylon collection chute 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: Push-button digital adjustment.



Application



Environment



Mineral products



Material



Agriculture



Food

Optional Guide



Manganese Steel
Grinding Disc



Sintered Aluminum Oxide
Grinding Disc



Zirconium Oxide
Grinding Disc



Agate
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	AM810 DISC MILL
Feed material	medium-hard, hard, brittle
Material feed size*	≤ 20mm
Final fineness	< 50μm (Depends on the nature of the sample)
Collector capacity	1L or 2L
Gap width setting	0.05-10mm, continuously adjustable
Grinding speed.	200 – 830rpm, continuously adjustable
W×H×D	323 X 553 X 455mm
Net weight	57kg
Electrical parameters	220V 50Hz·1330W

Application Examples



Clinker



ZnTe



Glass

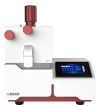


Soil



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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	

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