



Innovation Empowers Sample Preparation,
Intelligence Achieves Simplicity



AM700 Jaw Crusher



蚂蚁源科学仪器（北京）有限公司

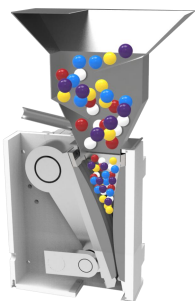
ANTS SCIENTIFIC INSTRUMENTS (BEIJING) CO., LTD.

AM700 Jaw Crusher

The AM700 Jaw Crusher is a pulverizing instrument for large materials and large sample volumes, providing rapid pre-crushing of medium-hard, hard and brittle samples. It can be used for both smaller batch sizes and larger continuous samples. The funnel is designed to prevent splashback and has a vacuum cleaner interface for excellent dust removal. The grinding chamber can open the front door directly for easy cleaning, with adjustable gap and scale display. Zero calibration ensures the repeatability of experimental results.



Working Principle



The sample enters into the crushing chamber through the anti-splash funnel, and the crushing chamber consists of jaw plate and scraping plate. The static jaw plate is fixed, and the movable jaw plate is driven by the eccentric wheel shaft. The sample is crushed by the eccentric reciprocating motion of the jaw plate and falls down under the force of gravity. When the particle size of the sample is smaller than the opening spacing at the lower end of the jaw plate, it will fall into the collection tank, thus completing the sample crushing.

Performance Advantages

- ⊙ High sample throughput and high degree of crushing
- ⊙ Maximum feed size up to 120mm, final output size $D_{90} \leq 2\text{mm}$.
- ⊙ Hopper with anti-spill design and dust removal interface.
- ⊙ Jaw gap is continuously adjustable by means of a scale.
- ⊙ Zero-point calibration to compensate for wear of the jaws
- ⊙ The front door of the crushing chamber can be opened for easy cleaning of the grinding chamber.
- ⊙ Safety locking device
- ⊙ Jaws made of different materials are available

Application



Building materials



Ceramics



Geochemistry



Coals



Clinker



Glass

Technical Information

Technical parameter	AM700 Jaw Crusher
Feed material	medium-hard, hard, brittle
Material feed size*	< 120*90mm (Depends on the nature of the sample.)
Final fineness	D90≤2mm (Depends on the nature of the sample.)
Collector capacity/ Sample throughput	10L 、 30L/300kg/h
Gap width setting	0-40mm,,continuously adjustable.
Gap width display	scale
Zero point adjustment	yes
Dust extraction unit	yes
Grinding speed.	253rpm, customizable
Material of grinding tools	manganese steel, stainless steel, tungsten carbide, zirconium oxide
	148mm
W×H×D	850mm× 1190mm×710mm
Net weight	350kg
Electrical parameters	380V 50Hz·3000W

Optional Guide



Manganese steel



stainless steel



Tungsten Carbide



Zirconia

- Manganese steel

The frequently used jaws thicken the pre-plate's structure during use, causing it to gradually harden over time.

- Stainless steel

Handling of samples that are not excessively hard and avoiding rust during use should be prioritized.

- Tungsten carbide

High abrasion resistance. It is better to handle harder samples, with a Mohs hardness of about 7 being suitable for this material.

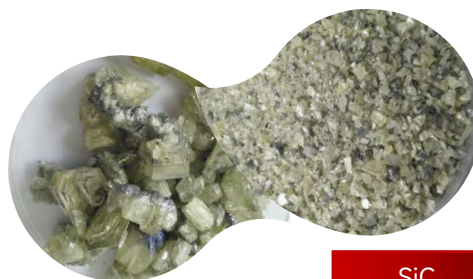
- Zirconium oxide

Prevents heavy metal contamination and minimizes color changes for samples with low hardness during the grinding process.

Application Examples



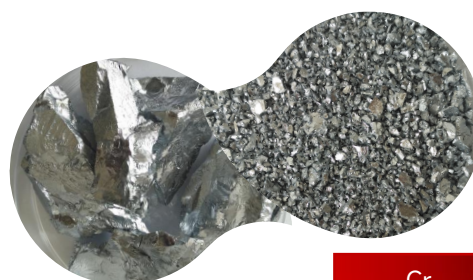
Ge



SiC



Se

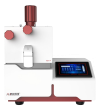
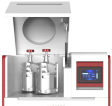


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Milling Series

 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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