



Innovation Empowers Sample Preparation,
Intelligence Achieves Simplicity



AM750S Bench Jaw Crusher



蚂蚁源科学仪器（北京）有限公司

ANTS SCIENTIFIC INSTRUMENTS (BEIJING) CO., LTD.

AM750SBench Jaw Crusher

Bench Jaw Crusher AM750S is a benchtop crusher specially designed for small amount of samples in the laboratory. The compact and small model saves a lot of space and is easy to place. Widely used in the environment, universities and geology, the feed size and processing capacity are relatively reduced compared to the AM700. The funnel dustproof and anti-splashback design ensures that the working environment in the laboratory is not polluted. The jaws are easy to disassemble and easy to clean. The digital display adjusts the gap between two jaws and has the function of zero correction, which prolongs the service life of the jaws. The adjustable rotational speed of the jaws can be applied to different samples and sample quantities, which makes it an ideal sample pre-processing instrument for laboratories.



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

- ◎ Small, compact tabletop design
- ◎ Final discharge size up to $D_{90} < 250\mu\text{m}$
- ◎ Reversible funnel for easy cleaning and splashback prevention.
- ◎ Jaw gap and rotation speed, digital display and adjustable
- ◎ Crushing jaws made of different materials for different applications.
- ◎ Jaws can be dismantled without tools and are easy to clean.
- ◎ Reversible jaws for the direction of movement of the jaws
- ◎ Zero calibration for long service life
- ◎ Hopper and collection chute material protects against heavy metal contamination
- ◎ Large LCD touch screen

Application



Building materials



Ceramics



Coals



Clinker



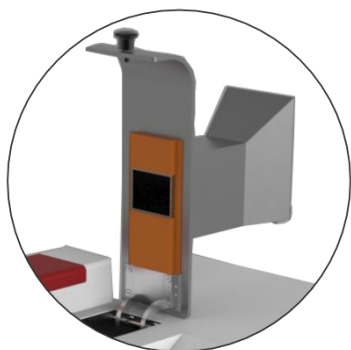
Glass

Technical Information

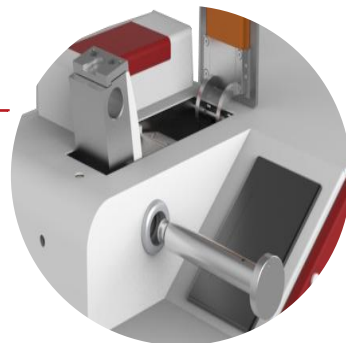
Technical parameter	AM750S Bench Jaw Crusher
Feed material	medium-hard, hard, brittle
Material feed size*	≤ 40mm
Final fineness	< 250μm (Depends on the nature of the sample.)
Collector capacity/ Sample throughput	3L / ≥ 3L/h
Gap width setting	0-12mm, continuously adjustable.
time width setting	Two modes available: continuous operation or time setting 1s-7h59min59s
Storable SOPs	10
Gap width display/Load display	digital/digital
Zero point adjustment	yes
Dust extraction unit	already dust-tight
Grinding speed.	500 – 1000rpm, continuously adjustable
Material of grinding tools	manganese steel, stainless steel, tungsten carbide, zirconium oxide, steel 1.1750 (for heavy-metal free grinding)
W×H×D	420mm× 490mm×595mm
Net weight	80kg
Electrical parameters	220V 50Hz·1100W



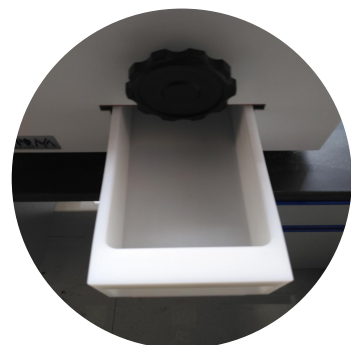
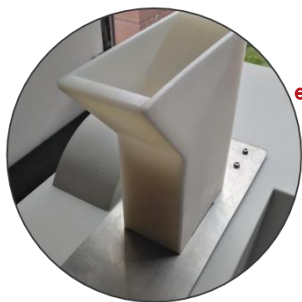
Detailed design



Fold-back hopper can be removed for easy access



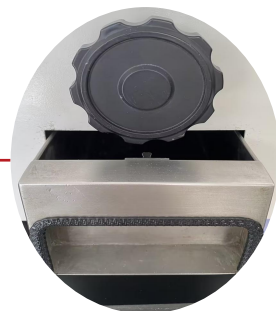
Jaws can be easily removed



Plastic funnels and collection tanks prevent heavy metal contamination.



Large LCD screen



Collection bins are securely fastened



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



Shale Ore



Zinc dross



Soil

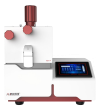


Granite



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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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