



Innovation Empowers Sample Preparation,
Intelligence Achieves Simplicity



AF200S Sample Automatic Divider



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



AF200S Sample Automatic Divider

AF200S sample dividers are rotating dividers. They divide all pourable solids up to 12 mm so accurately that the characteristic composition of each fraction of the sample corresponds exactly to that of the original bulk sample. This very high degree of dividing accuracy and reproducibility is achieved with both fine and coarse materials. The material feed and dividing processes take place automatically, without interruption and without loss of material. The feed amount can range from a few grams up to 5000 ml depending on the sample vessels used. It is possible to produce an individual number of identical fractions for various applications by the repeated division or combination of fractions.



Working Principle



The sample to be split first flows through the sampling hopper on the Vibratory Feeder into the opening of the split crown, which is eccentric in relation to the opening of the split crown. The Vibratory Feeder has an adjustable time and speed, and the width of the split chamber can be selected to accommodate different sample volumes. The splitting process is automatic and the split crown rotates at an adjustable speed of 70-120rpm. If the Sample Automatic Divider rotates at 120rpm and 10-port split crowns are selected, then 1200 samples can be divided per minute, which ensures the accuracy of the sampling effect. Different volumes of vials are available for customers to choose from, making it easy to separate samples into vials for different applications.

Performance Advantages

- ⊙ Extremely high division accuracy, representative and reproducible division for accurate analysis results.
- ⊙ The injection system and the sample separation system are integrated and easy to operate.
- ⊙ Fully automatic design, preset time, speed and injection speed.
- ⊙ The sampling chamber is optional, which is suitable for different sample.
- ⊙ The split crown is made of aluminum material with abrasion resistance and difficult to adsorb samples.
- ⊙ For samples with finer particle size, the cap is protected by dust cap.
- ⊙ Split crown fastener structure design, easy disassembly.
- ⊙ Adaptable bag split crown, direct dispensing.
- ⊙ Adjustable angle of the feeder chamber for more complete feeding of special samples.
- ⊙ The overall design of the instrument is compact, convenient to clean.
- ⊙ Multiple volumes of split sample bottles are available to meet different needs;
- ⊙ Low-noise drive.

Technical Information

Technical parameter	AF200S Sample Automatic Divider
Feed material	bulk materials
Material feed size	≤12mm (Depends on the nature of the sample and the grinding environment)
Batch size / feed quantity	5L
Setting of grinding time	1~ 99min, continuously adjustable
Rotary speed	70 ~ 120rpm (customizable)
Number of divisions	6/8/10
Container volume	30ml/50ml/100ml/250ml/500ml
Type of receiving container	plastic bags, aluminum foil bags, glass collection bottles, plastic collection bottles
W × H × D	600mm × 920mm × 450mm
Net weight	Approx. 42Kg (Includes AF300 Vibratory Feeder)
Electrical supply data	AC220V, 50Hz/60Hz, 100W (AF300 Vibratory Feeder with 50W of power)

Application



Soil



Seed grains



Building materials



Metals



Fertilizer



Chemical Reagents

Optional Guide

It consists of a Vibratory Feeder and a Sample Automatic Divider. Different feeder chambers are available; a wide range of different number of interfaces for split crown and bottles are available to meet different application requirements.

Choice of split crown: 6, 8 or 10 dividing ports, customers can choose according to their needs and applications. The split crown is made of special aluminum or POM material, which is wear-resistant. The interface between the split crown and the bottle can be fastened quickly and easily.

Choice of split sample bottles: Different volumes of split sample bottles are available, 30ml, 50ml, 100ml, 250ml, 500ml.

Split crown



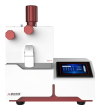
Receiving container





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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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