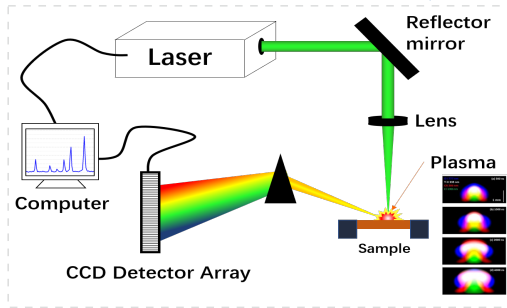


FULL AUTOMATIC MILLING AND PRESSING LIBS ELEMENTAL ANALYSER

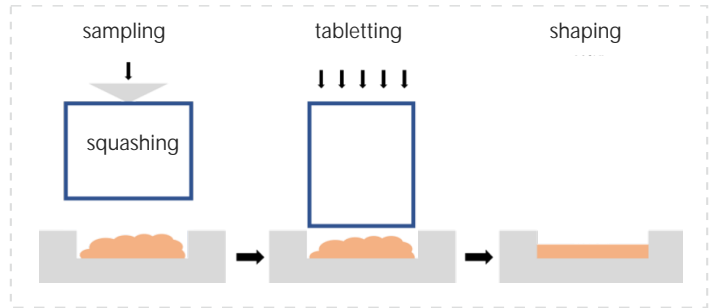


Working Principle

- Atomic emission spectroscopy analysis method that focuses a pulsed laser directly on the surface of the test sample to generate plasma.
- A new spectral analysis technology based on the interaction between laser and matter.



Laser-induced Breakdown Spectrometry-LIBS



Grinding and tablet pressing process

Product Characteristics

- Direct injection of rock cuttings without the need for crushing and compression
- Fast and efficient, complete sample grinding and testing in 1.5 minutes
- Support injection of rock particles with longest edges less than 1.5cm
- Simultaneous single bond analysis of multiple elements: Si, Al, Fe, Ca, Mg, K, Mn, Na, Ti, Ba, Sr, S, Cl, P, V, Ni, Zr, Th, U, etc
- Simple operation, automatic data analysis and processing
- Save effort, worry, and improve efficiency
- Uniform and uniform sample preparation
- Direct qualitative analysis of mudstone, shale, limestone, sandstone, dolomite, gypsum, igneous rock, etc
- Wide range of rock samples, supporting sample preparation of sandstone, shale, dolomite, limestone, gypsum, and igneous rocks

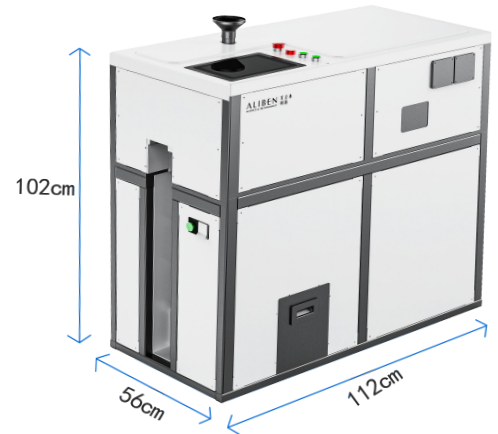
Application Area

Suitable for various fields such as ore analysis, environmental analysis, geological exploration, and gold treatment



Product Parameters

Product parameters	
name	AGT-LIBS
Overall dimensions and weight	Size : 560mmX1120mmX1020mm ; weight : 190Kg
Laser energy	~100mJ
Laser output frequency	0.5-1Hz
Spectral range	180-960nm
spectral resolution	0.10-0.45nm
Detectable Elements	Qualitative and quantitative analysis of elements such as Na, Mg, Al, Si, K, etc
Injection lithology	Sandstone, shale, dolomite, limestone, gypsum, igneous rock
sensitivity	ppm-%
Work rhythm	Test one sample in 1.5 minutes
Injection particle size	Rock samples with longest side less than 1.5cm
Automatic sample table	The product has
Optical imaging of sample surface	The product has
working voltage	AC 220V
work environment	Working temperature -10-40, recommended working humidity<70%

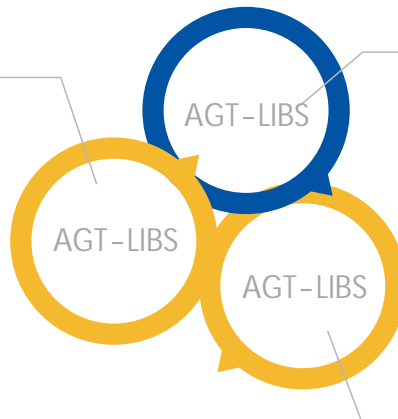


Product Highlights

01.

Fully automatic powder grinding detection 2-In-1

The automatic powder grinding and tablet pressing machine is combined with LIBS instruments, shifting from manual to automation, liberating labor improving detection efficiency. Simultaneously solving the problems of large particle size, poor uniformity, and poor consistency between samples caused by manual grinding and tablet pressing, further improving the reliability of detection results.



02.

Simultaneous analysis of multiple elements

Simultaneous qualitative and quantitative analysis of multiple elements can cover most of the elements in the periodic table

03.

Detection of light elements (Z<12)

Elements such as C, N, O, Li, Be, B can be measured to compensate for the shortcomings of XRF technology

Operation Method

A grind

01. Sample grinding preparation

Set the grinding parameters, AGT-LIBS automatically performs sample grinding, and the finished powder particles are fine, uniform, and consistent.

test B

02. Fast and simple testing process

Set test parameters, wait for the instrument to automatically detect the sample, including grinding time, and data can be obtained within a total of 1.5 minutes.

C data analysis

Automatic data processing, accurate quantitative analysis

The instrument software is equipped with a built-in element quantitative analysis module, which can automatically obtain quantitative results of multiple elements (such as Si, Al, Ca, Mg, Fe, K, Ti, Mn, etc.).



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1st printing in May 2023

