W5 Optical Emission Spectrometers (Arc/Spark-OES)

The 4th Generation High Performance Metal Analyzer

JINYIBO INSTRUMENT

Precise Instruments,Perfect Experience

W5 Metal Analyzer

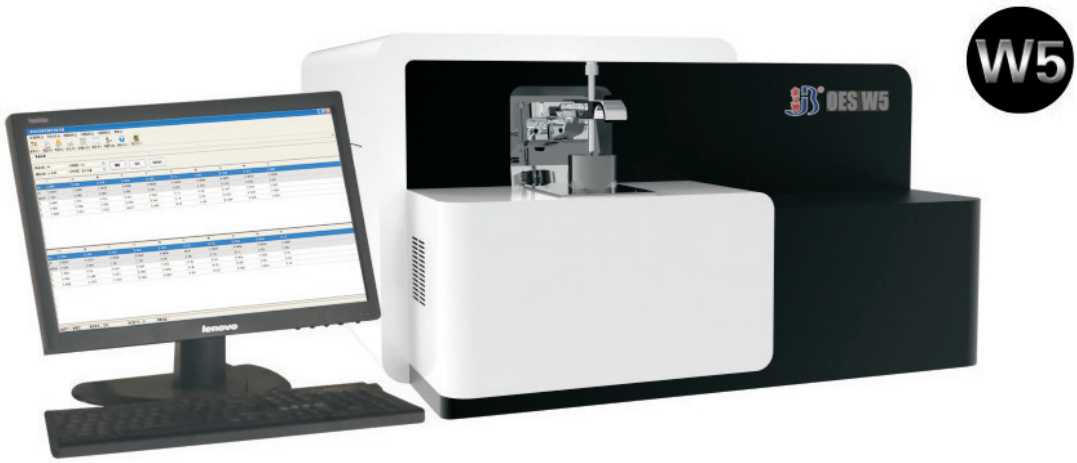
Summary

W5 Optical Emission Spectrometer bring in the advanced technology from the USA. It is the 4th generation Arc/Spark-OES with high performance lowing operating cost for metal analysis and this is the latest research and development of detection equipment. The overall optical design has been enhanced, and with improvements of CMOS technology used to further improve the performance of the W5 while retaining the major benefit of earlier units. The CMOS spectrometer is not only contain the full spectrum characteristics of CCD spectrometer but also the extremely low detection limit for non-metallic elements such as C, S, P, B, As, N etc. The operation is simple and easy to learn. The test result is stable and accuracy. It is a good choice of all common metals for incoming and outgoing product quality control.

Key Applications

- Large steel plants where needs are at around10 PPM levels or elements like C, N, Cr, S, P etc
- Testing laboratories: Commercial testing laboratories, Universities and colleges
- Pure metal applications purity Al, Pb, Zn, Mg etc. – most industrial users
- Regulatory compliance very low LODs to control Pb, Cd, As etc
- Foundries which need a quick analysis near the furnace
- Manufacturing facilities
- Warehouse material identification
- Base: Fe, Cu, Al, Ni, Co, Mg, Ti, Zn, Pb, Sn, Ag, Mn, Cr, etc

W5 Features

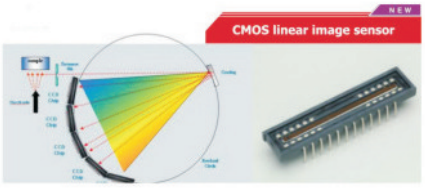


Features

- High performance and reliability with excellent long-term stability
- Full wavelength coverage, customized factory calibration, adding new element without further hardware configuration
- Wavelength range 130nm~800mn, capacity to analyze more elements required
- All types of ferrous and non-ferrous applications
- Singe optical system design, optimized performance for analysis of C, P, S. and N
- Spectrometer temperature control ensuring high precision and stability
- Programmable digitalized spark source, generating optimized discharge waveform for different bases
- Advanced excitation protection and diagnostic system ensuring operating safety
- Argon purge control protecting entrance lens form contaminating, minimizing maintenance
- Professional data capture, improved accuracy by reducing background interference
- Wired/wireless Remote transmission and display provision of analytical results
- Comprehensive diagnostic system including error detection, logging and reporting
- Standardized parameter modification
- Control sample correction function
- Available as desktop or floor model

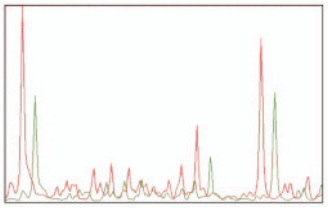
Optical System

- Paschen-Runge optical system with full wavelength coverage
- Effective wavelength range 130nm-800nm
- Multi-CMOS detectors with high resolution
- Single optical system design
- Temperature stabilized compact system



Calibration

- Standard factory calibrated programs
- Freely selected analysis programs
- Customized calibrated programs according to individual requirements

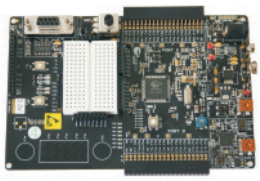


Spark Stand

- Argon flushed and optimized Argon flow
- Easily operated sample clamp adapted to different sample geometrics
- Durable electrode and easy maintenance
- Easy operated small sample clamp
- Auto-detection of Sample Presence

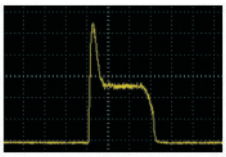
Readout System

- High performance DSP, FPGA and ARM processor with super high speed
- External PC optional
- Ethernet data transmission



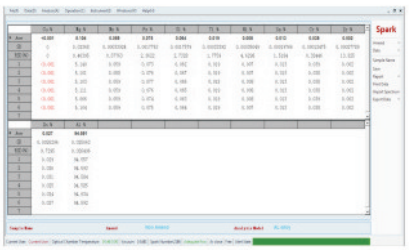
Spark Source

- Programmable pulse digital source
- Optimized electronics and complete excitation protection
- Available spark, arc and combined discharge waveform for different bases
- High-energy pre-spark
- Frequency: 100Hz~1000Hz
- Maximum discharge current:400A



Software

- Customized element view & decimal point position
- Easy used and graphic interface based on Windows
- Automatic diagnosis system
- Database management
- Microsoft Windows operating system



Accessories and Options

- Wire Analysis Adapters
- Small Sample Analysis Kit
- Spectrometer Sample Surface Polishing Machines
- Certified Reference Materials (CRMs)

Electrical and Environmental Requirement

- AC220±20VA, 50HZ (Customized)
- Max 750W in sparking
- Average standby power 100W
- Room temperature: 10℃~35℃
- Relative humidity:20%~85%

Dimension

- 860mm(L)*680mm(W)*438mm(H)
- Net weight: 100kg

Jinyibo is leading manufacturer of Optical Emission Spectrometer, Carbon and Sulfur Analyzer, XRF Spectrometers, ICP Spectrometers.

For now, totally over 6500 sets instrument come in to use globally. Customers include Hyundai Group, South Korea POSCO, DAEWOO, Volkswagen, BMW, Nissan, Shagang Group, SANY, BYD, SINOPEC, GREE, Chinalco, etc.

We focus on innovation of advanced products and manufactured them to be very high quality. Precise Instruments, Perfect Experience are always our top priority. Every day, more than 2.56 enterprises select Jinyibo all over the world.

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